PJ XK1535554658

HOBBS		
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·		
APR	28 2014	

District 1 1625 N. French Dr., Hobbs, NM 88240 District 1] 811 S. First St., Artesia, NM 88210 <u>District 11</u> <sup>17</sup>00 Rio Brazos Road, Aztec, NM 87410 <u>rict 1V</u> ... 0 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

> Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

RECEIVED	Revised August 8, 2011

Subinit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

# **Release Notification and Corrective Action**

	OPERATOR	Initial	Report X Final Repo
Name of Company COG OPERATING LLC	Contact Robert McNeil		
Address 600 West Illinois Avenue, Midland, TX 79701	Telephone No. 432-230-0077		
Facility Name Magnum Pronto State Com #005H	Facility Type Well		
Surface Owner State Mineral C	Jumas	API No.	30-025-40163
Surface Owner State	7WIICI	ALINO.	30-023-40103

# LOCATION OF RELEASE

	Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	0	32	195	32E					Len

Latitude N 32.61052" Longitude W 103.78710°

NATURE OF RELEASE

Type of Release Oil	Volume of Release 15 bbls	Volume Recovered 13 bbls
Source of Release Well head	Date and Hour of Occurrence 10/09/2013	Date and Hour of Discovery 10/09/2013 @ 10:00 am
Was Immediate Notice Given?	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached?	If YES, Volume Impacting the Wa	tercourse.

a Watercourse was impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*

Trash in back pressure valve caused the packing to blow out before the pressure valve. Lowered the pressure on the kill setting.

Describe Area Affected and Cleanup Action Taken.\*

Initially 15 bbls of oil was released. We were able to recover 13 bbls of fluid with a vacuum truck. All free fluid has been recovered. Remediation was completed in accordance with the remediation plan approved by Geoffrey Leking of NMOCD.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: Talat Am		ERVATION	DIVISION
Printed Name: Robert Grubbs Jr.	Approved by Environmental Sp	eciulist:	
Title: Senior Environmental Coordinator	Approval Date:	Expiration [	)ate:
mail Address:   rgrubbs@concho.com     Date:   4/-22-14   Phone:   (432) 661-6601	_ Conditions of Approval!		Attached

\* Attach Additional Sheets If Necessary

# State of New Mexico **Energy Minerals and Natural Resources**

**Oil Conservation Division** 1220 South St. Francis Dr. Santa Fe, NM 87505

HOBBS OCD

Form C-141 Revised October 10, 2003

APR 28 2018 ubmit 2 Copies to appropriate District Office in accordance with Rule 116 on back RECEIVED side of form

# **Release Notification and Corrective Action**

	OPERATOR	🛛 Initial Report	Final Report
Name of Company COG OPERATING LLC	Contact	Robert McNeill	
Address 600 West Illinois Avenue, Midland, TX 79701	Telephone No.	432-230-0077	
Facility Name Magnum Pronto State Com #005H	Facility Type	Weil	

Surface Owner State

Mineral Owner

Lease No. (API#) 30-025-40163

# LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
0	32	195	32E				•	Lea

Latitude 32.61052

Longitude 103.78710

NATURE	COF RELEASE	
Type of Release Oil	Volume of Release 15bbls	Volume Recovered 13bbls
Source of Release Well head	Date and Hour of Occurrence 10-09-2013	Date and Hour of Discovery 10-09-2013 10:00am
Was Immediate Notice Given?	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached?	If YES, Volume Impacting the W	atercourse.
If a Watercourse was Impacted, Describe Fully.*		•
Describe Cause of Problem and Remedial Action Taken.*		
Trash in back pressure valve caused the packing to blow out before the p	ressure valve. Lowered the pressure	on the kill setting.
Describe Area Affected and Cleanup Action Taken.*		
Initially 15bbls of oil was released. We were able to recover 13bbls of fluspill site area in the pasture to delineate any possible contamination from any significant remediation work.		
I hereby certify that the information given above is true and complete to regulations all operators are required to report and/or file certain release r public health or the environment. The acceptance of a C-141 report by th should their operations have failed to adequately investigate and remedia or the environment. In addition, NMOCD acceptance of a C-141 report of federal, state, or local laws and/or regulations.	notifications and perform corrective a ne NMOCD marked as "Final Report te contamination that pose a threat to	actions for releases which may endanger " does not relieve the operator of liability ground water, surface water, human health
	OIL CONSER	VATION DIVISION
		-
Signature:		
Printed Name: Robert Grubbs Jr.	Approved by District Supervisor:	
Title: Senior Environmental Coordinator	Approval Date:	Expiration Date:
E-mail Address: rgrubbs@concho.com	Conditions of Approval:	Attached

10-24-2013 \* Attach Additional Sheets If Necessary

Date:

Phone:

432-661-6601

HOBBS OCD

# SITE INFORMATION Report Type: Remediation Plan

•

•

FEB 2 5 2014

RECEIVED

Site:	Magnum	Pronto State	Com #5H	
Company:	COG Oper			
Section, Township, and Range:	32	195	32E	
Lease Number:	API# 30-0	25-40163	•	,,, <u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>
County:	Lea Count	ty, NM		
GPS:	N 32.6105	57°	W 103.78	719°
Surface Owner:	State			
Mineral Owner:				
Directions:		eft, turn East and		turn South on CR126 and go 12.7 miles to dirt a T, turn South and go 0.3 mile to a Y, go right f
Release Data	مى مەرىپى مەرىپى مەرىپى		va negel v	
Date Released:	10/9/201			
Type of Release:	Oil			
Source of Contamination:	Well head	}		
Fluid Released:	15 bbls			
Fluids Recovered:	13 bbls			
Official Communication:				
Name:	Pat Ellis			Cliff Brunson
Company:	COG Oper	rating LLC		BBC International, Inc.
Address:	550 W. Te	exas Ave., St	e. 1300	1324 W. Marland
РО Вох:				PO Box 805
City, State, Zip Code:	Midland, <sup>-</sup>	TX 79701		Hobbs, NM 88241
Phone Number:	(432) 686	-3023		(575) 397-6388
Fax:	(432) 684	-7137		(575) 397-0397
Email:	pellis@co	nchoresourc	<u>es.com</u>	cbrunson@bbcinternational.cor
Ranking Criteria:				
Depth to Groundwater:	F	Ranking Sco	ore	Site Data
<50 ft.		20		
50-99 ft		10		
>100 ft		0		0
Well Head Protection:		Ranking Sco	ore	Site Data
Water Source <1,000 ft., Private <200		20		
Water Source >1,000 ft., Private >200		0		0
Surface Body of Water:	F	Ranking Sco	ore	Site Data
<200 ft		20		
200 ft 1,000 ft.		10		
>1,000 ft.		0		0

Acceptable Soil RRAL (mg/kg)					
Benzene	Total BTEX	TPH			
10	50	5000			



# **COG Operating LLC**

# Magnum Pronto State Com #5H

(Release Date 10/09/2013)

Unit O, Section 32, Township 19 South, Range 32 East Lea County, New Mexico GPS: N 32.61057° W 103.78719°

**ENVIRONMENTAL SITE INVESTIGATION** 

WORK PLAN REPORT

PERFORMED BY:

BBC INTERNATIONAL, INC. WORLD-WIDE ENVIRONMENTAL SPECIALISTS 1324 W. MARLAND BLVD. P. O. BOX 805 HOBBS, NEW MEXICO 88240 (575) 397-6388 • FAX (575) 397-0397

February 10, 2014

PREPARED FOR:

MR. PAT ELLIS MANAGER, HSE COG OPERATING LLC FASKEN CENTER TOWER II 550 WEST TEXAS AVENUE, SUITE 100 MIDLAND, TEXAS 79701 Mr. Geoffrey Leking Compliance Officer Oil Conservation Division 1625 N French Drive Hobbs, NM 88240

Re: Work plan for COG Operating LLC, Magnum Pronto State Com #5H, Unit O, Section 32, Township 19 South, Range 32 East, Lea County, NM

# 1.0 SITE CHARACTERIZATION

The subject site is located South of Maljamar, NM, in Section 32, Township 19 South, and Range 32 East, Lea County, New Mexico. The GPS coordinates are N  $32.61057^{\circ}$  W  $103.78719^{\circ}$ . The site consists of undeveloped rangeland and petroleum production facilities. On October 9, 2013, a leak occurred at the well head. The spill measured roughly 65 feet in length and 40 feet in width. Approximately 15 bbls of oil were released and 13 bbls of oil were recovered.

A diagram of the location including the sample points can be reviewed in Appendix I of this report. The surface soil is tan or reddish sand with caliche and rock. There is no water source within 1,000 feet of this site. Based on the data from the Lea County Groundwater Trend Map, the depth to groundwater in Section 32, Township 19 South, and Range 32 East is approximately 450 feet. The initial C-141 for the leak is at the end of this report in Appendix III.

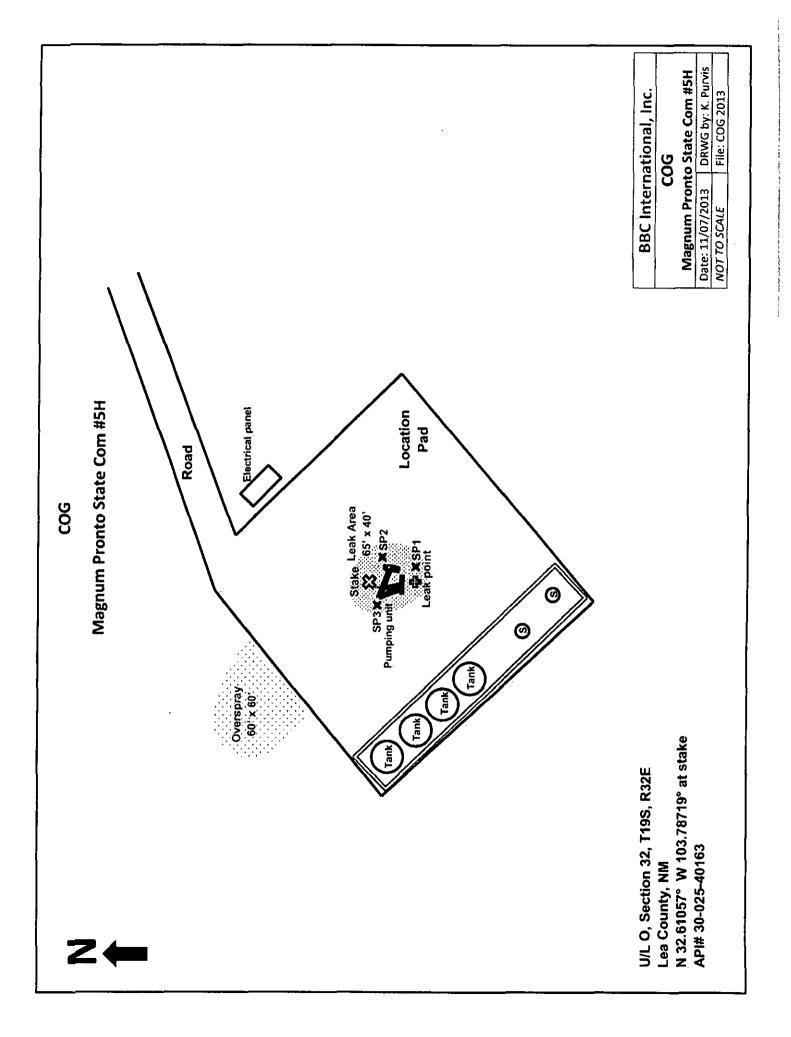
# 2.0 SITE INVESTIGATION ACTIVITIES

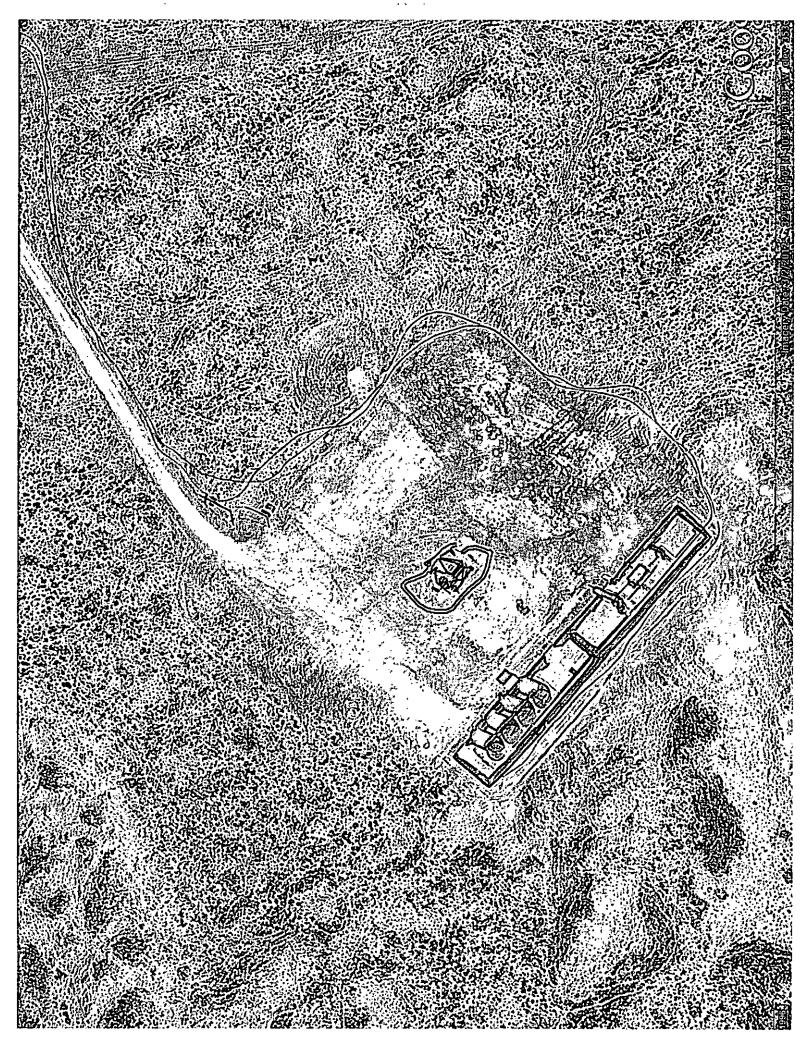
On November 11, 2013, and November 12, 2013, BBC personnel conducted a delineation of the site. The site delineation occurred after initial spill response activities had been conducted by COG. Sample points were taken at the surface and at 1 foot at 3 separate locations called SP1. SP2, and SP3. The samples were delivered to Cardinal Laboratories for and TPH analysis. The BTEX results for SP1 at the surface were as follows: Benzene was below reporting limits, Toluene = 0.142 mg/Kg, Ethylbenzene = 0.259 mg/Kg, Total Xylenes = 0.436 mg/Kg, and Total BTEX was 0.837 mg/Kg. The TPH results for SP1 at the surface were below reporting limits for GRO and 98.4 mg/Kg for DRO. All BTEX and TPH results for SP1 at 1 foot were below reporting limits. At SP2 at the surface, the BTEX results were: Benzene = 0.071 mg/Kg, Toluene = 1.09 mg/Kg, Ethylbenzene = 1.25 mg/Kg, Total Xylenes = 2 mg/Kg, and Total BTEX = 1.42 mg/Kg, TPH results for SP2 at the surface were below reporting limits for GRO and 1,690 mg/Kg for DRO. All BTEX and TPH results for SP2 at 1 foot were below reporting limits. The BTEX results for SP3 at the surface were: Benzene = 0.156 mg/Kg, Toluene = 2.12 mg/Kg, Ethylbenzene = 2.07 mg/Kg, Total Xylenes = 3.2 mg/Kg, and Total BTEX = 7.55 mg/Kg. The TPH results for

SP3 at the surface were 28.2 mg/Kg for GRO and 3,330 mg/Kg for DRO. The BTEX and TPH results for SP3 at 1 foot were below reporting limits except the DRO, which was 20.9 mg/Kg. The results of the analysis are located in Appendix II of this report. The sample point locations can be viewed on the site diagram in Appendix I of this report.

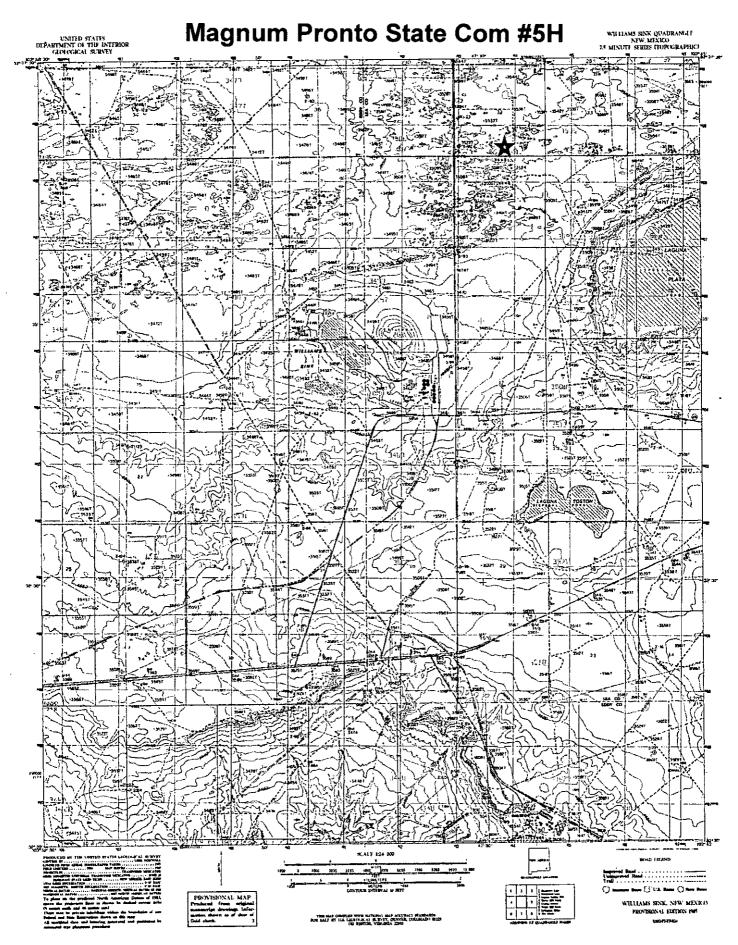
# 3.0 CONCLUSION AND RECOMMENDATION

After review of the analysis and the information gathered during the investigation conducted by BBC International, the following remediation plan is recommended. It is recommended that the entire leak area would require a surface scrape of 6 inches to below ground surface. The excavated soil would be transported to an OCD-approved disposal facility and the site would be backfilled with an appropriate top soil. Once the remediation plan is approved by NMOCD, BBC would carry out the activities, complete a closure report, and submit a final C-141.

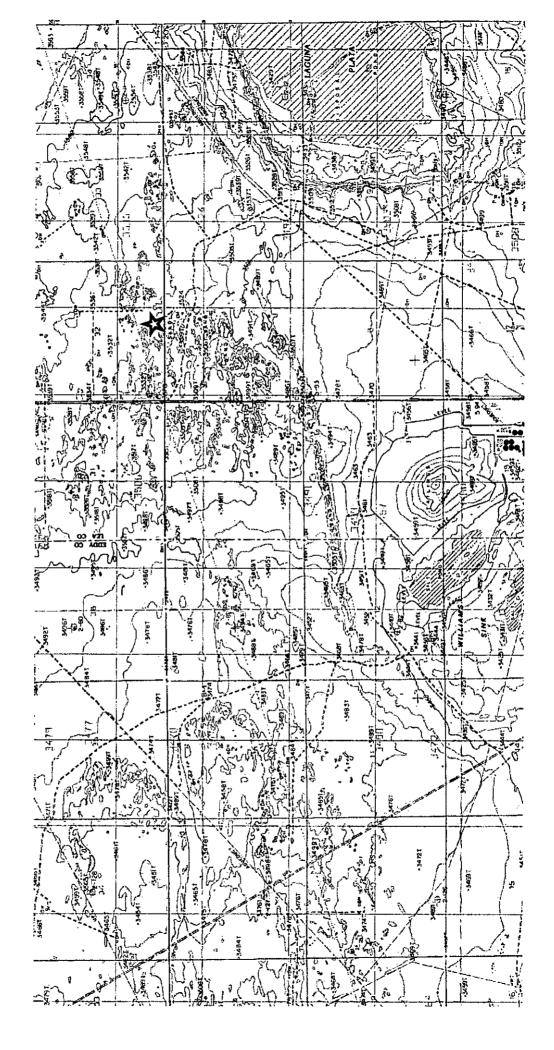




# COG



Magnum Pronto State Com #5H

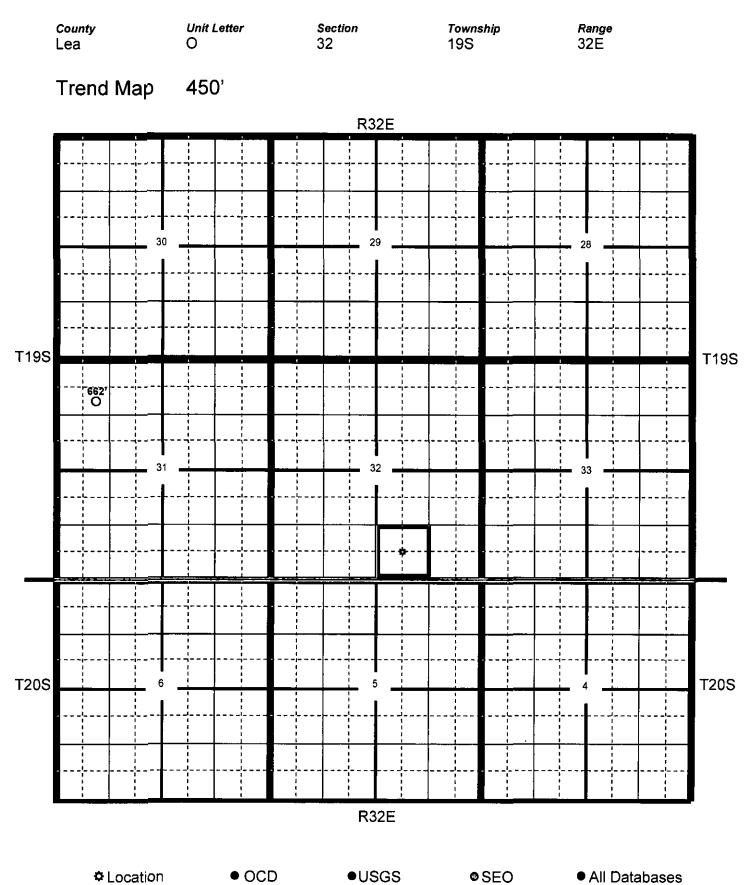


COG



**Groundwater Plot** 

# COG Magnum Pronto State Com #5H





Section Quarters

# COG Magnum Pronto State Com #5H

County Lea	Unit Letter O	Section 32	Township 19S	Range 32E
Trend Map	450'			
	1			2
NW/NW	NE/I	NW	NW/NE	NE/NE
None found	k			
Unit Letter D	Unit Let	ter C	Unit Letter B	Unit Letter A
SWINW	SEA	٧W	SWINE	SENE
Unit Le <mark>t</mark> ter E	Unit Lett	er F	Unit Letter G	Unit Letter H
NW/SW	NE/	SW	NWSE	NE/SE
Unit Letter L	Unit Let		Unit Letter J	Unit Letter I
<u>sw</u> /sw	SEA	SW	SW/SE	SE/SE
Unit Letter M	Unit Lett	er N	Unit Letter O	Unit Letter P
	3			4

Location

# Laboratory Analytical Results Summary COG, Magnum Pronto State Com #5H

r

		Composition	SP1 @ 1	
			SURFACE	
Analyte	Method	Date	11/11/13	11/11/13
			бу/бш	буубш
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		0.142	<0.050
Ethylbenzene	BTEX 8021B		0.259	<0.050
Total Xylenes	BTEX 8021B		0.436	<0.150
Total BTEX	BTEX 8021B		0.837	<0.300
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		98.4	<10.0

		Sample	SP2 @	SP2 (8) 1
Analyte	Method	Date	11/11/13	11/11/13
			р/Ют	- mg/Kg
Benzene	BTEX 8021B		0.071	<0.050
Toluene	BTEX 8021B		1.09	<0.050
Ethylbenzene	BTEX 8021B		1.25	<0.050
<b>Total Xylenes</b>	BTEX 8021B		2	<0.150
Total BTEX	BTEX 8021B		1.42	<0.300
GRO	TPH 8015M		<50.0	<10.0
DRO	TPH 8015M		1690	<10.0

		Sample	SURFACE	1 🕲 tuš
Analyte	Method	Date	11/12/13	11/12/13
			6y/6w	by/6w
Benzene	BTEX 8021B		0.156	<0:050
Toluene	BTEX 8021B		2.12	<0.050
Ethylbenzene	BTEX 8021B		2.07	<0:050
<b>Total Xylenes</b>	BTEX 8021B		3.2	<0.150
Total BTEX	BTEX 8021B		22.55	<0.300
GRO	<b>TPH 8015M</b>		28.2	<10.0
DRO	TPH 8015M		3330	20.9



December 02, 2013

Cliff Brunson BBC International, Inc. P.O. Box 805 Hobbs, NM 88241

RE: MAGNUM PRONTO STATE COM #005 H

Enclosed are the results of analyses for samples received by the laboratory on 11/21/13 11:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated 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 (V1, 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. Keine

Celey D. Keene Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	11/21/2013	Sampling Date:	11/11/2013
Reported:	12/02/2013	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #005 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

# Sample ID: SP 1 @ SURFACE (H302848-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0,050	0.050	11/25/2013	ND	2.10	105	2.00	2.47	
Toluene*	0.142	0.050	11/25/2013	ND	2.07	103	2.00	1.65	
Ethylbenzene*	0.259	0.050	11/25/2013	ND	2.10	105	2.00	3.71	
Total Xylenes*	0.436	0.150	11/25/2013	ND	6.09	101	6.00	3.20	
Total BTEX	0.837	0.300	11/25/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	1119	6 89.4-12	б						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/24/2013	ND	171	85.5	200	5.54	
DRO >C10-C28	98.4	10.0	11/24/2013	ND	161	80.5	200	6.94	
Surrogate: 1-Chlorooctane	84.7 9	65.2-14	0					<u> </u>	
Surrogate: 1-Chlorooctadecane	82.9 9	63.6-15	4						

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's lability and client's exclusive remedy for any claim arising, whether based in contract or bort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed veryed unless, neede in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsklands, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons of themse. Reads that only to the sample service that in our exproduced except in full with writter approval of Cardinal Liboratones.

Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 9



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	11/21/2013	Sampling Date:	11/11/2013
Reported:	12/02/2013	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #005 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

# Sample ID: SP 1 @ 1 FT (H302848-02)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2013	ND	2.10	105	2.00	2.47	
Toluene*	<0.050	0.050	11/25/2013	ND	2.07	103	2.00	1.65	
Ethylbenzene*	<0.050	0.050	11/25/2013	ND	2.10	105	2.00	3.71	
Total Xylenes*	<0.150	0.150	11/25/2013	ND	6.09	101	6.00	3.20	
Total BTEX	<0.300	0.300	11/25/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 9	89.4-12	6						
TPH 8015M	mợ/	kg	Алајузе	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/24/2013	ND	171	85.5	200	5.54	
DRO >C10-C28	<10.0	10.0	11/24/2013	ND	161	80.5	200	6.94	
Surrogate: 1-Chlorooctane	101 \$	65.2-14	0						-
Surrogate: 1-Chlorooctadecane	99.0	% 63.6-15	4						

# **Cardinal Laboratories**

\*=Accredited Analyte

PLEASE NOTE: Labelity and Damages. Cardina's labelity and client's exclusive remedy for any clasm ansing, whether based in contrast or lort, shall be landed to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatlassever shall be deemed weiwed unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be lable for inclental damages, including, which are solved by client for sublets of the applicable service. In no event shall Cardinal be lable for inclental damages, including the services here under by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D.Keine

Celey D. Keene, Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	11/21/2013	Sampling Date:	11/11/2013
Reported:	12/02/2013	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #005 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

# Sample ID: SP 2 @ SURFACE (H302848-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.071	0.050	11/25/2013	ND	2.10	105	2.00	2.47	
Toluene*	1.09	0.050	11/25/2013	ND	2.07	103	2.00	1.65	
Ethylbenzene*	1.25	0.050	11/25/2013	ND	2.10	105	2.00	3.71	
Total Xylenes*	2.00	0.150	11/25/2013	ND	6.09	101	6.00	3.20	
Total BTEX	4.42	0.300	11/25/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	125 %	6 89.4-12	6						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	11/24/2013	ND	171	85.5	200	5,54	
DRO >C10-C28	1690	50.0	11/24/2013	ND	1 <b>6</b> 1	80.5	200	6.94	
Surrogate: 1-Chlorooctane	89.3 9	65.2-14	0		-				
Surrogate: 1-Chlorooctadecane	1179	63.6-15	4						

#### **Cardinal Laboratories**

\*=Accredited Analyte

PLEASE NOTE: Lability and Damages. Cardinal's lability and dient's exclusive remedy for any claim ansing, whether based in contract or tort, shall be landed to the amount paid by cleint for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be lable for incidential or consequential damages, including, without initiation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successions arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager

Page 4 of 9



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	11/21/2013	Sampling Date:	11/11/2013
Reported:	12/02/2013	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #005 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

# Sample ID: SP 2 @ 1 FT (H302848-04)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2013	ND	1.95	97.4	2.00	0.491	
Toluene*	<0.050	0.050	11/25/2013	ND	1.96	97.8	2.00	0.750	
Ethylbenzene*	<0.050	0.050	11/25/2013	ND	1.94	97.1	2.00	2.11	
Total Xylenes*	<0.150	0.150	11/25/2013	ND	5.74	95.7	6.00	2.65	
Total BTEX	<0.300	0.300	11/25/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	112 9	% 89.4-12	6						-
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/24/2013	ND	171	85.5	200	5.54	
DRO >C10-C28	<10.0	10.0	11/24/2013	ND	161	80.5	200	6.94	
Surrogate: 1-Chlorooctane	89.3	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	84.1	% 63.6-15	4						

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\*=Accredited Analyte

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Celey D.Kune

Celey D. Keene, Lab Director/Quality Manager

Page 5 of 9



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	11/21/2013	Sampling Date:	11/12/2013
Reported:	12/02/2013	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #005 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodí Henson
Project Location:	LOCO HILLS, NM		

# Sample ID: SP 3 @ SURFACE (H302848-05)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.156	0.050	11/25/2013	ND	1.95	97.4	2.00	0.491	
Toluene*	2.12	0.050	11/25/2013	ND	1.96	97.8	2.00	0.750	
Ethylbenzene*	2.07	0.050	11/25/2013	ND	1. <b>94</b>	97.1	2.00	2.11	
Total Xylenes*	3.20	0.150	11/25/2013	ND	5.74	95.7	6.00	2.65	
Total BTEX	7.55	0.300	11/25/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIE	118 :	% 89.4-12	6						
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	28.2	10.0	11/24/2013	ND	171	85.5	200	5.54	
DRO >C10-C28	3330	10.0	11/24/2013	ND	161	80.5	200	6.94	
Surrogate: 1-Chlorooctane	109 :	65.2-14	0		<b>.</b>				
Surrogate: 1-Chlorooctadecane	170	63.6-15	4						

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	11/21/2013	Sampling Date:	11/12/2013
Reported:	12/02/2013	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #005 H	Sampling Condition:	Cool & Intact
Project Number:	NÔNE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

# Sample ID: SP 3 @ 1 FT (H302848-06)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2013	ND	1.95	97.4	2.00	0.491	
Toluene*	<0.050	0.050	11/25/2013	ND	1.96	97.8	2.00	0.750	
Ethylbenzene*	<0.050	0.050	11/25/2013	ND	1.94	97.1	2.00	2.11	
Total Xylenes*	<0.150	0.150	11/25/2013	ND	5.74	95.7	6.00	2.65	
Total BTEX	<0.300	0.300	11/25/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 9	89.4-12	6				, <del>u</del> ,		
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/24/2013	ND	171	85.5	200	5.54	
DRO >C10-C28	20.9	10.0	11/24/2013	ND	161	80.5	200	6.94	
Surrogate: 1-Chlorooctane	81.1	% 65.2-14	0						•
Surrogate: 1-Chlorooctadecane	76.7	% 63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager

Page 7 of 9



# **Notes and Definitions**

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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 SM4500CI-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

Delivered By- Sampler - UPS - † Cardinal c	Refunduished By	analyses. At claims includes service. In no event strait Co affiliates or successors arise Relinquished By	PI FAST NOTE: Liabito	6	(1,1)		2	H302848		FOR LAB USE ONLY	Project Location:	Project Name: Mag 12 Um	Project #:	city: Hobbs	Address: P.C	Project Manag	Company Nan	() ()
Delivered By: (Circle One) Sample condition CHEC   Sampler - UPS - Bus - Other: 5.6 Cool, Macy Integer Inte		g those for negligence and any other or relinal be liable for incidental or conseq goul of or related to the performance of	Harrison Catholic Indiana Indiana	20	Sp3@ Purface /	0590	SPIC Surface			Convy Kitty	n: Loco 14:115	Proxto			P.O. Box 805	Project Manager: Cliff Brunson	Company Name: XBBC International, Inc.	<b>RDINAL LABORATORIES</b> 101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476
ges. Please fax written cha	Received	nuse whatsower shell be deemed waked unless ma cented damages, including without limitation, trained of services becauter by Canthes, manufaces of the service backwarder by Canthes, manufaces of the Dartie : ) Darte		N	6 G 12 F	2  2   	602	# CONTAI GROUND WASTEW	NERS WATER			State com # 405 H	Project Owner: CO6				C.	<b>TORIES</b> s, NM 88240 5) 393-2476
Sample Condition CHECKE Cool, Miant Pres Pres No Ves I vo S05-393-2446	Hense			X				SOIL OIL SLUDGE OTHER : ACID/BAS ICE / COO OTHER :		MATRIX PRESERV.	Phone #:	State:	City:	Attn	Company:	P.O. #:		
	REMARKS	fruil willhin 30 days after completion of the apptic of profile incurred by down, its subsidianes, of the above stated mesons or offmeries. Physical Physical PhysicaPhysicaPhysicaPhysicaPhysicaPhysicaPhysicaPhysicaPhysicaPhysica			11-12-13 10:05		11-11-13 11-00			SAMPLING		Zip:	Me				1779年二、加州市制制制	<u>CHAIN-O</u>
<b>1</b>		Lable						B-7							· .		Ā	CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
		dd'l Phone #:														_	ANALYSIS REQUEST	<u>AND ANALYSI</u>
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	·																	- ) 04

# **Closure Report**

HOBBS OCD

APR 28 2014

	Site Description
Site Name:	Magnum Pronto State Com #5H
Company:	COG Operating LLC
Legal Description:	U/L O, Section 32, T19S, R32E
County:	Lea County, NM
GPS Coordinates:	N 32.61057° W 103.78719°

	Release Data
Date of Release:	10/09/2013
Type of Release:	Oil
Source of Release:	Well head
Volume of Release:	15 bbls
Volume Recovered:	13 bbls

	Remediati	on Specifications
Remediation Parameters:		e the entire leak area to a depth of 6 inches, then with clean soil.
Remediation Activities:	03/31/2014 to	04/01/2014
Plan Sent to OCD: OCD Approval of Plan:	02/25/2014	Email from Cliff Brunson to Geoffrey Leking Verbal approval from Leking to Brunson
Plan Sent to BLM:	n/a	n/a
BLM Approval of Plan:	n/a	n/a

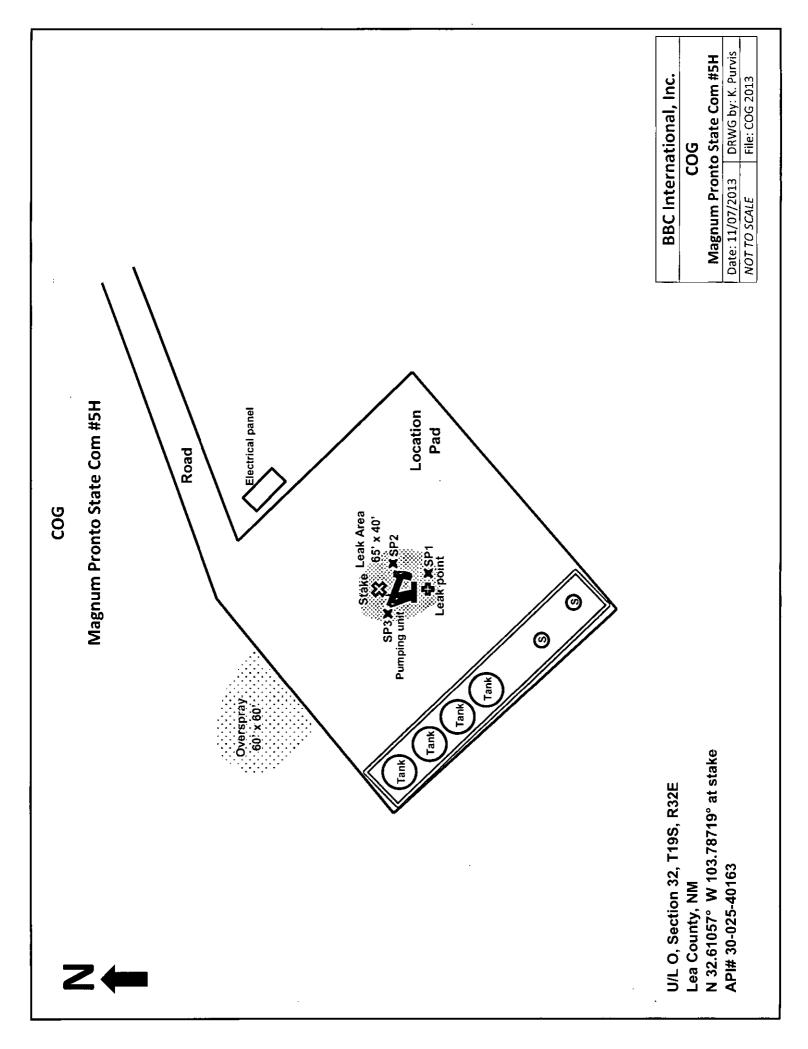
	Supporting Documentation
Initial C-141	Signed 10/24/2013
Final C-141	Signed 04/22/2014
Site Diagram	November 2013
Groundwater Plot	450'
TOPO Maps	November 2013
Lab Summary	11/11/2013-11/12/2013
Lab Analysis	11/11/2013-11/12/2013
Correspondence	Request and approval of remediation plan via email

# **Request for Closure**

Based on the completion of the remediation plan as agreed upon, BBC International requests closure approval from NMOCD.

Cliff Brunson, President of BBC International Inc.

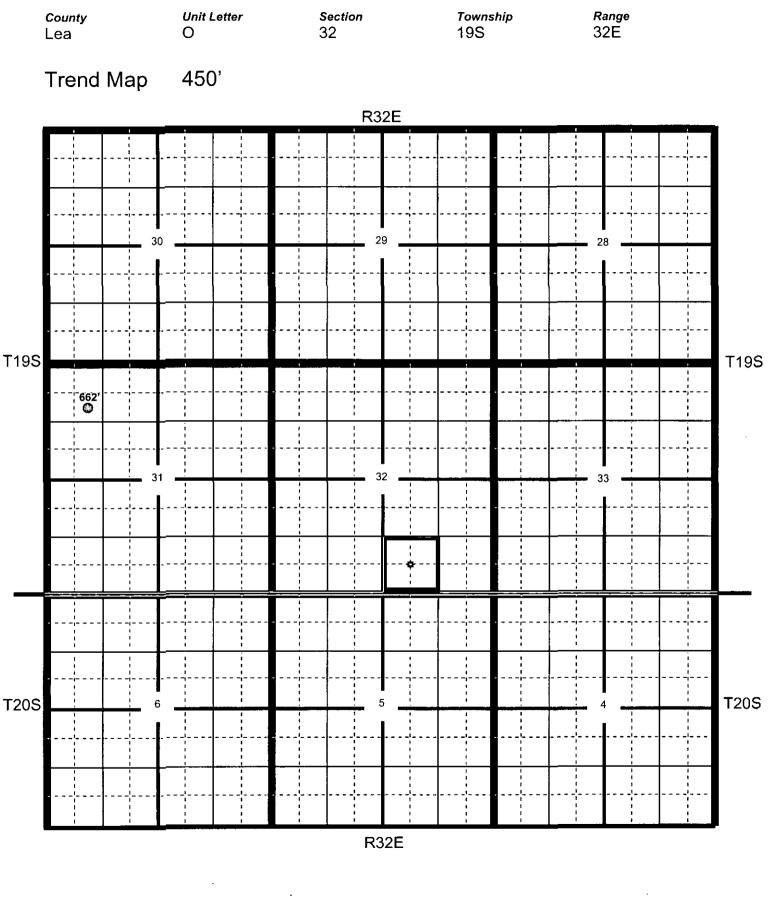
04/25/2014





Groundwater Plot

# COG Magnum Pronto State Com #5H

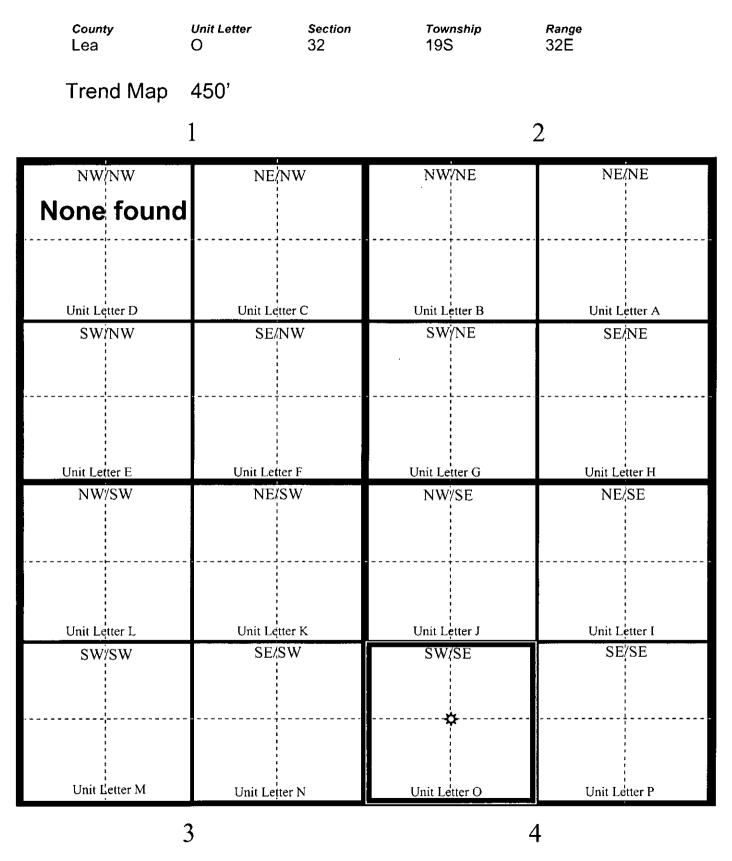


Location



Section Quarters

# COG Magnum Pronto State Com #5H



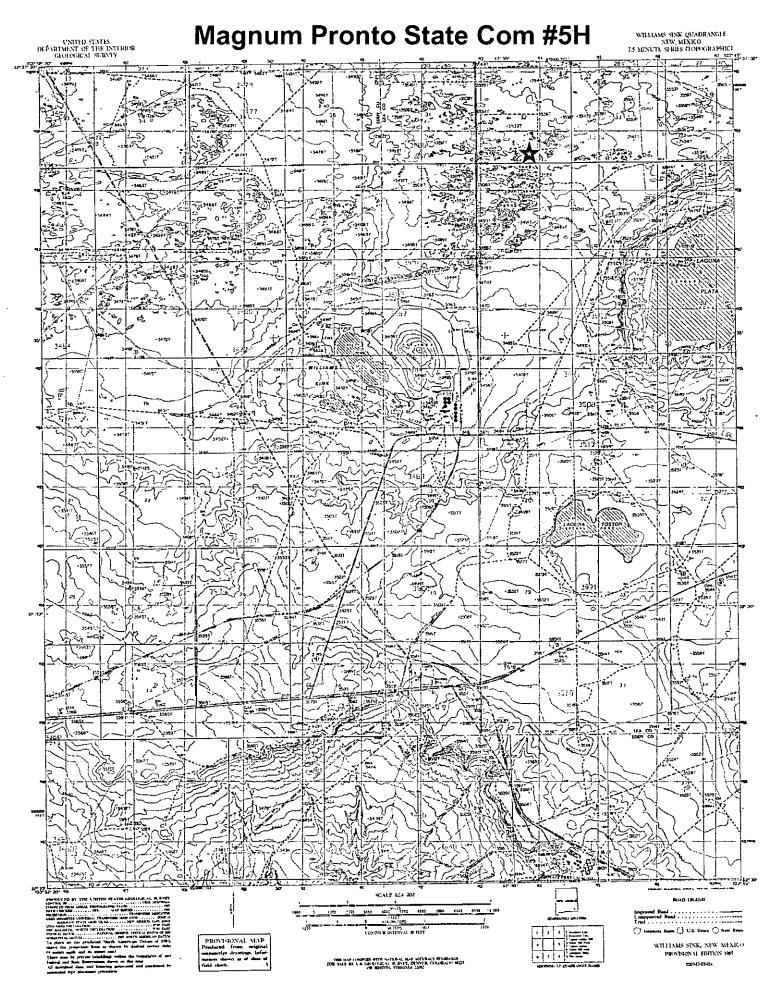
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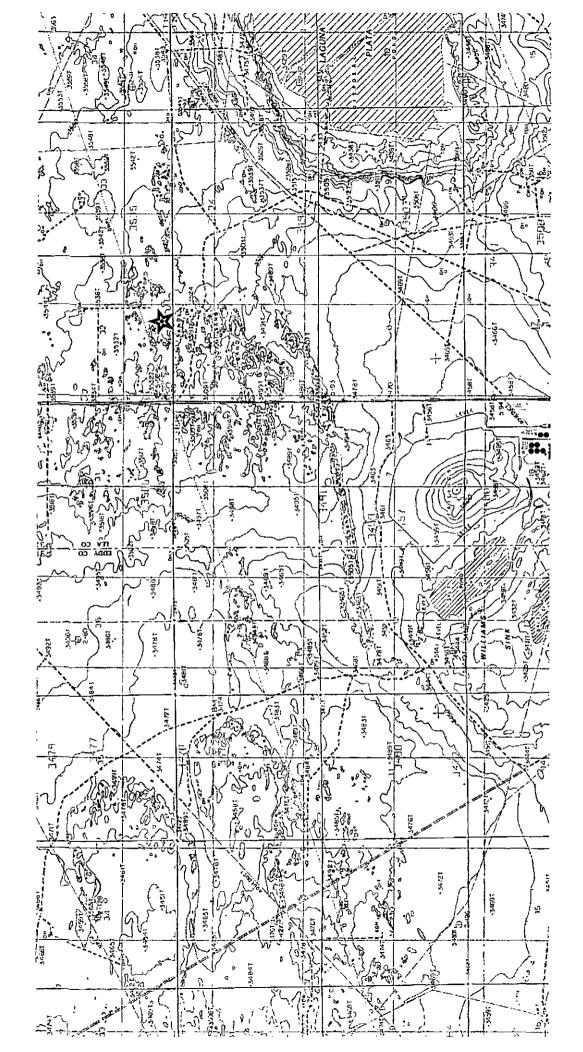
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# COG



COG

# Magnum Pronto State Com #5H



# Laboratory Analytical Results Summary COG, Magnum Pronto State Com #5H

.

		Sample	SP1 @	SP1@1
Analyte	Method	Date	51/11/11	£1/11/L1
			mg/Kg	ву/вш
Benzene	BTEX 8021B		<0.050	<0:050
Toluene	BTEX 8021B		0.142	<0.050.0>
Ethylbenzene	BTEX 8021B		0.259	<0:050
Total Xylenes	BTEX 8021B		0.436	<0.150
Total BTEX	BTEX 8021B		0.837	<0.300
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		98.4	<10.0

Analyte   Method   Date   111113     Analyte   Method   Date   11113   11113     Benzene   BTEX 8021B   0.071   <0.051			Sample	SP2 @ SURFACE	SP2 @1
mg/Kg   mg/Kg     BTEX 8021B   0.071     BTEX 8021B   1.09     zene   BTEX 8021B   1.25     enes   BTEX 8021B   2     enes   BTEX 8021B   2     EX   BTEX 8021B   2     FNB   BTEX 8021B   2     FNB   BTEX 8021B   2     FNB   BTEX 8021B   2     TPH 8015M   <50.0     TPH 8015M   1690	Analyte	Method	Date	11/11/13	11/11/13
BTEX 8021B   0.071     BTEX 8021B   1.09     Zene   BTEX 8021B   1.25     enes   BTEX 8021B   2     enes   BTEX 8021B   2     EX   BTEX 8021B   2     FX   BTEX 8021B   2     FX   BTEX 8021B   2     TPH 8015M   <50.0     TPH 8015M   1690				mg/Kg	mg/Kg
ine   BTEX 8021B   1.09     benzene   BTEX 8021B   1.25     Xylenes   BTEX 8021B   2     BTEX   BTEX 8021B   2     BTEX   BTEX 8021B   1.42     TPH 8015M   <50.0     TPH 8015M   1690	Benzene	BTEX 8021B		0.071	<0.050
benzene   BTEX 8021B   1.25     Xylenes   BTEX 8021B   2     BTEX   BTEX 8021B   1.42     TPH 8015M   <50.0     TPH 8015M   1690	Toluene	BTEX 8021B		1.09	<0.050
Xylenes   BTEX 8021B   2     BTEX   BTEX 8021B   1.42     TPH 8015M   <50.0     TPH 8015M   1690	Ethylbenzene	BTEX 8021B		1.25	<0.050
BTEX   BTEX 8021B   1.42     TPH 8015M   <50.0     TPH 8015M   1690	Total Xylenes	BTEX 8021B		~	<0.150
TPH 8015M <50.0 TPH 8015M 1690	Total BTEX	BTEX 8021B		1.42	<0.300
TPH 8015M 1690	GRO	TPH 8015M		<50.0	<10.0
	DRO	TPH 8015M		1690	<10.0

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		Sample	SP3@	SP3 @1
Analyte	Method	Date	11/12/13	11/12/13
			63/6ш	mg/Kg
Benzene	BTEX 8021B		0.156	<0.050
Toluene	BTEX 8021B		2.12	<0.050
Ethylbenzene	BTEX 8021B		2.07	<0.050
Total Xylenes	BTEX 8021B		3.2	<0.150
Total BTEX	BTEX 8021B		7.55	<0.300
GRO	TPH 8015M		28.2	<10.0
DRO	TPH 8015M		3330	20.9

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December 02, 2013

Cliff Brunson BBC International, Inc. P.O. Box 805 Hobbs, NM 88241

RE: MAGNUM PRONTO STATE COM #005 H

Enclosed are the results of analyses for samples received by the laboratory on 11/21/13 11:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited certif.html.

Cardinal Laboratories is accreditated 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 (V1, 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,

Celeg D. Kune

Celey D. Keene Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	11/21/2013	Sampling Date:	11/11/2013
Reported:	12/02/2013	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #005 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

# Sample ID: SP 1 @ SURFACE (H302848-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2013	ND	2.10	105	2.00	2.47	
Toluene*	0.142	0.050	11/25/2013	ND	2.07	103	2.00	1.65	
Ethylbenzene*	0.259	0.050	11/25/2013	ND	2.10	105	2.00	3.71	
'Total Xylenes*	0.436	0.150	11/25/2013	ND	6.09	101	6.00	3.20	
Total BTEX	0.837	0.300	11/25/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIC		89.4-12	6						
TPH 8015M	mg/	kg	Analyze	d By: MS					

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/24/2013	ND	171	85.5	200	5.54	
DR0 >C10-C28	98.4	10.0	11/24/2013	ND	161	80.5	200	6.94	
Surrogate: 1-Chlorooctane	84.7	% 65.2-14	0						

Surrogate: 1-Chlorooctadecane 82.9 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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Received:	11/21/2013	Sampling Date:	11/11/2013
Reported:	12/02/2013	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #005 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

# Sample ID: SP 1 @ 1 FT (H302848-02)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8S	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2013	ND	2.10	105	2.00	2.47	
Toluene*	<0.050	0.050	11/25/2013	ND	2.07	103	2.00	1.65	
Ethylbenzene*	<0.050	0.050	11/25/2013	ND	2.10	105	2.00	3.71	
Total Xylenes*	<0.150	0.150	11/25/2013	ND	6.09	101	6.00	3.20	
Total BTEX	<0.300	0.300	11/25/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 9	% 89.4-12	6						
TPH 8015M	mg,	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/24/2013	ND	171	85.5	200	5.54	
DRO >C10-C28	<10.0	10.0	11/24/2013	ND	161	80.5	200	6.94	
Surrogate: I-Chlorooctane	101	65.2-14	0	· · · · · ·					<del></del>
Surrogate: 1-Chlorooctadecane	99.0	% 63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager

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BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	11/21/2013	Sampling Date:	11/11/2013
Reported:	12/02/2013	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #005 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

# Sample ID: SP 2 @ SURFACE (H302848-03)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.071	0.050	11/25/2013	ND	2.10	105	2.00	2.47	
Toluene*	1.09	0.050	11/25/2013	ND	2.07	103	2,00	1.65	
Ethylbenzene*	1.25	0.050	11/25/2013	ND	2.10	105	2.00	3.71	
Total Xylenes*	2.00	0.150	11/25/2013	ND	6.09	101	6.00	3.20	
Total BTEX	4.42	0.300	11/25/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIE	125	89.4-12	6		-				
TPH 8015M	mg,	'kg	Analyze	d By: MS		· #* 1000			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	11/24/2013	ND	17 <b>1</b>	85.5	200	5.54	
DRO >C10-C28	1690	50.0	11/24/2013	ND	161	80.5	200	6.94	
Surrogate: 1-Chlorooctane	89.3	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	117 9	63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	11/21/2013	Sampling Date:	11/11/2013
Reported:	12/02/2013	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #005 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

# Sample ID: SP 2 @ 1 FT (H302848-04)

BTEX 8021B	តាg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2013	ND	1.95	97.4	2.00	0.491	
Toluene*	<0.050	0.050	11/25/2013	ND	1.96	97.8	2.00	0.750	
Ethylbenzene*	<0.050	0.050	11/25/2013	ND	1.94	97.1	2.00	2.11	
Total Xylenes*	<0.150	0.150	11/25/2013	ND	5.74	95.7	6.00	2.65	
Total BTEX	<0.300	0.300	11/25/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	112	89.4-12	6						
TPH 8015M	mg,	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/24/2013	ND	171	85.5	200	5.54	
DRO >C10-C28	<10.0	10.0	11/24/2013	ND	161	80.5	200	6.94	
Surrogate: 1-Chlorooctane	89.3	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	8 <del>4</del> .1	% 63.6-15	4						

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# \*=Accredited Analyte

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Celey Di Kune

Celey D. Keene, Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	11/21/2013	Sampling Date:	11/12/2013
Reported:	12/02/2013	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #005 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

# Sample ID: SP 3 @ SURFACE (H302848-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<b>0.156</b> 0.050		11/25/2013	ND	1.95	97.4	2.00	0.491	
Toluene*	<b>2.12</b> 0.050		11/25/2013	ND	1.96	97.8	2.00	0.750	
Ethylbenzene*	2.07	0.050	11/25/2013	ND	1.94	97.1	2.00	2.11	
Total Xylenes*	<b>3.20</b> 0.150		11/25/2013	ND	5.74	95.7	6.00	2.65	
Total BTEX	7.55	0.300	11/25/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIE	118 9	% 89.4-12	6						
TPH 8015M	kg	Analyze	d By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	28.2	10.0	11/24/2013	ND	171	85.5	200	5.54	
DRO >C10-C28	3330	10.0	11/24/2013	ND	161	80.5	200	6.94	
Surrogate: I-Chlorooctane	109 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	170 9	63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager

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BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	11/21/2013	Sampling Date:	11/12/2013
Reported:	12/02/2013	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #005 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

# Sample ID: SP 3 @ 1 FT (H302848-06)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method 8lank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2013	ND	1.95	97.4	2.00	0.491	
Toluene*	<0.050	0.050	11/25/2013	ND	1.96	97.8	2.00	0.750	
Ethylbenzene*	<0.050	0.050	11/25/2013	ND	1.94	97.1	2.00	2.11	
Total Xylenes*	<0.150	0.150	11/25/2013	ND	5.74	95.7	6.00	2.65	
Total BTEX	<0.300	0.300	11/25/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 \$	% 89.4-12	6						
TPH 8015M		kg	Analyze	d By: MS		••• ••			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/24/2013	ND	171	85.5	200	5.54	
DRO >C10-C28	20.9	10.0	11/24/2013	ND	161	80.5	200	6.94	
Surrogate: 1-Chlorooctane	81.1	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	76.7	% 63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



# **Notes and Definitions**

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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 SM4S00CI-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

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