WORLD-WIDE ENVIRONMENTAL SPECIALISTS



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# **DELINEATION WORKPLAN**

COG – PYGMY 27 STATE #003H (Leak Date: 5/6/18)

NMOCD approves of the delineation completed and proposed delineation for **1RP-5051** with these conditions: Confirmation bottom and sidewall samples are required. At least one of the sidewall/ edge samples is to be at the border between the different depths of excavation areas. Please extend the excavation areas to include the proposed white zone areas as no samples were taken in these areas to show non-impact. Dated photo documentation of the remedial activities. Scaled map with the confirmation sample locations in relation to the delineation ample points. Please also identify the release point.

# **RP # 1RP-5051**

This delineation workplan and remediation proposal addresses the release associated with RP # 1RP-5051.

The following information includes:

- 1. Scaled digital site map with spill area demarcated and leak point identified along with sample point locations and areas of remediation at appropriate depths.
- 2. GPS information for sample points and sample methodology
- 3. Depth to groundwater information (i.e., pdf of OSE search results and/or copy of Chevron groundwater trend map).
- 4. Laboratory analysis results summary table and original laboratory analysis reports
- 5. A copy of the initial C-141
- 6. Potentially other pertinent information as necessary for site specific purposes.

# Based on the information included in this package and the NMOCD guidelines, the following remediation is proposed:

COG will excavate the spill area as depicted on the following site diagram. The leak area near SP1 – SP6, SP11 and SP12 (GREEN shade on diagram) will be excavated to a depth of 1.5 feet. The leak area near SP8 – SP10 and SP13 – SP15 (PURPLE shade on diagram) will be excavated to a depth of 6 inches.

Bottom and sidewall confirmation samples will be collected at no greater than 50 ft. intervals. Estimated volume of material to be removed is 900 cubic yards. The remediation will be completed within 90 days of plan approval.

The entire site will then be backfilled with clean soil and revegetated (if warranted) to the standards of the appropriate regulatory agency or private surface owner.

All excavated materials will be disposed of at an NMOCD-approved disposal facility.

# COG, Pygmy 27 State #003H

Leak date: 05/06/2018 Lea County, NM API# 30-025-42068

# Legend

PEASTC:

SP9

SP40

- 1.5 ft Excavation
- Cardinal sample points
- 6 in Excavation
- Sample points
  - Unimpacted area, no remediation activities

400

Google Earth

\* ag

COG, Pygmy 27 State #003H

Sample points

- SP1, N 32.44298 W-103.57163
- SP2, N 32.44313 W-103.57173
- SP3, N 32.44334 W-103.57188
- SP4, N 32.44366 W-103.57207
- SP5, N 32.44394 W-103.57224
- SP6, N 32.44435 W-103.57251
- SP7, N 32.44454 W-103.57260
- SP8, N 32.44464 W-103.57271
- SP9, N 32.44483 W-103.57268
- SP10, N 32.44476 W-103.57296
- SP11, N 32.44493 W-103.57295
- SP12, N 32.44519 W-103.57310
- SP13, N 32.44538 W-103.57301
- SP14, N 32.44522 W-103.57284
- SP15, N 32.44492 W-103.57281
- NORTH, N 32.44545 W-103.57307
- SOUTH, N 32.44289 W-103.57158
- EAST, N 32.44484 W-103.57250
- WEST, N 32.44471 W-103.57305

Form C-141 Page 5 State of New Mexico Oil Conservation Division

Remediation Plan Checklist: Each of the following items must be included in the plan.

Incident ID	
District RP	1RP-5051
Facility ID	
Application ID	

# **Remediation Plan**

<ul> <li>Detailed description of proposed remediation technique</li> <li>Scaled sitemap with GPS coordinates showing delineation points</li> <li>Estimated volume of material to be remediated</li> <li>Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC</li> <li>Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)</li> </ul>								
Deferral Requests Only: Each of the following items must be conf	irmed as part of any request for deferral of remediation.							
Contamination must be in areas immediately under or around pro deconstruction.	duction equipment where remediation could cause a major facility							
Extents of contamination must be fully delineated.								
Contamination does not cause an imminent risk to human health,	the environment, or groundwater.							
rules and regulations all operators are required to report and/or file ce which may endanger public health or the environment. The acceptan- liability should their operations have failed to adequately investigate a surface water, human health or the environment. In addition, OCD ac responsibility for compliance with any other federal, state, or local law Printed Name: Cliff P. Brunson for COG	the of a C-141 report by the OCD does not relieve the operator of and remediate contamination that pose a threat to groundwater, aceptance of a C-141 report does not relieve the operator of vs and/or regulations. Title: President-BBC International, Inc.							
Signature: <u>Cliff P. Brunson</u> email: <u>cbrunson@bbcinternational.com</u>	Date:							
email: cbrunson@bbcinternational.com	Telephone: 575-397-6388							
OCD Only Received by: RECEIVED By CHernandez at 10:48 am, Oct 22,	2018							
Approved Approved with Attached Conditions of A	pproval Denied Deferral Approved							
Signature: 6H	Date: 10/22/2018							



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# New Mexico State Land Office Revegetation and Noxious Weed Management Plan COG – Pygmy 27 State #003H

# **Revegetation Plan**

Disturbed areas associated with the remediation efforts will be reseeded. If after one growing season, the vegetation has not taken hold, seeding may need to be repeated until revegetation is successful, as determined by the State Land Office. The seed will be spread by either using a hand-held broadcaster or tractor-mounted broadcaster and the area will be raked or dragged to cover the seed. If the seed will be broadcast, the pounds per acre will be double over the amount used by drill planting.

The seed mixture will be the appropriate mixture for the specific site and planted in the required amounts of pounds pure live seed (PLS) per acre. Commercially sold seed will be either certified or registered and will not contain primary or secondary noxious weeds.

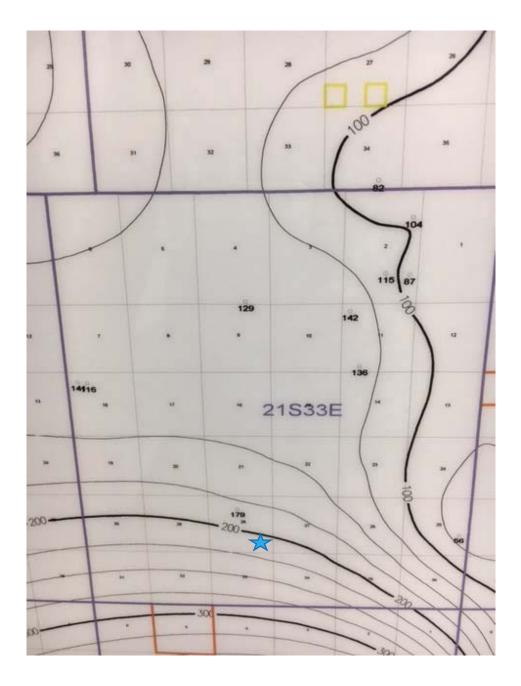
<u>Grasses:</u>			
Sideoats grama	Vaughn, El Reno	4.0	F
Blue grama	Lovington, Hachita	3.0	D
Little bluestem	Pastura, Cimmaron	1.5	F
Green sprangletop	VNS, Southern	1.0	D
Plains bristlegrass	VNS, Southern	1.0	D
<u>Forbs:</u> Firewheel ( <i>Gaillardia</i> )	VNS, Southern	1.0	D
<u>Shrubs:</u>			
Fourwing saltbush	Marana, Santa Rita	1.0	D
Common winterfat	VNS, Southern	0.5	F

Total PLS/acre 13.0

# Noxious Weed Management Plan

The site will be visited to assess the establishment of vegetative growth. Personnel performing the site visit will also look for the presence of noxious weeds at the site as indicated on the New Mexico Noxious Weeds List specified on the United States Department of Agriculture website. If a noxious weed is observed at the site, the NMSLO will be contacted to determine the most effective manner to eradicate it.

# COG, Pygmy 27 State #003H U/L P, Section 28, T21S, R33E Groundwater: 200'





# New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced O=orphaned, C=the file is closed)		· ·					2=NE 3 st to lar	3=SW 4=SE) gest) (NA	) AD83 UTM in me	eters)	(	In feet)	
POD Number	POD Sub- Code basin (	Count		Q 16		Sec	Tws	Rng	х	Y	Distance	-	Depth Water	Water Column
CP 00854 POD1	CP	LE	-				21S		633879	3590223 🌍	577	950	600	350
CP 01356 POD1	CP	LE	4	2	2	33	21S	33E	634560	3590014 🌍	625	1098	555	543
CP 01355 POD1	CP	LE	2	1	3	27	21S	33E	634773	3591061 🌍	649	1192	582	610
CP 01357 POD1	CP	LE	4	3	1	27	21S	33E	634782	3591347 🌍	883	1286	578	708
CP 01411 POD2	CP	LE		1	2	34	21S	33E	635534	3590380 🌍	1230	1125		
CP 01349 POD1	CP	LE	2	3	1	27	21S	33E	635304	3591576 🌍	1389	1188	572	616
CP 00601 POD1	CP	LE		2	1	28	21S	33E	633502	3591791* 🌍	1452	223		
CP 01411 POD1	CP	LE		2	2	34	21S	33E	635968	3590386 🌍	1658	1149		
										Avera	ge Depth to	Water:	577	feet
											Minimum	Depth:	555	feet
											Maximum	Depth:	600	feet

#### UTMNAD83 Radius Search (in meters):

Easting (X): 634323

Northing (Y): 3590593

Radius: 1700

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

Page 1 of 1	

		Pub	lic Land Surv	vey System (PLS	iS)					
•	Q64: 🗸	<b>Q16:</b> SE 🗸	<b>Q4:</b> SE 🗸	Sec: 28 🗸 Tws	215 🗸	Rng: 33E 🗸				
		State I	Plane Coordi	nate System - N	AD27					
0	<b>X:</b> 0 f	t Y: 0	ft	Zone:		$\checkmark$				
	State Plane Coordinate System - NAD83									
0	<b>X:</b> 0 f	t Y: 0	ft	Zone:		$\checkmark$				
0	Longitude (X):	Deg	Degrees/Mir grees: 0 °	nutes/Seconds Minutes: 0		Seconds: 0 "				
	Latitude (Y):	Deg	grees: 0 °	Minutes: 0	T	Seconds: 0 "				
			UTM ·	NAD27						
0	Easting (X	): 0 ~	mtrs	Northing (Y):	0	mtrs Zone:				
			S	JBMIT						
	All Con	version Res	ults are disp	played as <u>NAD 1</u>	983 UTM	Zone 13				
	Easting (X):	634323.0	mtrs	Northing (Y):	3590593.0	mtrs				
	~~ Please keep screen open to copy UTM values for Reports. ~~									

### Laboratory Analytical Results Summary Pygmy 27 State #3H

		0	SP1 @ SURFACE	004 @ 41	
		Sample ID	SURFACE	SP1 @ 1'	SP1 @ 2'
Analyte	Method	Date	6/21/18	6/21/18	6/21/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500CI-B		128	2000	32
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a

	11 11 00 15 101		~10.0	~10.0	n/a
			SP2 @		
		Sample ID	SURFACE	SP2 @ 1'	SP2 @ 2'
Analyte	Method	Date	6/21/18	6/21/18	6/21/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500CI-B		128	2000	32
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a

		Sample ID	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 2'
Analyte	Method	Date	6/21/18	6/21/18	6/21/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500CI-B		144	2040	16
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a

			SP4 @		
		Sample ID	SURFACE	SP4 @ 1'	SP4 @ 2'
Analyte	Method	Date	6/21/18	6/21/18	6/21/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500CI-B		480	<mark>3160</mark>	16
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a

		Sample ID	SP5 @ SURFACE	SP5 @ 1'	SP5 @ 2'
Analyte	Method	Date	6/21/18	6/21/18	6/21/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500CI-B		400	<mark>2760</mark>	16
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a

		Sample ID	SP6 @ SURFACE	SP6 @ 1'	SP6 @ 2'
Amaluta	Method	Sample ID		<b>.</b>	-
Analyte	Method	Date	6/21/18	6/21/18	6/21/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500CI-B		464	2200	32
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a

		Sample ID	SP7 @ SURFACE	SP7 @ 1'
Analyte	Method	Date	6/22/18	6/22/18
			mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
Chloride	SM4500CI-B		10200	48
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0

		Sample ID	SP8 @ SURFACE	SP8 @ 1'
Analyte	Method	Date	6/22/18	6/22/18
			mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
Chloride	SM4500CI-B		8800	48
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0

### Laboratory Analytical Results Summary Pygmy 27 State #3H

			SP9 @		
		Sample ID	SURFACE	SP9 @ 1'	SP9 @ 2'
Analyte	Method	Date	6/22/18	6/22/18	6/22/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500CI-B		<mark>8700</mark>	512	64
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a

			SP10 @		
		Sample ID	SURFACE	SP10 @ 1'	SP10 @ 2'
Analyte	Method	Date	6/22/18	6/22/18	6/22/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500CI-B		8600	448	48
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a

			SP11 @		
		Sample ID	SURFACE	SP11 @ 1'	SP11 @ 2'
Analyte	Method	Date	6/22/18	6/22/18	6/22/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500CI-B		32	2640	48
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		110	<10.0	n/a
EXT DRO	TPH 8015M		15.8	<10.0	n/a

		Sample ID	SP12 @ SURFACE	SP12 @ 1'	SP12 @ 2'
		Sample ID	JUNFACE	3F12@1	3F12@2
Analyte	Method	Date	6/22/18	6/22/18	6/22/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500CI-B		32	2760	32
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		79.4	<10.0	n/a
EXT DRO	TPH 8015M		11.1	<10.0	n/a

		Sample ID	SP13 @ SURFACE	SP13 @ 1'	SP13 @ 2'
Analyte	Method	Date	6/25/18	6/25/18	6/25/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.100	<0.050	n/a
Toluene	BTEX 8021B		0.276	<0.050	n/a
Ethylbenzene	BTEX 8021B		0.317	<0.050	n/a
Total Xylenes	BTEX 8021B		1.88	<0.150	n/a
Total BTEX	BTEX 8021B		2.47	<0.300	n/a
Chloride	SM4500CI-B		9000	48	32
GRO	TPH 8015M		213	<10.0	n/a
DRO	TPH 8015M		52100	<10.0	n/a
EXT DRO	TPH 8015M		11900	<10.0	n/a

			SP14 @	
		Sample ID	SURFACE	SP14 @ 1'
Analyte	Method	Date	6/25/18	6/25/18
			mg/kg	mg/kg
Benzene	BTEX 8021B		<0.100	<0.050
Toluene	BTEX 8021B		0.259	<0.050
Ethylbenzene	BTEX 8021B		0.306	<0.050
Total Xylenes	BTEX 8021B		1.83	<0.150
Total BTEX	BTEX 8021B		2.39	<0.300
Chloride	SM4500CI-B		21200	48
GRO	TPH 8015M		205	<10.0
DRO	TPH 8015M		51700	<10.0
EXT DRO	TPH 8015M		10500	<10.0

			SP15 @	
		Sample ID	SURFACE	SP15@1'
Analyte	Method	Date	6/25/18	6/25/18
			mg/kg	mg/kg
Benzene	BTEX 8021B		<0.100	<0.050
Toluene	BTEX 8021B		0.367	<0.050
Ethylbenzene	BTEX 8021B		0.341	<0.050
Total Xylenes	BTEX 8021B		1.79	<0.150
Total BTEX	BTEX 8021B		2.5	<0.300
Chloride	SM4500CI-B		14600	32
GRO	TPH 8015M		235	<10.0
DRO	TPH 8015M		49700	<10.0
EXT DRO	TPH 8015M		10100	<10.0

			NORTH @	EAST @	WEST @	SOUTH @
Cardinal		Sample ID	SURFACE	SURFACE	SURFACE	SURFACE
Analyte	Method	Date	6/25/18	6/25/18	6/25/18	6/25/18
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500CI-B		<16.0	<16.0	<16.0	<16.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0



July 05, 2018

Cliff Brunson BBC International, Inc. P.O. Box 805

Hobbs, NM 88241

RE: PYGMY 27 STATE #3H

Enclosed are the results of analyses for samples received by the laboratory on 06/29/18 16:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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,

Celecz 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:	06/29/2018	Sampling Date:	06/21/2018
Reported:	07/05/2018	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

#### Sample ID: SP 1 @ SURFACE (H801790-01)

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	07/03/2018	ND	1.60	79.8	2.00	6.67	
Toluene*	<0.050	0.050	07/03/2018	ND	1.65	82.4	2.00	6.86	
Ethylbenzene*	<0.050	0.050	07/03/2018	ND	1.67	83.6	2.00	6.82	
Total Xylenes*	<0.150	0.150	07/03/2018	ND	4.92	82.1	6.00	6.91	
Total BTEX	<0.300	0.300	07/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/03/2018	ND	416	104	400	0.00	
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	07/03/2018	ND	181	90.5	200	4.29	
DRO >C10-C28*	<10.0	10.0	07/03/2018	ND	205	103	200	4.51	
EXT DRO >C28-C36	<10.0	10.0	07/03/2018	ND					
Surrogate: 1-Chlorooctane	80.7	% 41-142	,						
Surrogate: 1-Chlorooctadecane	85.9	% 37.6-14	7						

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#### \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Received:	06/29/2018	Sampling Date:	06/21/2018
Reported:	07/05/2018	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

#### Sample ID: SP 1 @ 1' (H801790-02)

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	07/03/2018	ND	1.60	79.8	2.00	6.67	
Toluene*	<0.050	0.050	07/03/2018	ND	1.65	82.4	2.00	6.86	
Ethylbenzene*	<0.050	0.050	07/03/2018	ND	1.67	83.6	2.00	6.82	
Total Xylenes*	<0.150	0.150	07/03/2018	ND	4.92	82.1	6.00	6.91	
Total BTEX	<0.300	0.300	07/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.7	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	07/03/2018	ND	416	104	400	0.00	
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	07/03/2018	ND	181	90.5	200	4.29	
DRO >C10-C28*	<10.0	10.0	07/03/2018	ND	205	103	200	4.51	
EXT DRO >C28-C36	<10.0	10.0	07/03/2018	ND					
Surrogate: 1-Chlorooctane	87.0	% 41-142	,						
Surrogate: 1-Chlorooctadecane	93.5	% 37.6-14	7						

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

Received:	06/29/2018	Sampling Date:	06/21/2018
Reported:	07/05/2018	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

#### Sample ID: SP 1 @ 2' (H801790-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/03/2018	ND	416	104	400	0.00	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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Received:	06/29/2018	Sampling Date:	06/21/2018
Reported:	07/05/2018	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

#### Sample ID: SP 2 @ SURFACE (H801790-04)

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	07/03/2018	ND	1.60	79.8	2.00	6.67	
Toluene*	<0.050	0.050	07/03/2018	ND	1.65	82.4	2.00	6.86	
Ethylbenzene*	<0.050	0.050	07/03/2018	ND	1.67	83.6	2.00	6.82	
Total Xylenes*	<0.150	0.150	07/03/2018	ND	4.92	82.1	6.00	6.91	
Total BTEX	<0.300	0.300	07/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/03/2018	ND	416	104	400	0.00	
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	07/03/2018	ND	181	90.5	200	4.29	
DRO >C10-C28*	<10.0	10.0	07/03/2018	ND	205	103	200	4.51	
EXT DRO >C28-C36	<10.0	10.0	07/03/2018	ND					
Surrogate: 1-Chlorooctane	87.3	% 41-142	,						
Surrogate: 1-Chlorooctadecane	93.1	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	06/29/2018	Sampling Date:	06/21/2018
Reported:	07/05/2018	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

#### Sample ID: SP 2 @ 1' (H801790-05)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/03/2018	ND	1.60	79.8	2.00	6.67	
Toluene*	<0.050	0.050	07/03/2018	ND	1.65	82.4	2.00	6.86	
Ethylbenzene*	<0.050	0.050	07/03/2018	ND	1.67	83.6	2.00	6.82	
Total Xylenes*	<0.150	0.150	07/03/2018	ND	4.92	82.1	6.00	6.91	
Total BTEX	<0.300	0.300	07/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.8	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	07/03/2018	ND	416	104	400	0.00	
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	07/03/2018	ND	181	90.5	200	4.29	
DRO >C10-C28*	<10.0	10.0	07/03/2018	ND	205	103	200	4.51	
EXT DRO >C28-C36	<10.0	10.0	07/03/2018	ND					
Surrogate: 1-Chlorooctane	94.4	% 41-142	2						
Surrogate: 1-Chlorooctadecane	101 9	% 37.6-14	7						

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Received:	06/29/2018	Sampling Date:	06/21/2018
Reported:	07/05/2018	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

#### Sample ID: SP 2 @ 2' (H801790-06)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/03/2018	ND	416	104	400	0.00	

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Received:	06/29/2018	Sampling Date:	06/21/2018
Reported:	07/05/2018	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

#### Sample ID: SP 3 @ SURFACE (H801790-07)

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	07/03/2018	ND	1.60	79.8	2.00	6.67	
Toluene*	<0.050	0.050	07/03/2018	ND	1.65	82.4	2.00	6.86	
Ethylbenzene*	<0.050	0.050	07/03/2018	ND	1.67	83.6	2.00	6.82	
Total Xylenes*	<0.150	0.150	07/03/2018	ND	4.92	82.1	6.00	6.91	
Total BTEX	<0.300	0.300	07/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/03/2018	ND	432	108	400	0.00	
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	07/03/2018	ND	207	104	200	2.03	
DRO >C10-C28*	<10.0	10.0	07/03/2018	ND	207	104	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	07/03/2018	ND					
Surrogate: 1-Chlorooctane	81.7	% 41-142	,						
Surrogate: 1-Chlorooctadecane	72.4	% 37.6-14	7						

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Received:	06/29/2018	Sampling Date:	06/21/2018
Reported:	07/05/2018	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

#### Sample ID: SP 3 @ 1' (H801790-08)

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	07/03/2018	ND	1.60	79.8	2.00	6.67	
Toluene*	<0.050	0.050	07/03/2018	ND	1.65	82.4	2.00	6.86	
Ethylbenzene*	<0.050	0.050	07/03/2018	ND	1.67	83.6	2.00	6.82	
Total Xylenes*	<0.150	0.150	07/03/2018	ND	4.92	82.1	6.00	6.91	
Total BTEX	<0.300	0.300	07/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.7	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2040	16.0	07/03/2018	ND	432	108	400	0.00	
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	07/03/2018	ND	207	104	200	2.03	
DRO >C10-C28*	<10.0	10.0	07/03/2018	ND	207	104	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	07/03/2018	ND					
Surrogate: 1-Chlorooctane	102 9	% 41-142	,						
Surrogate: 1-Chlorooctadecane	93.4	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	06/29/2018	Sampling Date:	06/21/2018
Reported:	07/05/2018	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

#### Sample ID: SP 3 @ 2' (H801790-09)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/03/2018	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Received:	06/29/2018	Sampling Date:	06/21/2018
Reported:	07/05/2018	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

#### Sample ID: SP 4 @ SURFACE (H801790-10)

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	07/03/2018	ND	1.60	79.8	2.00	6.67	
Toluene*	<0.050	0.050	07/03/2018	ND	1.65	82.4	2.00	6.86	
Ethylbenzene*	<0.050	0.050	07/03/2018	ND	1.67	83.6	2.00	6.82	
Total Xylenes*	<0.150	0.150	07/03/2018	ND	4.92	82.1	6.00	6.91	
Total BTEX	<0.300	0.300	07/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	07/03/2018	ND	432	108	400	0.00	
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	07/03/2018	ND	207	104	200	2.03	
DRO >C10-C28*	<10.0	10.0	07/03/2018	ND	207	104	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	07/03/2018	ND					
Surrogate: 1-Chlorooctane	93.3	% 41-142	2						
Surrogate: 1-Chlorooctadecane	86.9	% 37.6-14	7						

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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:	06/29/2018	Sampling Date:	06/21/2018
Reported:	07/05/2018	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

#### Sample ID: SP 4 @ 1' (H801790-11)

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	07/03/2018	ND	1.60	79.8	2.00	6.67	
Toluene*	<0.050	0.050	07/03/2018	ND	1.65	82.4	2.00	6.86	
Ethylbenzene*	<0.050	0.050	07/03/2018	ND	1.67	83.6	2.00	6.82	
Total Xylenes*	<0.150	0.150	07/03/2018	ND	4.92	82.1	6.00	6.91	
Total BTEX	<0.300	0.300	07/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.6	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3160	16.0	07/03/2018	ND	432	108	400	0.00	
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	07/03/2018	ND	207	104	200	2.03	
DRO >C10-C28*	<10.0	10.0	07/03/2018	ND	207	104	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	07/03/2018	ND					
Surrogate: 1-Chlorooctane	101	% 41-142	2						
Surrogate: 1-Chlorooctadecane	89.3	% 37.6-14	7						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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Received:	06/29/2018	Sampling Date:	06/21/2018
Reported:	07/05/2018	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

#### Sample ID: SP 4 @ 2' (H801790-12)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/03/2018	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Received:	06/29/2018	Sampling Date:	06/21/2018
Reported:	07/05/2018	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

#### Sample ID: SP 5 @ SURFACE (H801790-13)

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	07/03/2018	ND	1.60	79.8	2.00	6.67	
Toluene*	<0.050	0.050	07/03/2018	ND	1.65	82.4	2.00	6.86	
Ethylbenzene*	<0.050	0.050	07/03/2018	ND	1.67	83.6	2.00	6.82	
Total Xylenes*	<0.150	0.150	07/03/2018	ND	4.92	82.1	6.00	6.91	
Total BTEX	<0.300	0.300	07/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.2	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	07/03/2018	ND	432	108	400	0.00	
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	07/03/2018	ND	207	104	200	2.03	
DRO >C10-C28*	<10.0	10.0	07/03/2018	ND	207	104	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	07/03/2018	ND					
Surrogate: 1-Chlorooctane	93.8	% 41-142	,						
Surrogate: 1-Chlorooctadecane	84.9	% 37.6-14	7						

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Celeg 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:	06/29/2018	Sampling Date:	06/21/2018
Reported:	07/05/2018	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

#### Sample ID: SP 5 @ 1' (H801790-14)

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	07/03/2018	ND	1.60	79.8	2.00	6.67	
Toluene*	<0.050	0.050	07/03/2018	ND	1.65	82.4	2.00	6.86	
Ethylbenzene*	<0.050	0.050	07/03/2018	ND	1.67	83.6	2.00	6.82	
Total Xylenes*	<0.150	0.150	07/03/2018	ND	4.92	82.1	6.00	6.91	
Total BTEX	<0.300	0.300	07/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.0	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2760	16.0	07/03/2018	ND	432	108	400	0.00	
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	07/03/2018	ND	207	104	200	2.03	
DRO >C10-C28*	<10.0	10.0	07/03/2018	ND	207	104	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	07/03/2018	ND					
Surrogate: 1-Chlorooctane	101 9	% 41-142	2						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	06/29/2018	Sampling Date:	06/21/2018
Reported:	07/05/2018	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

#### Sample ID: SP 5 @ 2' (H801790-15)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/03/2018	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Received:	06/29/2018	Sampling Date:	06/21/2018
Reported:	07/05/2018	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

#### Sample ID: SP 6 @ SURFACE (H801790-16)

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	07/03/2018	ND	1.60	80.1	2.00	1.05	
Toluene*	<0.050	0.050	07/03/2018	ND	1.66	83.2	2.00	0.836	
Ethylbenzene*	<0.050	0.050	07/03/2018	ND	1.68	84.1	2.00	1.95	
Total Xylenes*	<0.150	0.150	07/03/2018	ND	4.98	83.1	6.00	1.53	
Total BTEX	<0.300	0.300	07/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	69.8-14	2						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	07/03/2018	ND	432	108	400	0.00	
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	07/03/2018	ND	207	104	200	2.03	
DRO >C10-C28*	<10.0	10.0	07/03/2018	ND	207	104	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	07/03/2018	ND					
Surrogate: 1-Chlorooctane	101 9	% 41-142	,						
Surrogate: 1-Chlorooctadecane	89.3	% 37.6-14	7						

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Received:	06/29/2018	Sampling Date:	06/21/2018
Reported:	07/05/2018	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

#### Sample ID: SP 6 @ 1' (H801790-17)

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	07/03/2018	ND	1.60	80.1	2.00	1.05	
Toluene*	<0.050	0.050	07/03/2018	ND	1.66	83.2	2.00	0.836	
Ethylbenzene*	<0.050	0.050	07/03/2018	ND	1.68	84.1	2.00	1.95	
Total Xylenes*	<0.150	0.150	07/03/2018	ND	4.98	83.1	6.00	1.53	
Total BTEX	<0.300	0.300	07/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.6	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	07/03/2018	ND	432	108	400	0.00	
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	07/03/2018	ND	207	104	200	2.03	
DRO >C10-C28*	<10.0	10.0	07/03/2018	ND	207	104	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	07/03/2018	ND					
Surrogate: 1-Chlorooctane	104 9	% 41-142							
Surrogate: 1-Chlorooctadecane	94.0	% 37.6-14	7						

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Received:	06/29/2018	Sampling Date:	06/21/2018
Reported:	07/05/2018	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

#### Sample ID: SP 6 @ 2' (H801790-18)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/03/2018	ND	432	108	400	0.00	

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Received:	06/29/2018	Sampling Date:	06/22/2018
Reported:	07/05/2018	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

#### Sample ID: SP 7 @ SURFACE (H801790-19)

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	07/03/2018	ND	1.60	80.1	2.00	1.05	
Toluene*	<0.050	0.050	07/03/2018	ND	1.66	83.2	2.00	0.836	
Ethylbenzene*	<0.050	0.050	07/03/2018	ND	1.68	84.1	2.00	1.95	
Total Xylenes*	<0.150	0.150	07/03/2018	ND	4.98	83.1	6.00	1.53	
Total BTEX	<0.300	0.300	07/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.6	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10200	16.0	07/03/2018	ND	432	108	400	0.00	
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	07/03/2018	ND	207	104	200	2.03	
DRO >C10-C28*	<10.0	10.0	07/03/2018	ND	207	104	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	07/03/2018	ND					
Surrogate: 1-Chlorooctane	107 9	% 41-142	,						
Surrogate: 1-Chlorooctadecane	103 9	37.6-14	7						

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Received:	06/29/2018	Sampling Date:	06/22/2018
Reported:	07/05/2018	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

#### Sample ID: SP 7 @ 1' (H801790-20)

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	07/03/2018	ND	1.60	80.1	2.00	1.05	
Toluene*	<0.050	0.050	07/03/2018	ND	1.66	83.2	2.00	0.836	
Ethylbenzene*	<0.050	0.050	07/03/2018	ND	1.68	84.1	2.00	1.95	
Total Xylenes*	<0.150	0.150	07/03/2018	ND	4.98	83.1	6.00	1.53	
Total BTEX	<0.300	0.300	07/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.8	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/03/2018	ND	432	108	400	0.00	
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	07/03/2018	ND	207	104	200	2.03	
DRO >C10-C28*	<10.0	10.0	07/03/2018	ND	207	104	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	07/03/2018	ND					
Surrogate: 1-Chlorooctane	99.8	% 41-142	2						
Surrogate: 1-Chlorooctadecane	89.7	% 37.6-14	7						

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

Received:	06/29/2018	Sampling Date:	06/22/2018
Reported:	07/05/2018	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

#### Sample ID: SP 8 @ SURFACE (H801790-21)

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	07/03/2018	ND	1.60	80.1	2.00	1.05	
Toluene*	<0.050	0.050	07/03/2018	ND	1.66	83.2	2.00	0.836	
Ethylbenzene*	<0.050	0.050	07/03/2018	ND	1.68	84.1	2.00	1.95	
Total Xylenes*	<0.150	0.150	07/03/2018	ND	4.98	83.1	6.00	1.53	
Total BTEX	<0.300	0.300	07/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.1	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8800	16.0	07/03/2018	ND	432	108	400	0.00	
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	07/03/2018	ND	207	104	200	2.03	
DRO >C10-C28*	<10.0	10.0	07/03/2018	ND	207	104	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	07/03/2018	ND					
Surrogate: 1-Chlorooctane	89.9	% 41-142	,						
Surrogate: 1-Chlorooctadecane	82.4	% 37.6-14	7						

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Received:	06/29/2018	Sampling Date:	06/22/2018
Reported:	07/05/2018	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

#### Sample ID: SP 8 @ 1' (H801790-22)

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	07/03/2018	ND	1.60	80.1	2.00	1.05	
Toluene*	<0.050	0.050	07/03/2018	ND	1.66	83.2	2.00	0.836	
Ethylbenzene*	<0.050	0.050	07/03/2018	ND	1.68	84.1	2.00	1.95	
Total Xylenes*	<0.150	0.150	07/03/2018	ND	4.98	83.1	6.00	1.53	
Total BTEX	<0.300	0.300	07/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.5	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/03/2018	ND	432	108	400	0.00	
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	07/03/2018	ND	207	104	200	2.03	
DRO >C10-C28*	<10.0	10.0	07/03/2018	ND	207	104	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	07/03/2018	ND					
Surrogate: 1-Chlorooctane	93.0	% 41-142	2						
Surrogate: 1-Chlorooctadecane	82.5	% 37.6-14	7						

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Received:	06/29/2018	Sampling Date:	06/22/2018
Reported:	07/05/2018	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

#### Sample ID: SP 9 @ SURFACE (H801790-23)

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	07/03/2018	ND	1.60	80.1	2.00	1.05	
Toluene*	<0.050	0.050	07/03/2018	ND	1.66	83.2	2.00	0.836	
Ethylbenzene*	<0.050	0.050	07/03/2018	ND	1.68	84.1	2.00	1.95	
Total Xylenes*	<0.150	0.150	07/03/2018	ND	4.98	83.1	6.00	1.53	
Total BTEX	<0.300	0.300	07/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.4	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8700	16.0	07/03/2018	ND	432	108	400	0.00	
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	07/03/2018	ND	207	104	200	2.03	
DRO >C10-C28*	<10.0	10.0	07/03/2018	ND	207	104	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	07/03/2018	ND					
Surrogate: 1-Chlorooctane	91.2	% 41-142							
Surrogate: 1-Chlorooctadecane	83.1	% 37.6-14	7						

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Received:	06/29/2018	Sampling Date:	06/22/2018
Reported:	07/05/2018	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

#### Sample ID: SP 9 @ 1' (H801790-24)

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	07/03/2018	ND	1.60	80.1	2.00	1.05	
Toluene*	<0.050	0.050	07/03/2018	ND	1.66	83.2	2.00	0.836	
Ethylbenzene*	<0.050	0.050	07/03/2018	ND	1.68	84.1	2.00	1.95	
Total Xylenes*	<0.150	0.150	07/03/2018	ND	4.98	83.1	6.00	1.53	
Total BTEX	<0.300	0.300	07/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.4	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	07/03/2018	ND	432	108	400	0.00	
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	07/03/2018	ND	207	104	200	2.03	
DRO >C10-C28*	<10.0	10.0	07/03/2018	ND	207	104	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	07/03/2018	ND					
Surrogate: 1-Chlorooctane	98.7	% 41-142							
Surrogate: 1-Chlorooctadecane	87.0	% 37.6-14	7						

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Received:	06/29/2018	Sampling Date:	06/22/2018
Reported:	07/05/2018	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

#### Sample ID: SP 9 @ 2' (H801790-25)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/03/2018	ND	432	108	400	0.00	

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Received:	06/29/2018	Sampling Date:	06/22/2018
Reported:	07/05/2018	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

#### Sample ID: SP 10 @ SURFACE (H801790-26)

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	07/03/2018	ND	1.60	80.1	2.00	1.05	
Toluene*	<0.050	0.050	07/03/2018	ND	1.66	83.2	2.00	0.836	
Ethylbenzene*	<0.050	0.050	07/03/2018	ND	1.68	84.1	2.00	1.95	
Total Xylenes*	<0.150	0.150	07/03/2018	ND	4.98	83.1	6.00	1.53	
Total BTEX	<0.300	0.300	07/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.2	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8600	16.0	07/03/2018	ND	432	108	400	0.00	
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	07/03/2018	ND	207	104	200	2.03	
DRO >C10-C28*	<10.0	10.0	07/03/2018	ND	207	104	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	07/03/2018	ND					
Surrogate: 1-Chlorooctane	88.7	% 41-142							
Surrogate: 1-Chlorooctadecane	78.9	% 37.6-14	7						

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Celeg 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:	06/29/2018	Sampling Date:	06/22/2018
Reported:	07/05/2018	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

#### Sample ID: SP 10 @ 1' (H801790-27)

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	07/03/2018	ND	1.60	80.1	2.00	1.05	
Toluene*	<0.050	0.050	07/03/2018	ND	1.66	83.2	2.00	0.836	
Ethylbenzene*	<0.050	0.050	07/03/2018	ND	1.68	84.1	2.00	1.95	
Total Xylenes*	<0.150	0.150	07/03/2018	ND	4.98	83.1	6.00	1.53	
Total BTEX	<0.300	0.300	07/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.2	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	07/03/2018	ND	432	108	400	0.00	
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	07/03/2018	ND	207	104	200	2.03	
DRO >C10-C28*	<10.0	10.0	07/03/2018	ND	207	104	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	07/03/2018	ND					
Surrogate: 1-Chlorooctane	105 9	% 41-142	,						
Surrogate: 1-Chlorooctadecane	94.1	% 37.6-14	7						

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Received:	06/29/2018	Sampling Date:	06/22/2018
Reported:	07/05/2018	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

#### Sample ID: SP 10 @ 2' (H801790-28)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/03/2018	ND	432	108	400	0.00	

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Received:	06/29/2018	Sampling Date:	06/22/2018
Reported:	07/05/2018	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

#### Sample ID: SP 11 @ SURFACE (H801790-29)

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	07/03/2018	ND	1.60	80.1	2.00	1.05	
Toluene*	<0.050	0.050	07/03/2018	ND	1.66	83.2	2.00	0.836	
Ethylbenzene*	<0.050	0.050	07/03/2018	ND	1.68	84.1	2.00	1.95	
Total Xylenes*	<0.150	0.150	07/03/2018	ND	4.98	83.1	6.00	1.53	
Total BTEX	<0.300	0.300	07/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.0 9	69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/03/2018	ND	432	108	400	0.00	
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	07/03/2018	ND	207	104	200	2.03	
DRO >C10-C28*	110	10.0	07/03/2018	ND	207	104	200	12.3	
EXT DRO >C28-C36	15.8	10.0	07/03/2018	ND					
Surrogate: 1-Chlorooctane	96.1 9	% 41-142	2						
Surrogate: 1-Chlorooctadecane	94.0 \$	37.6-14	7						

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Received:	06/29/2018	Sampling Date:	06/22/2018
Reported:	07/05/2018	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

#### Sample ID: SP 11 @ 1' (H801790-30)

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	07/03/2018	ND	1.60	80.1	2.00	1.05	
Toluene*	<0.050	0.050	07/03/2018	ND	1.66	83.2	2.00	0.836	
Ethylbenzene*	<0.050	0.050	07/03/2018	ND	1.68	84.1	2.00	1.95	
Total Xylenes*	<0.150	0.150	07/03/2018	ND	4.98	83.1	6.00	1.53	
Total BTEX	<0.300	0.300	07/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.0	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2640	16.0	07/03/2018	ND	432	108	400	0.00	
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	07/03/2018	ND	207	104	200	2.03	
DRO >C10-C28*	<10.0	10.0	07/03/2018	ND	207	104	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	07/03/2018	ND					
Surrogate: 1-Chlorooctane	99.4	% 41-142							
Surrogate: 1-Chlorooctadecane	87.9	% 37.6-14	7						

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Received:	06/29/2018	Sampling Date:	06/22/2018
Reported:	07/05/2018	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

#### Sample ID: SP 11 @ 2' (H801790-31)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/03/2018	ND	432	108	400	0.00	

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Received:	06/29/2018	Sampling Date:	06/22/2018
Reported:	07/05/2018	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

#### Sample ID: SP 12 @ SURFACE (H801790-32)

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	07/03/2018	ND	1.60	80.1	2.00	1.05	
Toluene*	<0.050	0.050	07/03/2018	ND	1.66	83.2	2.00	0.836	
Ethylbenzene*	<0.050	0.050	07/03/2018	ND	1.68	84.1	2.00	1.95	
Total Xylenes*	<0.150	0.150	07/03/2018	ND	4.98	83.1	6.00	1.53	
Total BTEX	<0.300	0.300	07/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.9	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/03/2018	ND	432	108	400	0.00	
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	07/04/2018	ND	207	104	200	2.03	
DRO >C10-C28*	79.4	10.0	07/04/2018	ND	207	104	200	12.3	
EXT DRO >C28-C36	11.1	10.0	07/04/2018	ND					
Surrogate: 1-Chlorooctane	108 9	% 41-142							
Surrogate: 1-Chlorooctadecane	102 9	37.6-14	7						

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Received:	06/29/2018	Sampling Date:	06/22/2018
Reported:	07/05/2018	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

#### Sample ID: SP 12 @ 1' (H801790-33)

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	07/03/2018	ND	1.60	80.1	2.00	1.05	
Toluene*	<0.050	0.050	07/03/2018	ND	1.66	83.2	2.00	0.836	
Ethylbenzene*	<0.050	0.050	07/03/2018	ND	1.68	84.1	2.00	1.95	
Total Xylenes*	<0.150	0.150	07/03/2018	ND	4.98	83.1	6.00	1.53	
Total BTEX	<0.300	0.300	07/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.5	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2760	16.0	07/03/2018	ND	432	108	400	0.00	
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	07/04/2018	ND	207	104	200	2.03	
DRO >C10-C28*	<10.0	10.0	07/04/2018	ND	207	104	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	07/04/2018	ND					
Surrogate: 1-Chlorooctane	97.8	% 41-142	2						
Surrogate: 1-Chlorooctadecane	88.6	% 37.6-14	7						

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Received:	06/29/2018	Sampling Date:	06/22/2018
Reported:	07/05/2018	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

#### Sample ID: SP 12 @ 2' (H801790-34)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/03/2018	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Received:	06/29/2018	Sampling Date:	06/25/2018
Reported:	07/05/2018	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

#### Sample ID: SP 13 @ SURFACE (H801790-35)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	07/05/2018	ND	1.60	80.1	2.00	1.05	
Toluene*	0.276	0.100	07/05/2018	ND	1.66	83.2	2.00	0.836	
Ethylbenzene*	0.317	0.100	07/05/2018	ND	1.68	84.1	2.00	1.95	
Total Xylenes*	1.88	0.300	07/05/2018	ND	4.98	83.1	6.00	1.53	
Total BTEX	2.47	0.600	07/05/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9000	16.0	07/03/2018	ND	432	108	400	0.00	
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*	213	50.0	07/03/2018	ND	190	95.1	200	7.19	S-06
DRO >C10-C28*	52100	50.0	07/03/2018	ND	204	102	200	7.81	1-07, QR-03, S
EXT DRO >C28-C36	11900	50.0	07/03/2018	ND					S-06
Surrogate: 1-Chlorooctane	151 9	6 41-142							
Surrogate: 1-Chlorooctadecane	4300	% 37.6-14	7						

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Received:	06/29/2018	Sampling Date:	06/25/2018
Reported:	07/05/2018	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

#### Sample ID: SP 13 @ 1' (H801790-36)

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	07/03/2018	ND	1.60	80.1	2.00	1.05	
Toluene*	<0.050	0.050	07/03/2018	ND	1.66	83.2	2.00	0.836	
Ethylbenzene*	<0.050	0.050	07/03/2018	ND	1.68	84.1	2.00	1.95	
Total Xylenes*	<0.150	0.150	07/03/2018	ND	4.98	83.1	6.00	1.53	
Total BTEX	<0.300	0.300	07/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.1	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/03/2018	ND	432	108	400	0.00	
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	07/03/2018	ND	190	95.1	200	7.19	
DRO >C10-C28*	<10.0	10.0	07/03/2018	ND	204	102	200	7.81	
EXT DRO >C28-C36	<10.0	10.0	07/03/2018	ND					
Surrogate: 1-Chlorooctane	90.6	% 41-142	2						
Surrogate: 1-Chlorooctadecane	96.3	% 37.6-14	7						

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Received:	06/29/2018	Sampling Date:	06/25/2018
Reported:	07/05/2018	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

#### Sample ID: SP 13 @ 2' (H801790-37)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/03/2018	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Received:	06/29/2018	Sampling Date:	06/25/2018
Reported:	07/05/2018	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

#### Sample ID: SP 14 @ SURFACE (H801790-38)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	07/05/2018	ND	1.60	80.1	2.00	1.05	
Toluene*	0.259	0.100	07/05/2018	ND	1.66	83.2	2.00	0.836	
Ethylbenzene*	0.306	0.100	07/05/2018	ND	1.68	84.1	2.00	1.95	
Total Xylenes*	1.83	0.300	07/05/2018	ND	4.98	83.1	6.00	1.53	
Total BTEX	2.39	0.600	07/05/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	21200	16.0	07/03/2018	ND	432	108	400	0.00	
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*	205	50.0	07/03/2018	ND	190	95.1	200	7.19	S-06
DRO >C10-C28*	51700	50.0	07/03/2018	ND	204	102	200	7.81	S-06
EXT DRO >C28-C36	10500	50.0	07/03/2018	ND					S-06
Surrogate: 1-Chlorooctane	166 9	% 41-142							
Surrogate: 1-Chlorooctadecane	3870	% 37.6-14	7						

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Received:	06/29/2018	Sampling Date:	06/25/2018
Reported:	07/05/2018	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

#### Sample ID: SP 14 @ 1' (H801790-39)

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	07/03/2018	ND	1.60	80.1	2.00	1.05	
Toluene*	<0.050	0.050	07/03/2018	ND	1.66	83.2	2.00	0.836	
Ethylbenzene*	<0.050	0.050	07/03/2018	ND	1.68	84.1	2.00	1.95	
Total Xylenes*	<0.150	0.150	07/03/2018	ND	4.98	83.1	6.00	1.53	
Total BTEX	<0.300	0.300	07/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.6	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/03/2018	ND	432	108	400	0.00	
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	07/03/2018	ND	190	95.1	200	7.19	
DRO >C10-C28*	<10.0	10.0	07/03/2018	ND	204	102	200	7.81	
EXT DRO >C28-C36	<10.0	10.0	07/03/2018	ND					
Surrogate: 1-Chlorooctane	89.3	% 41-142							
Surrogate: 1-Chlorooctadecane	95.3	% 37.6-14	7						

#### **Cardinal Laboratories**

### \*=Accredited Analyte

Celeg 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:	06/29/2018	Sampling Date:	06/25/2018
Reported:	07/05/2018	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

#### Sample ID: SP 15 @ SURFACE (H801790-40)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	07/05/2018	ND	1.60	80.1	2.00	1.05	
Toluene*	0.367	0.100	07/05/2018	ND	1.66	83.2	2.00	0.836	
Ethylbenzene*	0.341	0.100	07/05/2018	ND	1.68	84.1	2.00	1.95	
Total Xylenes*	1.79	0.300	07/05/2018	ND	4.98	83.1	6.00	1.53	
Total BTEX	2.50	0.600	07/05/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14600	16.0	07/03/2018	ND	432	108	400	0.00	
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*	235	50.0	07/03/2018	ND	190	95.1	200	7.19	S-06
DRO >C10-C28*	49700	50.0	07/03/2018	ND	204	102	200	7.81	S-06
EXT DRO >C28-C36	10100	50.0	07/03/2018	ND					S-06
Surrogate: 1-Chlorooctane	171 9	% 41-142	2						
Surrogate: 1-Chlorooctadecane	3740	% 37.6-14	7						

#### Cardinal Laboratories

### \*=Accredited Analyte

Celeg 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:	06/29/2018	Sampling Date:	06/25/2018
Reported:	07/05/2018	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

#### Sample ID: SP 15 @ 1' (H801790-41)

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	07/03/2018	ND	1.60	80.1	2.00	1.05	
Toluene*	<0.050	0.050	07/03/2018	ND	1.66	83.2	2.00	0.836	
Ethylbenzene*	<0.050	0.050	07/03/2018	ND	1.68	84.1	2.00	1.95	
Total Xylenes*	<0.150	0.150	07/03/2018	ND	4.98	83.1	6.00	1.53	
Total BTEX	<0.300	0.300	07/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.6	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/03/2018	ND	432	108	400	0.00	
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	07/03/2018	ND	190	95.1	200	7.19	
DRO >C10-C28*	<10.0	10.0	07/03/2018	ND	204	102	200	7.81	
EXT DRO >C28-C36	<10.0	10.0	07/03/2018	ND					
Surrogate: 1-Chlorooctane	88.0	% 41-142	,						
Surrogate: 1-Chlorooctadecane	95.4	% 37.6-14	7						

#### Cardinal Laboratories

### \*=Accredited Analyte

Celeg 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:	06/29/2018	Sampling Date:	06/25/2018
Reported:	07/05/2018	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

#### Sample ID: N @ SURFACE (H801790-42)

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	07/03/2018	ND	1.80	90.0	2.00	2.37	
Toluene*	<0.050	0.050	07/03/2018	ND	1.79	89.6	2.00	2.92	
Ethylbenzene*	<0.050	0.050	07/03/2018	ND	1.79	89.3	2.00	1.59	
Total Xylenes*	<0.150	0.150	07/03/2018	ND	5.52	92.0	6.00	1.70	
Total BTEX	<0.300	0.300	07/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	128 9	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/03/2018	ND	432	108	400	0.00	
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	07/03/2018	ND	190	95.1	200	7.19	
DRO >C10-C28*	<10.0	10.0	07/03/2018	ND	204	102	200	7.81	
EXT DRO >C28-C36	<10.0	10.0	07/03/2018	ND					
Surrogate: 1-Chlorooctane	94.0	% 41-142	,						
Surrogate: 1-Chlorooctadecane	99.9	% 37.6-14	7						

#### **Cardinal Laboratories**

### \*=Accredited Analyte

Celeg 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:	06/29/2018	Sampling Date:	06/25/2018
Reported:	07/05/2018	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

#### Sample ID: E @ SURFACE (H801790-43)

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	07/03/2018	ND	1.80	90.0	2.00	2.37	
Toluene*	<0.050	0.050	07/03/2018	ND	1.79	89.6	2.00	2.92	
Ethylbenzene*	<0.050	0.050	07/03/2018	ND	1.79	89.3	2.00	1.59	
Total Xylenes*	<0.150	0.150	07/03/2018	ND	5.52	92.0	6.00	1.70	
Total BTEX	<0.300	0.300	07/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	123 9	69.8-14	2						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/03/2018	ND	432	108	400	0.00	
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	07/03/2018	ND	190	95.1	200	7.19	
DRO >C10-C28*	<10.0	10.0	07/03/2018	ND	204	102	200	7.81	
EXT DRO >C28-C36	<10.0	10.0	07/03/2018	ND					
Surrogate: 1-Chlorooctane	99.6	% 41-142	,						
Surrogate: 1-Chlorooctadecane	105 9	% 37.6-14	7						

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Celeg 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:	06/29/2018	Sampling Date:	06/25/2018
Reported:	07/05/2018	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

#### Sample ID: W @ SURFACE (H801790-44)

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	07/03/2018	ND	1.80	90.0	2.00	2.37	
Toluene*	<0.050	0.050	07/03/2018	ND	1.79	89.6	2.00	2.92	
Ethylbenzene*	<0.050	0.050	07/03/2018	ND	1.79	89.3	2.00	1.59	
Total Xylenes*	<0.150	0.150	07/03/2018	ND	5.52	92.0	6.00	1.70	
Total BTEX	<0.300	0.300	07/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	69.8-14	2						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte R		Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/03/2018	ND	432	108	400	0.00	
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	07/03/2018	ND	190	95.1	200	7.19	
DRO >C10-C28*	<10.0	10.0	07/03/2018	ND	204	102	200	7.81	
EXT DRO >C28-C36	<10.0	10.0	07/03/2018	ND					
Surrogate: 1-Chlorooctane	99.4	% 41-142	,						
Surrogate: 1-Chlorooctadecane	107 9	% 37.6-14	7						

#### **Cardinal Laboratories**

### \*=Accredited Analyte

Celeg 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:	06/29/2018	Sampling Date:	06/25/2018
Reported:	07/05/2018	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #3H	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

#### Sample ID: S @ SURFACE (H801790-45)

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	07/03/2018	ND	1.80	90.0	2.00	2.37	
Toluene*	<0.050	0.050	07/03/2018	ND	1.79	89.6	2.00	2.92	
Ethylbenzene*	<0.050	0.050	07/03/2018	ND	1.79	89.3	2.00	1.59	
Total Xylenes*	<0.150	0.150	07/03/2018	ND	5.52	92.0	6.00	1.70	
Total BTEX	<0.300	0.300	07/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	69.8-14	2						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/03/2018	ND	432	108	400	0.00	
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	07/03/2018	ND	190	95.1	200	7.19	
DRO >C10-C28*	<10.0	10.0	07/03/2018	ND	204	102	200	7.81	
EXT DRO >C28-C36	<10.0	10.0	07/03/2018	ND					
Surrogate: 1-Chlorooctane	94.9	% 41-142	,						
Surrogate: 1-Chlorooctadecane	100 \$	% 37.6-14	7						

#### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### **Notes and Definitions**

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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

#### **Cardinal Laboratories**

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

106 5

101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476

Company Name	BBC International, Inc.							Bl	LL TO					8	ANA	_YSIS	RE	QUE	ST					
Project Manage	r: Cliff Brunson							P.C	). #:															
Address: P.O	. Box 805							Cor	npa	ny:														
City: Hobbs	State: NM	Zip	: 8	824	1			Attr	n:															
Phone #: 575-	397-6388 Fax #: 575-	-39	7-0	397				Add	dres	s:														
Project #:	Project Owner	:						City	/:															
Project Name:	Pygmy 27 State #3H							Sta	te:		Zip:													
Project Locatio	n:							Pho	one	#:			1											
Sampler Name:	R LAB USE ONLY							Fax	:#:					+	q				=					
FOR LAB USE ONLY	oject Location: mpler Name: Jeff Ornelas DR LAB USE ONLY					TRE	(		PRE	SERV	SAMPL	ING	1	×	10									
Lab I.D.	Sample I.D.	OR	# CONTAINERS	GROUNDWATER	VVAS I EVVA I EK SOU	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL OTHER :	DATE	ТІМЕ	BTEX	TPH E	Chloria									
1	SP1 @ Surface										6-21-18	9:39 am	1	1	1									
2											6-21-18	10:15 am	$\checkmark$	$\checkmark$	1									
3											6-21-18	10:33 am			1							9		
4						ĺ.					6-21-18	10:45 am	1	$\checkmark$	$\checkmark$									
5											6-21-18	10:57 am	1	1	1							<u>15</u>		
6											6-21-18	11:11 am		11	1									
7											6-21-18	11:22 am	$\checkmark$	$\checkmark$	$\checkmark$									
8											6-21-18	11:33 am	1	1	1								14	
9	SP3 @ 2'									_	6-21-18	11:44 am			1									
10	rress: P.O. Box 805         State: NM Zip: 88241         ne #: 575-397-6388         Fax #: 575-397-0397         rect #:         Project Owner:         rect Location:         npler Name: Jeff Ornelas         Add USE ONLY         ab I.D.         Bample I.D.         O(0) YO BY       Wally Malley         I SP1 @ Surface       I       I         Z       SP1 @ 1'         Z       SP1 @ 1'         Z       SP1 @ 2'         I SP2 @ Surface       I         Z       SP2 @ 1'         J       I       I         I SP3 @ Surface       I       I         J       SP3										6-21-18	12:01 pm	1	1	1									

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be demed valved unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors adjusted to the performance of services here under by Cardinal repartless of whether such claim is based unon any of the above stated reserves or otherables.

23	Relinquished By:	Date: 10 /0 Received By:	1.1-	Phone Result:	□ Yes	D No	Add'l Phone #:
		00776	1.11.1	Fax Result:	□ Yes	🗆 No	Add'I Fax #:
		Time: Chulaka	AVAU	REMARKS:			
/		7,550 19111010 0400	acyc .				
6	Relinquished By:	Date: Received By:					
$\leq$			2021				
	2	Time:					
		0					
	Delivered By: (Circle One)	D. C. Sample Condition CH	ECKED BY:				
	1000 20 02	Cool Intact	(Initials)	0			
	Sampler - UPS - Bus - Other:	Preserves Hes	D that	Se	2000	haire	Head Smaal
		Cordected V. S.C. No No	7.4 D	d	mer	inte	mana quice.

Page 49 of 52



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

RDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

										L	3[[	LL TO					8	ANA	LYSIS	S RE	QUE	ST		
							_	Р.С	). #:															
	. Box 805							Co	mpa	iny:	8													
City: Hobbs		Zip	»: {	382	41			Att	n:												1			
Phone #: 575-	397-6388 Fax #: 575	-39	7-0	397	7			Ad	dres	ss:														
Project #:		:						Cit	y:												50			
Project Name:	Pygmy 27 State #3H							Sta	te:			Zip:												
Project Locatio	none #:       575-397-6388       Fax #:       575-397-0397         oject #:       Project Owner:         oject Name:       Pygmy 27 State #3H         oject Location:							Pho	one	#:														
Sampler Name:	Jeff Ornelas							Fax	(#:						+									
FOR LAB USE ONLY					M	ATRI	x		PRE	SEF	۲V.	SAMPL	NG		X	6								
Lab I.D.	10 Second and Comparison & United (1)	(G)RAB OR (C)OMF	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	ТІМЕ	BTEX	TPH B	CL								
11												6-21-18	12:50 pm	$\checkmark$	1	1								
12												6-21-18	1:11 pm			$\checkmark$								
						10			_			6-21-18	1:30 pm	$\checkmark$	1	1								
											-	6-21-18		1	$\checkmark$	$\checkmark$				*				
15											_	6-21-18	1:50 pm			✓								
14		_				-	-	_			_	6-21-18		$\checkmark$	1	1								
17							-			_	-	6-21-18		$\checkmark$	$\checkmark$	√		_						
											-	6-21-18	106			~	2							
	D I.D.       Sample I.D.       No BY (MONO # 1000 #								_		_	6-22-18	11111201211112010	$\checkmark$	$\checkmark$	$\checkmark$								
20	SP7 @ 1'											6-22-18	9:11 am	$\checkmark$	$\checkmark$	1								

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the 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 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliate or substance and any other cause because by Cardinal incomplete by Cardinal weather of the damage.

	Relinquished By:	Date: 16.10	Received By:	This based upon any of the above stated re	Phone Result:	□ Yes	🗆 No	Add'l Phone #:
		0.110	1.	11111.1	Fax Result:	Yes	□ No	Add'l Fax #:
	140	Time:	Munara 1	VIADIC	REMARKS:			
	Relinguished By:	Date:	Received By:	hacmi-j.				
4		10-0000						
	$\mathcal{U}$	Time:						
	Delivered By: (Circle One)	10	Sample Condi					
	Delivered by. (Circle One)	Q.6c	Cool Intact	tion CHECKED BY: (Initials)	0			
	Sampler - UPS - Bus - Other:	A T.	1 1 - Tres Eres		- 7		1	1 10000
1		arrecles	V.JSC NO NO		J	one	Ma	we head Dall



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

RDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

	one #: 575-397-6388       Fax #: 575-397-0397         oject #:       Project Owner:         oject Name:       Pygmy 27 State #3H         oject Location:									Ŀ	31	LL TO		11.0			ANA	LYSI	S RE	QUE	ST		
Project Manage	r: Cliff Brunson							P.(	0. #.	:													
	. Box 805							Co	mpa	any:													
City: Hobbs		Zip	: 8	3824	1			At	tn:														
Phone #: 575-	397-6388 Fax #: 575-	-39	7-0	397		_		Ad	Idre	ss:													
Project #:		:						Cit	ty:														
Project Name:	Pygmy 27 State #3H							Sta	ate:			Zip:											
Project Locatio	n:							Ph	one	#:													
Sampler Name:	Jeff Ornelas							Fa	x #:														
FOR LAB USE ONLY						ATRI	X	_	PRE	ESER	۲V.	SAMPL	NG		X								
Lab I.D.	Sample I.D.	OR N	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER :	ACID/BASE:	CE / COOL	OTHER :	DATE	TIME	BTEX	TOHE	CL							
21												6-22-18	9:45 am	1	1	1							
												6-22-18	10:19 am	$\checkmark$	$\checkmark$	1							
		_										6-22-18	10:59 am	1	1	1						e."	
												6-22-18	11:11 pm	$\checkmark$	$\checkmark$	$\checkmark$							
					_							6-22-18	11:51 am			1							
												6-22-18	12:45 pm	1	1	1							
								,				6-22-18	1:11 pm	$\checkmark$	$\checkmark$	$\checkmark$							
												6-22-18	1:30 pm			1							
29					- 54							6-22-18	1:49 pm	$\checkmark$	$\checkmark$	1							
30	oject Name: Pygmy 27 State #3H         oject Location:         mpler Name: Jeff Ornelas         RLAB USE ONLY         .ab I.D.         /80/790         3/         SP8 @ Surface         3/         SP8 @ 1'										6-22-18	2:15 pm	1	1	1								

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Ĺ	Relinquished By: Relinquished By:	10-0770 MIL	Phone Result: Fax Result: REMARKS:	□ Yes □ Yes	□ No □ No	Add'I Phone #: Add'I Fax #:
	Delivered By: (Circle One)	6C Sample Condition Cool Intact (Initials) Spectral 0.55 No No No	- 5	ome	he	me head Space

30% 5



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476

Company Name	BBC International, Inc.										B	ILL TO					ANA	LYSIS	S RE	QUE	ST		
Project Manage	r: Cliff Brunson								P.C	). #:			80										
Address: P.O	. Box 805								Cor	mpa	ıy:												
city: Hobbs	State: NM	Zip	o: 8	882	41				Att	n:		10											
Phone #: 575-	397-6388 <b>Fax #:</b> 575	-39	7-0	397	7				Add	dres	s:						т. -						
Project #:	Project Owner	r:							City	y:													
Project Name:	Pygmy 27 State #3H								Sta	te:		Zip:											
Project Locatio	n:								Pho	one #	<b>#:</b>	10	D.	1	14								
Sampler Name:	Jeff Ornelas				N.				Fax	c #:				1	-								
FOR LAB USE ONLY MA						MAT	RIX			PRE	SER\	SAMPL	ING	1	(1)								
Lab I.D. <i>H801 79</i> 0	Sample I.D.	(G)RAB OR (C)OMP.	AIN	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	DTHER :	DATE	ТІМЕ	BTEX	1 5-1	CL							æ
31	SP11 @ 2'											6-22-18	2:33 pm			1							
32	SP12 @ Surface											6-22-18	2:45 pm	$\checkmark$	$\checkmark$	1							
33	SP12 @ 1'											6-22-18	3:01 pm	1	1	1							
34	SP12 @ 2'											6-22-18	3:15 pm			$\checkmark$							
35	SP13 @ Surface											6-25-18	9:55 am	$\checkmark$	$\checkmark$	1							
36	SP13 @ 1'				_							6-25-18	10:15 am	1	$\checkmark$	$\checkmark$							
37	SP13 @ 2'											6-25-18	10:33 am			$\checkmark$							
38	SP14 @ Surface							_				6-25-18	11:33 am	$\checkmark$	1	1			×				
39	SP14 @ 1'											6-25-18	12:05 pm	$\checkmark$	$\checkmark$	1						- G	
40	SP15 @ Surface											6-25-18	12:50 pm	1	$\checkmark$	1							

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	6046			Fax Result:	Yes	🗆 No	Add'I Fax #:
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Relinquished By:	Date:	Received By:					
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Page 52 of 52

5 % 5

ARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476

Company Name: BBC International, Inc.						E	37/-	L TO					ANA	LYSIS	S RE	QUE	ST						
	r: Cliff Brunson							P.O. #:															
Address: P.O. Box 805					Company:																		
					Attn:																		
Phone #: 575-	397-6388 Fax #: 575-	-397	7-0	397				Ad	dres	ss:													
Project #:	Project Owner	•						Cit	y:														
	Pygmy 27 State #3H							Sta	ite:		1	Zip:											
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FOR LAB USE ONLY				x	0	PRE	SEF	۲V.	SAMPL	NG		X	45										
Lab I.D. <u>H801 79</u> 0	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	BTEX	J Hert	CC							
41	SP15 @ 1'											6-25-18	1:21 pm	1	1	$\checkmark$							
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43	E @ Surface											6-25-18	1:45 pm	$\checkmark$	√	1							
	W @ Surface											6-25-18	2:10 pm	1	$\checkmark$	$\checkmark$							
45	S @ Surface											6-25-18	2:30 pm	1	$\checkmark$	1							
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Relinguished By:	Date: D/C	Received By:	11/1	Phone Result:	Yes	🗆 No	Add'l Phone #:
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Relinquished By:	Date:	Received By:					
	Time:						
Delivered By: (Circle One)	Dlac	Sample Condition	CHECKED BY:		0		1 1
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Sampler - UPS - Bus - Other: /	7 auton	Yes Yes	TOAT		An	40. h	ave flead mall
	omerler	V. De No No	LU AD		-011	a cu	an jung office

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

## **Release Notification and Corrective Action**

		<b>OPERATOR</b>	$\ge$	Initial Report	Final Report		
Name of Company: COG Operating, LLC (OGF	RID #229137)	Contact:	Robert McNe	11			
Address: 600 West Illinois Avenue, Midland, T	Telephone No.	432-683-7443					
Facility Name: Pygmy 27 State #003H	Facility Type: Flowl	ine					
Surface Owner: State	Mineral Owner	:: State		API No. 30-025-4	2068		

## **LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
Р	28	21S	33E					Lea

Latitude 32.44483 Longitude -103.57282 NAD83

## NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 150 bbl. Volume Recovered: 25 bbl.
Source of Release: Hole in Flex Pipe	Date and Hour of Occurrence: Date and Hour of Discovery
	May 6, 2018 4:20pm May 6, 2018 4:20pm
Was Immediate Notice Given?	If YES, To Whom?
🛛 Yes 🗌 No 🗌 Not Rea	
	Ryan Mann – SLO
By Whom? Sheldon Hitchcock	Date and Hour: May 7, 2018 8:09am
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse.
🗌 Yes 🖾 No	
If a Watercourse was Impacted, Describe Fully.*	<b>RECEIVED</b> By Olivia Yu at 10:06 am, May 09, 2018
Describe Cause of Problem and Remedial Action Taken.*	
The release was due to a hole in the flex pipe. The flex pipe is bein Describe Area Affected and Cleanup Action Taken.*	g repaired.
Describe Area Arrected and Cleanup Action Taken.	
The release occurred in the pasture and on the lease road. A vacuu	n truck was dispatched to remove all freestanding fluids. Concho will have the spill area
	vill present a remediation work plan to the NMOCD for approval prior to any significant
remediation activities.	r in
I hereby certify that the information given above is true and complete	ete 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 re	lease notifications and perform corrective actions for releases which may endanger
	t by the NMOCD marked as "Final Report" does not relieve the operator of liability
	mediate contamination that pose a threat to ground water, surface water, human health
	eport does not relieve the operator of responsibility for compliance with any other
federal, state, or local laws and/or regulations.	
	OIL CONSERVATION DIVISION
Signature: Daunn Oreant	
Signature: LAUNNUMANT	
Printed Name: DeAnn Grant	Approved by Environmental Specialist:
Printed Name: DeAnn Grant	
Title: HSE Administrative Assistant	Approval Date: 5/9/2018 Expiration Date:
E-mail Address: agrant@concho.com	Conditions of Approval: Attached
Date: May 9, 2018 Phone: 432-253-4513	see attached directive

\* Attach Additional Sheets If Necessary

1RP-5051 nOY1812938015

pOY1812938207

Operator/Responsible Party,

The OCD has received the form C-141 you provided on \_5/9/2018\_ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number \_1RP-5051\_ has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District \_1\_ office in \_\_Hobbs\_\_\_\_ on or before \_6/9/2018\_. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

• Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

• Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

• Nominal detection limits for field and laboratory analyses must be provided.

• Composite sampling is not generally allowed.

• Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

•Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

• If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

• Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us Ms. Yu/Mr. Mann,

COG Operating, LLC (OGRID# 229137) is reporting a release on a flowline associated with the Pygmy 27 State #003H.

Release Location: ULSTR: P-28-21S-33E

Lat/Long: 32.4565239 -103.5581741

Release Volume: >25bbls

Recovery Volume: On going

COG will have the release evaluated and will submit an initial C-141. If you have any questions or concerns please do not hesitate to contact me.

Thank you,

Sheldon L. Hitchcock HSE Coordinator COG Operating LLC 2407 Pecos Avenue | Artesia, NM 88210 Cell: 575-703-6475 | Office: 575-746-2010 <u>slhitchcock@concho.com</u>



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subject to management's final approval as memorialized in a separate written instrument, excluding electronic correspondence, executed by an authorized representative of COG Operating LLC or its affiliates.



Dear Mr. Brunson:

- NMOCD approves of the delineation completed and proposed delineation for **1RP-5051** with these conditions:
  - Confirmation bottom and sidewall samples are required. At least one of the sidewall/edge samples is to be at the border between the different depths of excavation areas.
  - Please extend the excavation areas to include the proposed white zone areas as no laboratory data was provided within this area to show non-impact.
  - Dated photo documentation of the remedial activities.
  - Scaled map with the confirmation sample locations in relation to the delineation sample points. Please also identify the release point.

Thanks, Christina Hernandez EMNRD-OCD Environmental Specialist 1625 N. French Drive Hobbs, NM 88240 575-393-6161 x111 Christina Hernandez@state.nm us

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

From: Mann, Ryan <rmann@slo.state.nm.us> Sent: Friday, October 19, 2018 4:01 PM

To: 'Cliff Brunson' <cbrunson@bbcinternational.com>; Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>

Cc: Hernandez, Christina, EMNRD <Christina. Hernandez@state.nm.us>; 'Becky Haskell' <rhaskell@concho.com>; 'DeAnn Grant <agrant@concho.com>; 'Dakota Neel' <DNeel2@concho.com>; 'Sheldon Hitchcock' <SLHitchcock@concho.com>; 'Ken Swinney@chcinternational.com>; 'Jennifer Gilkey' <jgilkey@bbcinternational.com>; 'Kathy Purvis' <kathy@bbcinternational.com> Subject: [EXT] RE: COG Pygny 27 State #003H (1RP-S051) - Delineation Workplan

NMSLO approves of the plan as written. As stated in the proposal, anything the is not part of the caliche road must be reclaimed to the prior condition, this includes vegetation. Additionally, NMSLO will not issue closure until revegetation achieved, this results in conflict with the 90 day turn around stipulation because the site shouldn't be seeded until next year. Let me know if you have any questions.

Ryan Mann Remediation Specialist Field Operation Division (575) 392-3697 (505) 699-1989 New Mexico State Land Office 2827 N. Dal Paso Suite 117 Hobbs, NM 88240

#### From: Cliff Brunson [mailto:cbrunson@bbcinternational.com] Sent: Thursday, September 13, 2018 6:10 PM

To: 'Olivia Yu' <<u>Olivia.Yu@state.nm.us</u>>; Mann, Ryan <<u>rmann@slo.state.nm.us</u>>

Cc: 'Hernandez, Christina, EMNRD' <<u>Christina, Hernandez@state.nm.us</u>; 'Becky Haskell' <<u>rhaskell@concho.com</u>; DeAnn Grant <<u>agrant@concho.com</u>; 'Dakota Neel' <<u>DNeel2@concho.com</u>; 'Sheldon Hitchcock' <<u>SLHitchcock@concho.com</u>; 'Ken Swinney@bbcinternational.com</u>; 'Jennifer Gilkey' <<u>jgilkey@bbcinternational.com</u>; 'Ken Swinney' <<u>kswinney@bbcinternational.com</u>; 'Jennifer Gilkey' <<u>jgilkey@bbcinternational.com</u>; 'Kathy Purvis' <<u>kathy@bbcinternational.com</u>} Subject: COG Pygmy 27 State #003H (1RP-5051) - Delineation Workplan

Olivia and Ryan,

Please find the attached Delineation Workplan and remediation proposal for the COG Pygmy 27 State #003H (1RP-5051). Page 5 (Remediation) of the C-141 is attached in the submitted plan. COG is requesting that you review this plan and is looking forward to the OCD's and SLO's approval.

If you have any questions, please let me know.

Thanks, Cliff

Cliff P. Brunson, CEJ, CRS President BGC International, Inc. World-Wide Environmental Specialists Mailing Address: P. O. Box 805 Hobbs, NM 88241-0805 USA Hobbs, NM 88241-0805 USA Hobbs, NM 88240 USA Phone: (573) 597-083 Era: (575) 397-087 E-Mail: drumane/benternational.com

#### NOR85, NEW MEXICO

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