Closure Report

	Site Description
Site Name:	Cedar Canyon 29 Fed Com #3H
Company:	Oxy USA Inc.
Legal Description:	U/L K, Section 28, T24S, R29E
County:	Eddy County, NM
GPS Coordinates:	N 32.18571 W-103.99137

	Release Data
Date of Release:	08/05/2017
Type of Release:	Oil and produced water
Source of Release:	Poly flow line failure
Volume of Release:	8 bbls oil, 2 bbls produced water
Volume Recovered:	0 bbls

	Remediatio	n Specifications
Remediation Parameters:	areas of SP4 and excavation. Exca	eas of SP1-SP3 to a depth of 1 foot. Excavated the displayed SP5 to a depth of 4 feet and placed a liner in the avated the area of SP9 to a depth of 2 feet. The did not require remediation. Backfill the site with
Remediation Activities:	08/21/2018 to 0	8/24/2018
Plan Sent to OCD:	11/29/2017	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	03/05/2018	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	11/29/2017	Email from Cliff Brunson to Shelly Tucker
BLM Approval of Plan:	12/26/2017	Email from Shelly Tucker to Cliff Brunson

	Supporting Documentation
Initial C-141	Signed 08/08/2017
Final C-141	Upon completion
Site Diagram	August 2017
Groundwater Plot	75'
TOPO Maps	August 2017
Lab Summary	09/18/2017-09/20/2017
Lab Analysis	09/18/2017-09/20/2017
Correspondence	Request and approval of remediation plan via email

Request for Closure

Based on the completion of the remediation plan, Oxy Permian requests closure approval from NMOCD.

Wade Dittrich, Environmental Specialist

08/27/2018

NM OIL CONSERVATION

ARTESIA DISTRICT

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

AUG 1 0 2017

Form C-141 Revised April 3, 2017

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

			Rele	ease Notific	ation	and Co	rrective A	ction	l		
DABL	12264	10005				OPERA	ΓOR		☑ Initia	l Report	Final Repor
Name of Co		OXY USA I		16696			ADE DITTRIC				
Address Facility Na		294; HOUST		DERAL COM		<u>Felephone Nacility Typ</u>					
		AK CANT C	71, 271 1								
Surface Ow	ner			Mineral C	wner	FEDERAL		···	API No	. 30-015	5-42993
				·		OF REI				···	
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/\	Vest Line		County
Н	29	24S	29E	1990	N	ORTH	210	Е	AST		EDDY
			Latit	ude32.190250		ngitude OF REL]		NAD83			
Type of Rele	ase OIL	RODUCE	D WATE		UKE.	Volume of		OIL	Volume R	ecovered	0 bbls
							RODUCED WAT				
Source of Re	lease 4 in	ch poly line f	аниге			Date and H 08/05/2017	lour of Occurrenc	e	Date and	Hour of Dis	icovery
Was Immedi	ate Notice C		Yes [No Not Re	quired	If YES, To	Whom? ATCHER-NMOC	D; CR	YSTAL WE	AVER-NM	10CD; SHELLY
By Whom?	WADE D			***************************************		Date and H	lour 08/07/2011	7@11;	38 AM 10	:38.am	1 * e-mail
Was a Water	course Read	hed?	Yes 🗵	No		If YES, Vo	lume Impacting t	he Wat	ercourse.		
	ise of Proble	em and Remed	dial Action		repaire	d and put b	ack in service.		прудания политичника з		
Dacariba Ara	n Affactad	and Cleanup A	lation Tol	· · · · · · · · · · · · · · · · · · ·		1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-				hada da	
The impacted	l area is app	roximately 25	5x100 FT,	Leak did leave the							ts are subject to
regulations a public health should their o or the enviro	II operators or the envir operations h nment. In a	are required to conment. The ave failed to a	o report ar acceptance adequately OCD accep	e is true and comp nd/or file certain re- ce of a C-141 report investigate and re- ptance of a C-141	elease no ort by the emediate	otifications a NMOCD materination of the contamination of the contamina	nd perform correct arked as "Final R on that pose a thr	ctive act eport" of eat to g	ions for relations for relations for the local formal for the local formal formal for the local formal formal for the local formal formal formal for the local formal formal for the local for the local formal formal formal for the local formal formal for the local formal formal for the local formal formal formal formal formal formal formal for the local formal formal formal formal formal formal formal for the local formal form	eases which leve the ope r, surface w	n may endanger erator of liability rater, human health
Signature:	w	de Di	The	1			OIL CON Signed I		ATION		
Printed Name	e: WADE	DITTRICH				Approved by	Environmental S	pecialis	t:	or a weight.	N. Company
		AL COORDI	NATOR			Approval Da	1e: 81017		Expiration	Date: N	iA
E-mail Addre		dittrich@ox		ne: 575-390-28		Conditions o	f Approval:	ha		Attached	9P.4339

Operator/Responsible Party,

The OCD has received the form C-141 you provided on $\frac{8/10/2017}{}$ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 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 $\frac{2}{}$ office in $\frac{ARTESIA}{}$ on or before $\frac{9/10/2017}{}$. 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; C₆ thru C₃₆), 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; C₆ thru C₃₆), 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

Bratcher, Mike, EMNRD

From: Wade_Dittrich@oxy.com

Sent: Thursday, August 10, 2017 8:56 AM

To: Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD

Cc: stucker@blm.gov; cbrunson@bbcinternational.com; kathy@bbcinternational.com;

kswinney@bbcinternational.com; jgilkey@bbcinternational.com;

Jennifer_Smith@oxy.com

Subject: Cedar Canyon 29 Fed. Com 0003H

Attachments: Initial C-141-signed.pdf

All,

Attached is the Initial C-141. Please review and let me know if you have any questions. Thank you.

Wade Dittrich

Environmental Coordinator
Oxy Permian-New Mexico
575.390.2828 cell
Wade_Dittrich@Oxy.com

Weaver, Crystal, EMNRD

From: Wade_Dittrich@oxy.com

Sent: Monday, August 7, 2017 10:42 AM

To: Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD

Cc: stucker@blm.gov; cbrunson@bbcinternational.com; kathy@bbcinternational.com;

jgilkey@bbcinternational.com; kswinney@bbcinternational.com;

Jennifer_Smith@oxy.com

Subject: RE: Cedar Canyon 29 St. 0003H

Correction on report—It is the Cedar Canyon 29 State 0003H-sorry

Wade Dittrich

Environmental Coordinator

Oxy Permian-New Mexico 575.390.2828 cell Wade_Dittrich@Oxy.com

From: Dittrich, John W (Ervin Well Site Consultants)

Sent: Monday, August 7, 2017 10:38 AM

To: 'Bratcher, Mike, EMNRD' <mike.bratcher@state.nm.us>; 'Weaver, Crystal, EMNRD' <Crystal.Weaver@state.nm.us> **Cc:** 'stucker@blm.gov' <stucker@blm.gov>; cbrunson@bbcinternational.com; kathy@bbcinternational.com; Jennifer Gilkey <jgilkey@bbcinternational.com>; kswinney@bbcinternational.com; Smith, Jennifer A <Jennifer_Smith@oxy.com> **Subject:** Cedar Canyon 29 St. 0003H

All,

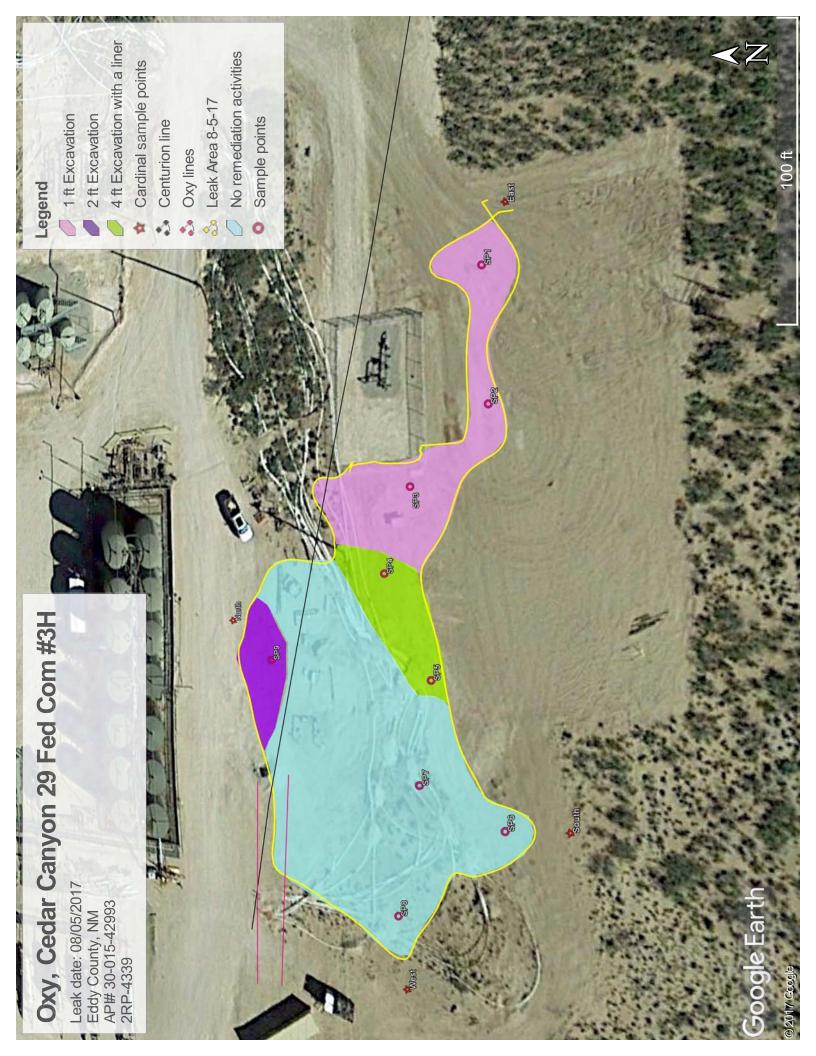
This is to inform you that Oxy Permian had a **Reportable** release in **Eddy County** at the <u>Cedar Canyon 2 SWD Battery</u> on 8/5/2017.

- Release Location: Legal -29-24S-29E, API: 30-015-214250
- Release Volume: 8 bbls of Oil and 2 bbls of Produced Water.
- Recovered: 0 bbls recovered
- Cause of Release: 4 inch poly line failure
- Approximate Area impacted by release: 25x100 FT, Leak did leave the location-leak is behind the Cedar Canyon 28 4
 CTB (measurements are subject to change with GPS tracking)
- GPS Coordinates and Driving Direction: 32.190250,-103.9986 FROM CARLSBAD NM TAKE HWY 285 GOING SOUTH TO
 MALAGA TURN LEFT ON DUERTE RD GO 3 MILES TURN RIGHT ON MCDONALD ROAD AND GO 6 MILES TURN RIGHT TO
 THE LOCATION

Please let me know if you have any questions.

Wade Dittrich

Environmental CoordinatorOxy Permian-New Mexico



Oxy, Cedar Canyon 29 Fed Com #3H

Sample points, hand auger

SP1, N 32.18572 W-103.99140

SP2, N 32.18571 W-103.99157

SP3, N 32.18581 W-103.99167

SP4, N 32.18584 W-103.99178

SP5, N 32.18577 W-103.99191

SP6, N 32.18569 W-103.99208

SP7, N 32.18579 W-103.99204

SP8, N 32.18582 W-103.99221

SP9, N 32.18599 W-103.99190

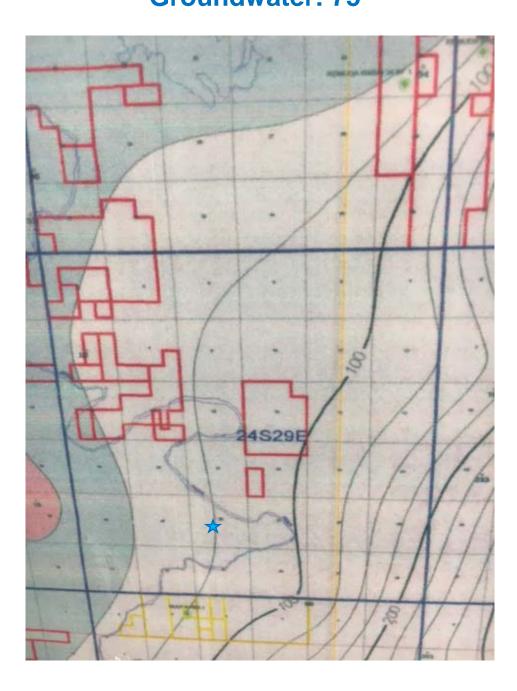
NORTH, N 32.18605 W-103.99185

SOUTH, N 32.18562 W-103.99207

EAST, N 32.18570 W-103.99133

WEST, N 32.18581 W-103.99230

Oxy, Cedar Canyon 29 Fed Com #3H U/L K, Section 28, T24S, R29E Groundwater: 75'





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

(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 595056 **Northing (Y):** 3561557 **Radius:** 1700

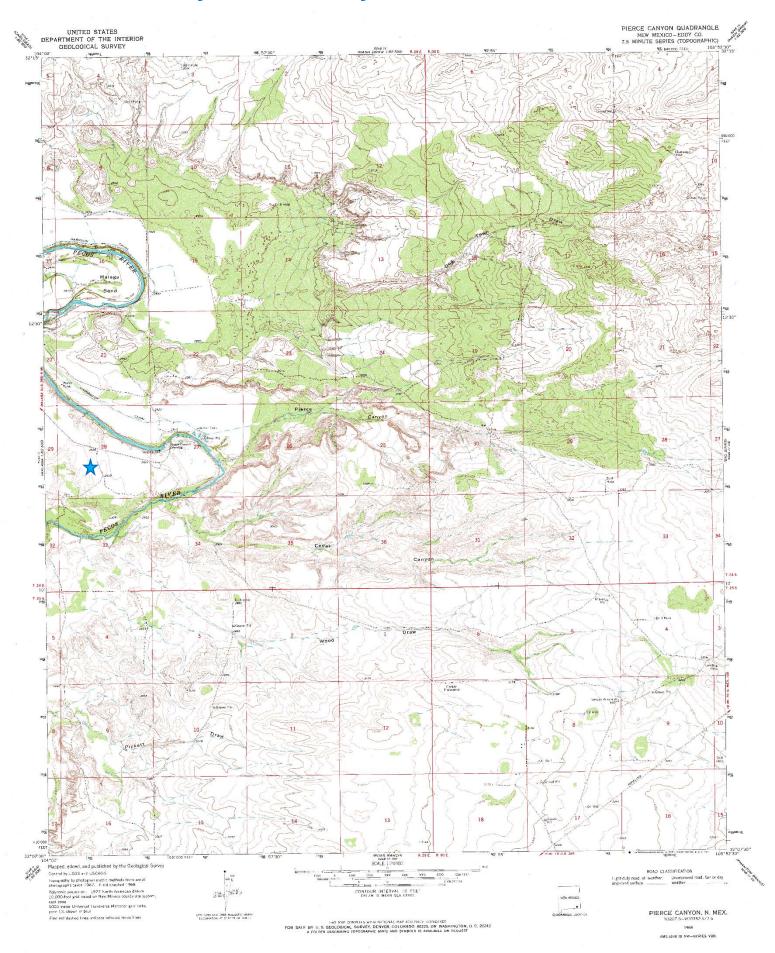
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

9/5/17 10:21 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

O 064	Public Land Survey System (PLSS) 1: Q16: NE Q4: SW Sec: 28 Tws: 24S Rng: 29E
О х: [с	State Plane Coordinate System - NAD27 ft Y: 0 ft Zone:
О х: [с	State Plane Coordinate System - NAD83 ft Y: 0 ft Zone:
	Degrees/Minutes/Seconds gitude (X): Degrees: 0 ° Minutes: 0 ' Seconds: 0 " stude (Y): Degrees: 0 ° Minutes: 0 ' Seconds: 0 "
O East	UTM - NAD27 sing (X): 0 mtrs Northing (Y): 0 mtrs Zone:
	All Conversion Results are displayed as NAD 1983 UTM Zone 13 Easting (X): 595056.0 mtrs Northing (Y): 3561557.0 mtrs ~~ Please keep screen open to copy UTM values for Reports. ~~

Oxy, Cedar Canyon 29 Fed Com #3H



3045 Gravel Pit Water Tank 2905 JANA 2909

Oxy, Cedar Canyon 29 Fed Com #3H

Laboratory Analytical Results Summary Cedar Canyon 29 Fed Com #003H

		Sample ID	SP1 @ 1.	SP1 @ 3'	SP1 @ 4'	SP1 @ 5'	SP1 @ 10'	SP1 @ 15
Analyte	Method	Date		9/1817	9/18/17	9/18/17	9/18/17	9/18/17
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	n/a	n/a	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	n/a	n/a	<0.300
Chloride	SM4500CI-B		1680	260	336	64	32	16
GRO	TPH 8015M		<10.0	<10.0	<10.0	n/a	n/a	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	n/a	n/a	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	n/a	n/a	<10.0

		Sample ID	SP2 @ 1'	SP2 @ 3'	SP2 @ 4'	SP2 @ 5'	SP2 @ 10'	SP2 @ 15'
Analyte	Method	Date	9/18/17	9/1817	9/18/17	9/18/17	9/18/17	9/18/17
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	n/a	n/a	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	n/a	n/a	<0.300
Chloride	SM4500CI-B		1600	464	320	32	16	16
GRO	TPH 8015M		<10.0	<10.0	<10.0	n/a	n/a	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	n/a	n/a	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	u/a	n/a	<10.0

		Sample ID	SP3 @ 1.	SP3 @ 3'	SP3 @ 4'	SP3 @ 5.		SP3 @ 10' SP3 @ 15'
Analyte	Method	Date	9/18/17	9/1817	9/18/17	9/18/17	9/18/17	9/18/17
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	n/a	n/a	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	n/a	n/a	008.0>
Chloride	SM4500CI-B		1620	512	304	91	16	32
GRO	TPH 8015M		<10.0	<10.0	<10.0	n/a	n/a	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	n/a	n/a	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	n/a	n/a	<10.0

		Sample ID	SP4 @ 1'	SP4 @ 2'	SP4 @ 4'	SP4 @ 6'	SP4 @ 8	SP4 @ 11.	SP4 @ 14'	SP4 @ 16'	SP4 @ 17	SP4 @ 18
Analyte	Method	Date	9/19/17	9/19/17	9/19/17	9/19/17	9/19/17	9/19/17	9/19/17	9/19/17	9/19/17	9/19/17
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	e/u	<0.050	n/a	n/a	n/a	n/a	<0.050
oluene	BTEX 8021B		<0.050	<0.050	<0.050	e/u	<0.050	n/a	n/a	n/a	n/a	<0.050
thylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	u/a	<0.050	n/a	n/a	n/a	n/a	<0.050
otal Xylenes	BTEX 8021B		0.427	<0.150	<0.150	e/u	<0.150	n/a	n/a	n/a	n/a	<0.150
otal BTEX	BTEX 8021B		0.427	<0.300	<0.300	e/u	<0.300	n/a	n/a	n/a	n/a	<0.300
Chloride	SM4500CI-B		2320	3320	4880	2720	816	096	968	416	432	91
GRO	TPH 8015M		29	10.5	<10.0	u/a	<10.0	n/a	n/a	n/a	n/a	<10.0
DRO	TPH 8015M		3280	1600	73	n/a	<10.0	n/a	n/a	n/a	n/a	<10.0
EXT DRO	TPH 8015M		278	355	40.9	n/a	<10.0	n/a	n/a	n/a	n/a	<10.0
XT DRO	TPH 8015M		578	355		40.9		n/a	n/a <10.0	n/a <10.0 n/a	n/a <10.0 n/a n/a n/a	1,7a <10.0 n/a n/a n/a n/a

Laboratory Analytical Results Summary Cedar Canyon 29 Fed Com #003H

		Sample ID	SP5 @ 1'	SP5 @ 2'	SP5@3'	SP5 @ 4'	SP5 @ 5'	SP5 @ 6'	SP5 @ 7'	SP5 @ 8'	SP5 @ 13'	SP5 @ 18'
Analyte	Method	Date	9/19/17	9/19/17	9/19/17	21/61/6	21/61/6	21/61/6	9/19/17	9/19/17	2/16/12	9/19/17
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	n/a	n/a	n/a	n/a	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300	n/a	n/a	n/a	n/a	<0.300
Chloride	SM4500CI-B		1220	272	1440	1420	1280	099	929	208	526	224
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a	<10.0

Analyte Method Date 920/17 870/17 870/17 870/17 870/17 870/17 870/17 970/17 </th <th></th> <th></th> <th></th> <th>© 9dS</th> <th></th> <th></th> <th></th>				© 9dS			
Method Date 9:20:17 9:			Sample ID	SURFACE		SP6 @ 6'	SP6 @ 11'
BTEX 8021B	Analyte	Method	Date	9/20/17	9/20/17	9/20/17	21/02/6
BTEX 8021B <0.050 <0.050 <0.050 BTEX 8021B <0.050				mg/kg	mg/kg	mg/kg	mg/kg
BTEX 8021B <0.050 <0.050 <0.050 BTEX 8021B <0.050	Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
BTEX 8021B <0.050 <0.050 <0.050 BTEX 8021B <0.150	Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
INTEX BITEX 8021B <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <th>Ethylbenzene</th> <td>BTEX 8021B</td> <td></td> <td><0.050</td> <td><0.050</td> <td><0.050</td> <td><0.050</td>	Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
X BTEX 8021B <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 </td <th>Total Xylenes</th> <td>BTEX 8021B</td> <td></td> <td><0.150</td> <td><0.150</td> <td><0.150</td> <td><0.150</td>	Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
SMA500CI-B 176 32 32 TPH 8015M <10.0	Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
TPH 8015M <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0	Chloride	SM4500CI-B		176	32	32	16
TPH 8015M <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <1	GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
TPH 8015M <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

		Sample ID	SURFACE	SP7 @ 1'	SP7 @ 6'	SP7 @ 11.
Analyte	Method	Date	9/20/17	9/20/17	9/20/17	9/20/17
			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	32	<16.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		138	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		9.69	<10.0	<10.0	<10.0

			© 84S			
		Sample ID	SURFACE	SP8 @ 1'	SP8 @ 6'	SP8 @ 11'
Analyte	Method	Date	9/20/17	9/20/17	21/02/6	9/20/17
			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		224	80	224	368
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

Laboratory Analytical Results Summary Cedar Canyon 29 Fed Com #003H

		Sample ID	SP9 @ 1'	SP9 @ 2'	SP9 @ 4'	.9 @ 6dS	SP9 @ 7'	SP9 @ 12'	SP9 @ 17'
Analyte	Method	Date	9/20/17	9/20/17	9/20/17	9/20/17	9/20/17	9/20/17	9/20/17
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	n/a	<0.050	<0.050	n/a	n/a	<0.050
Toluene	BTEX 8021B		<0.050	n/a	<0.050	<0.050	n/a	n/a	<0.050
Ethylbenzene	BTEX 8021B		<0.050	n/a	<0.050	<0.050	n/a	n/a	<0.050
Total Xylenes	BTEX 8021B		<0.150	n/a	<0.150	<0.150	n/a	n/a	<0.150
Total BTEX	BTEX 8021B		<0.300	n/a	<0.300	<0.300	n/a	n/a	<0.300
Chloride	SM4500CI-B		432	1620	784	752	240	304	336
GRO	TPH 8015M		<10.0	n/a	<10.0	<10.0	n/a	n/a	<10.0
DRO	TPH 8015M		1090	n/a	<10.0	<10.0	n/a	n/a	<10.0
EXT DRO	TPH 8015M		224	u/a	11.4	<10.0	n/a	n/a	<10.0

			NORTH @			@ HINOS
Method Method	DINAL POINTS	Sample ID	SURFACE	SURFACE	SURFACE	SURFACE
zene		Date	9/20/17	9/20/17	9/20/17	9/20/17
zene enes EX			mg/kg	mg/kg	mg/kg	mg/kg
benzene Xylenes BTEX ide		3	<0.050	<0.050	<0.050	<0.050
benzene Xylenes BTEX ide			<0.050	<0.050	<0.050	<0.050
Xylenes BTEX ride			<0.050	<0.050	<0.050	<0.050
BTEX		3	<0.150	<0.150	<0.150	<0.150
ride		8	<0.300	<0.300	<0.300	<0.300
			32	32	48	91
			<10.0	<10.0	<10.0	<10.0
	TPH 8015M		<10.0	<10.0	<10.0	<10.0
EXT DRO TPH 8015M			<10.0	<10.0	<10.0	<10.0



September 29, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CEDAR CANYON 29 FED COM #3H

Enclosed are the results of analyses for samples received by the laboratory on 09/22/17 9:03.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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 www.tceq.texas.gov/field/ga/lab accred certif.html.

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

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 09/22/2017 Sampling Date: 09/18/2017

Reported: 09/29/2017 Sampling Type: Soil

Project Name: CEDAR CANYON 29 FED COM #3H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Applymed By MC

Project Location: EDDY COUNTY

Sample ID: SP 1 @ 1 (H702583-01)

DTEV 0021D

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	09/27/2017	ND	2.18	109	2.00	2.29	
Toluene*	<0.050	0.050	09/27/2017	ND	1.96	98.0	2.00	2.86	
Ethylbenzene*	<0.050	0.050	09/27/2017	ND	1.98	98.9	2.00	3.52	
Total Xylenes*	<0.150	0.150	09/27/2017	ND	6.02	100	6.00	2.83	
Total BTEX	<0.300	0.300	09/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	6 72-148							
Chloride, SM4500CI-B	mg/	kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1680	16.0	09/26/2017	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	09/25/2017	ND	191	95.6	200	0.722	
DRO >C10-C28	<10.0	10.0	09/25/2017	ND	207	104	200	0.377	
EXT DRO >C28-C36	<10.0	10.0	09/25/2017	ND					
Surrogate: 1-Chlorooctane	78.1 9	28.3-16	4						
Surrogate: 1-Chlorooctadecane	75.4 9	% 34.7-15	7						

Cardinal Laboratories *=Accredited Analyte

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BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 09/22/2017 Sampling Date: 09/18/2017

Reported: 09/29/2017 Sampling Type: Soil

Project Name: CEDAR CANYON 29 FED COM #3H Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Analyzed By: MC

Project Location: **EDDY COUNTY**

ma/ka

Sample ID: SP 1 @ 3 (H702583-02)

RTFY 8021R

BIEX 8021B	mg	/ Kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2017	ND	2.18	109	2.00	2.29	
Toluene*	<0.050	0.050	09/27/2017	ND	1.96	98.0	2.00	2.86	
Ethylbenzene*	<0.050	0.050	09/27/2017	ND	1.98	98.9	2.00	3.52	
Total Xylenes*	<0.150	0.150	09/27/2017	ND	6.02	100	6.00	2.83	
Total BTEX	<0.300	0.300	09/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 72-148	3						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	09/26/2017	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/25/2017	ND	191	95.6	200	0.722	
DRO >C10-C28	<10.0	10.0	09/25/2017	ND	207	104	200	0.377	
EXT DRO >C28-C36	<10.0	10.0	09/25/2017	ND					
Surrogate: 1-Chlorooctane	78.1	% 28.3-16	<i>i</i> 4						
Surrogate: 1-Chlorooctadecane	76.1	% 347-15	7						

Surrogate: 1-Chlorooctadecane 76.1 % 34.7-157

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BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 09/22/2017 Sampling Date: 09/18/2017

Reported: 09/29/2017 Sampling Type: Soil

Project Name: CEDAR CANYON 29 FED COM #3H Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: **EDDY COUNTY**

Sample ID: SP 1 @ 4 (H702583-03)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2017	ND	2.18	109	2.00	2.29	
Toluene*	<0.050	0.050	09/27/2017	ND	1.96	98.0	2.00	2.86	
Ethylbenzene*	<0.050	0.050	09/27/2017	ND	1.98	98.9	2.00	3.52	
Total Xylenes*	<0.150	0.150	09/27/2017	ND	6.02	100	6.00	2.83	
Total BTEX	<0.300	0.300	09/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 72-148							
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	09/26/2017	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	09/25/2017	ND	191	95.6	200	0.722	
DRO >C10-C28	<10.0	10.0	09/25/2017	ND	207	104	200	0.377	
EXT DRO >C28-C36	<10.0	10.0	09/25/2017	ND					
Surrogate: 1-Chlorooctane	77.6	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	81.3	% 34.7-15	7						

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Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 09/22/2017 Sampling Date: 09/18/2017

Reported: 09/29/2017 Sampling Type: Soil

Project Name: CEDAR CANYON 29 FED COM #3H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY

Sample ID: SP 1 @ 5 (H702583-04)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/26/2017	ND	416	104	400	0.00	
Sample ID: SP 1 @ 10 (H	702583-05)								
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	09/26/2017	ND	416	104	400	0.00	

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Fax To: (575) 397-0397

Received: 09/22/2017 Sampling Date: 09/18/2017

Reported: 09/29/2017 Sampling Type: Soil

Project Name: CEDAR CANYON 29 FED COM #3H Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: **EDDY COUNTY**

Sample ID: SP 1 @ 15 (H702583-06)

BTEX 8021B	mg/	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2017	ND	2.18	109	2.00	2.29	
Toluene*	<0.050	0.050	09/27/2017	ND	1.96	98.0	2.00	2.86	
Ethylbenzene*	<0.050	0.050	09/27/2017	ND	1.98	98.9	2.00	3.52	
Total Xylenes*	<0.150	0.150	09/27/2017	ND	6.02	100	6.00	2.83	
Total BTEX	<0.300	0.300	09/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 72-148	}						
Chloride, SM4500CI-B	mg/	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/26/2017	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/25/2017	ND	191	95.6	200	0.722	
DRO >C10-C28	<10.0	10.0	09/25/2017	ND	207	104	200	0.377	
EXT DRO >C28-C36	<10.0	10.0	09/25/2017	ND					
Surrogate: 1-Chlorooctane	59.9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	64.2	% 34.7-15	7						

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Fax To: (575) 397-0397

Received: 09/22/2017 Sampling Date: 09/18/2017

Reported: 09/29/2017 Sampling Type: Soil

Project Name: CEDAR CANYON 29 FED COM #3H Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: **EDDY COUNTY**

Sample ID: SP 2 @ 1 (H702583-07)

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	09/27/2017	ND	2.18	109	2.00	2.29	
Toluene*	<0.050	0.050	09/27/2017	ND	1.96	98.0	2.00	2.86	
Ethylbenzene*	<0.050	0.050	09/27/2017	ND	1.98	98.9	2.00	3.52	
Total Xylenes*	<0.150	0.150	09/27/2017	ND	6.02	100	6.00	2.83	
Total BTEX	<0.300	0.300	09/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 72-148	3						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1600	16.0	09/26/2017	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	09/25/2017	ND	191	95.6	200	0.722	
DRO >C10-C28	<10.0	10.0	09/25/2017	ND	207	104	200	0.377	
EXT DRO >C28-C36	<10.0	10.0	09/25/2017	ND					
Surrogate: 1-Chlorooctane	71.2	% 28.3-16	<i>i</i> 4						
Surrogate: 1-Chlorooctadecane	74.6	% 34.7-15	7						

Surrogate: 1-Chlorooctadecane 74.6 %

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Received: 09/22/2017 Sampling Date: 09/18/2017

Reported: 09/29/2017 Sampling Type: Soil

Project Name: CEDAR CANYON 29 FED COM #3H Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: **EDDY COUNTY**

Sample ID: SP 2 @ 3 (H702583-08)

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	09/27/2017	ND	2.18	109	2.00	2.29	
Toluene*	< 0.050	0.050	09/27/2017	ND	1.96	98.0	2.00	2.86	
Ethylbenzene*	< 0.050	0.050	09/27/2017	ND	1.98	98.9	2.00	3.52	
Total Xylenes*	<0.150	0.150	09/27/2017	ND	6.02	100	6.00	2.83	
Total BTEX	<0.300	0.300	09/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	6 72-148	}						
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	09/26/2017	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	09/25/2017	ND	191	95.6	200	0.722	
DRO >C10-C28	<10.0	10.0	09/25/2017	ND	207	104	200	0.377	
EXT DRO >C28-C36	<10.0	10.0	09/25/2017	ND					
Surrogate: 1-Chlorooctane	73.4 %	6 28.3-16	4						
Surrogate: 1-Chlorooctadecane	78 5 9	6 34 7-15	7						

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Received: 09/22/2017 Sampling Date: 09/18/2017

Reported: 09/29/2017 Sampling Type: Soil

Project Name: CEDAR CANYON 29 FED COM #3H Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Tamara Oldaker

Project Location: **EDDY COUNTY**

Sample ID: SP 2 @ 4 (H702583-09)

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	09/27/2017	ND	2.18	109	2.00	2.29	
Toluene*	<0.050	0.050	09/27/2017	ND	1.96	98.0	2.00	2.86	
Ethylbenzene*	<0.050	0.050	09/27/2017	ND	1.98	98.9	2.00	3.52	
Total Xylenes*	<0.150	0.150	09/27/2017	ND	6.02	100	6.00	2.83	
Total BTEX	<0.300	0.300	09/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 72-148	}						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	09/26/2017	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	09/25/2017	ND	191	95.6	200	0.722	
DRO >C10-C28	<10.0	10.0	09/25/2017	ND	207	104	200	0.377	
EXT DRO >C28-C36	<10.0	10.0	09/25/2017	ND					
Surrogate: 1-Chlorooctane	69.9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	69.2	% 34.7-15	7						

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Received: 09/22/2017 Sampling Date: 09/18/2017

Reported: 09/29/2017 Sampling Type: Soil

Project Name: CEDAR CANYON 29 FED COM #3H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY

16.0

16.0

Sample ID: SP 2 @ 5 (H702583-10)

Chloride

Chloride, SM4500CI-B	mg	mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/26/2017	ND	416	104	400	0.00	
Sample ID: SP 2 @ 10 (H	702583-11)								
Chloride, SM4500CI-B	B mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

ND

416

104

400

0.00

09/26/2017

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Received: 09/22/2017 Sampling Date: 09/18/2017

Reported: 09/29/2017 Sampling Type: Soil

Project Name: CEDAR CANYON 29 FED COM #3H Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: **EDDY COUNTY**

Sample ID: SP 2 @ 15 (H702583-12)

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2017	ND	2.18	109	2.00	2.29	
Toluene*	<0.050	0.050	09/27/2017	ND	1.96	98.0	2.00	2.86	
Ethylbenzene*	<0.050	0.050	09/27/2017	ND	1.98	98.9	2.00	3.52	
Total Xylenes*	<0.150	0.150	09/27/2017	ND	6.02	100	6.00	2.83	
Total BTEX	<0.300	0.300	09/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 72-148	}						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/26/2017	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/25/2017	ND	191	95.6	200	0.722	
DRO >C10-C28	<10.0	10.0	09/25/2017	ND	207	104	200	0.377	
EXT DRO >C28-C36	<10.0	10.0	09/25/2017	ND					
Surrogate: 1-Chlorooctane	79.1	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	75.3	% 34.7-15	7						

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Received: 09/22/2017 Sampling Date: 09/18/2017

Reported: 09/29/2017 Sampling Type: Soil

Project Name: CEDAR CANYON 29 FED COM #3H Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Tamara Oldaker

Project Location: **EDDY COUNTY**

Sample ID: SP 3 @ 1 (H702583-13)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2017	ND	2.18	109	2.00	2.29	
Toluene*	<0.050	0.050	09/27/2017	ND	1.96	98.0	2.00	2.86	
Ethylbenzene*	<0.050	0.050	09/27/2017	ND	1.98	98.9	2.00	3.52	
Total Xylenes*	<0.150	0.150	09/27/2017	ND	6.02	100	6.00	2.83	
Total BTEX	<0.300	0.300	09/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 72-148	}						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1620	16.0	09/26/2017	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	09/25/2017	ND	191	95.6	200	0.722	
DRO >C10-C28	<10.0	10.0	09/25/2017	ND	207	104	200	0.377	
EXT DRO >C28-C36	<10.0	10.0	09/25/2017	ND					
Surrogate: 1-Chlorooctane	77.9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	82.9	% 34.7-15	7						

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Received: 09/22/2017 Sampling Date: 09/18/2017

Reported: 09/29/2017 Sampling Type: Soil

Project Name: CEDAR CANYON 29 FED COM #3H Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: **EDDY COUNTY**

Sample ID: SP 3 @ 3 (H702583-14)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2017	ND	2.18	109	2.00	2.29	
Toluene*	<0.050	0.050	09/27/2017	ND	1.96	98.0	2.00	2.86	
Ethylbenzene*	<0.050	0.050	09/27/2017	ND	1.98	98.9	2.00	3.52	
Total Xylenes*	<0.150	0.150	09/27/2017	ND	6.02	100	6.00	2.83	
Total BTEX	<0.300	0.300	09/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 72-148							
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	09/26/2017	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/24/2017	ND	189	94.7	200	2.55	
DRO >C10-C28	<10.0	10.0	09/24/2017	ND	196	97.8	200	0.898	
EXT DRO >C28-C36	<10.0	10.0	09/24/2017	ND					
Surrogate: 1-Chlorooctane	68.8	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	76.7	% 34.7-15	7						

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Received: 09/22/2017 Sampling Date: 09/18/2017

Reported: 09/29/2017 Sampling Type: Soil

Project Name: CEDAR CANYON 29 FED COM #3H Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Tamara Oldaker

Project Location: **EDDY COUNTY**

Sample ID: SP 3 @ 4 (H702583-15)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2017	ND	2.18	109	2.00	2.29	
Toluene*	<0.050	0.050	09/27/2017	ND	1.96	98.0	2.00	2.86	
Ethylbenzene*	<0.050	0.050	09/27/2017	ND	1.98	98.9	2.00	3.52	
Total Xylenes*	<0.150	0.150	09/27/2017	ND	6.02	100	6.00	2.83	
Total BTEX	<0.300	0.300	09/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 72-148	}						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	09/26/2017	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	09/24/2017	ND	189	94.7	200	2.55	
DRO >C10-C28	<10.0	10.0	09/24/2017	ND	196	97.8	200	0.898	
EXT DRO >C28-C36	<10.0	10.0	09/24/2017	ND					
Surrogate: 1-Chlorooctane	65.7	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	71.0	% 34.7-15	7						

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Received: 09/22/2017 Sampling Date: 09/18/2017

Reported: 09/29/2017 Sampling Type: Soil

Project Name: CEDAR CANYON 29 FED COM #3H Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: **EDDY COUNTY**

Sample ID: SP 3 @ 5 (H702583-16)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 16.0 16.0 09/26/2017 ND 416 104 400 0.00

Sample ID: SP 3 @ 10 (H702583-17)

Chloride, SM4500Cl-B	M4500Cl-B mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/26/2017	ND	416	104	400	0.00	

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Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 09/22/2017 Sampling Date: 09/18/2017

Reported: 09/29/2017 Sampling Type: Soil

Project Name: CEDAR CANYON 29 FED COM #3H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY

Sample ID: SP 3 @ 15 (H702583-18)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2017	ND	2.18	109	2.00	2.29	
Toluene*	<0.050	0.050	09/27/2017	ND	1.96	98.0	2.00	2.86	
Ethylbenzene*	<0.050	0.050	09/27/2017	ND	1.98	98.9	2.00	3.52	
Total Xylenes*	<0.150	0.150	09/27/2017	ND	6.02	100	6.00	2.83	
Total BTEX	<0.300	0.300	09/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 72-148							
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/26/2017	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/24/2017	ND	189	94.7	200	2.55	
DRO >C10-C28	<10.0	10.0	09/24/2017	ND	196	97.8	200	0.898	
EXT DRO >C28-C36	<10.0	10.0	09/24/2017	ND					
Surrogate: 1-Chlorooctane	62.5	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	68.9	% 34.7-15	7						

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Received: 09/22/2017 Sampling Date: 09/19/2017

Reported: 09/29/2017 Sampling Type: Soil

Project Name: CEDAR CANYON 29 FED COM #3H Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: **EDDY COUNTY**

Sample ID: SP 4 @ 1 (H702583-19)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2017	ND	2.18	109	2.00	2.29	
Toluene*	<0.050	0.050	09/27/2017	ND	1.96	98.0	2.00	2.86	
Ethylbenzene*	<0.050	0.050	09/27/2017	ND	1.98	98.9	2.00	3.52	
Total Xylenes*	0.427	0.150	09/27/2017	ND	6.02	100	6.00	2.83	
Total BTEX	0.427	0.300	09/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	138 9	% 72-148	}						
Chloride, SM4500CI-B	mg/	mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2320	16.0	09/26/2017	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	67.0	10.0	09/24/2017	ND	189	94.7	200	2.55	
DRO >C10-C28	3280	10.0	09/24/2017	ND	196	97.8	200	0.898	
EXT DRO >C28-C36	578	10.0	09/24/2017	ND					
Surrogate: 1-Chlorooctane	88.2	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	119 9	% 34.7-15	7						

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Received: 09/22/2017 Sampling Date: 09/19/2017

Reported: 09/29/2017 Sampling Type: Soil CEDAR CANYON 29 FED COM #3H

Project Name: Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: **EDDY COUNTY**

Sample ID: SP 4 @ 2 (H702583-20)

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2017	ND	2.18	109	2.00	2.29	
Toluene*	<0.050	0.050	09/27/2017	ND	1.96	98.0	2.00	2.86	
Ethylbenzene*	<0.050	0.050	09/27/2017	ND	1.98	98.9	2.00	3.52	
Total Xylenes*	<0.150	0.150	09/27/2017	ND	6.02	100	6.00	2.83	
Total BTEX	<0.300	0.300	09/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	134	% 72-148	3						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3320	16.0	09/26/2017	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	10.5	10.0	09/24/2017	ND	189	94.7	200	2.55	
DRO >C10-C28	1600	10.0	09/24/2017	ND	196	97.8	200	0.898	
EXT DRO >C28-C36	355	10.0	09/24/2017	ND					
Surrogate: 1-Chlorooctane	70.8	% 28.3-16							
G 1 CH 1	05.4	0/ 247.15	7						

Surrogate: 1-Chlorooctadecane 95.4 % 34.7-157

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Received: 09/22/2017 Sampling Date: 09/19/2017

Reported: 09/29/2017 Sampling Type: Soil CEDAR CANYON 29 FED COM #3H

Project Name: Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: **EDDY COUNTY**

Sample ID: SP 4 @ 4 (H702583-21)

TEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2017	ND	2.18	109	2.00	2.29	
Toluene*	<0.050	0.050	09/27/2017	ND	1.96	98.0	2.00	2.86	
Ethylbenzene*	<0.050	0.050	09/27/2017	ND	1.98	98.9	2.00	3.52	
Total Xylenes*	<0.150	0.150	09/27/2017	ND	6.02	100	6.00	2.83	
Total BTEX	<0.300	0.300	09/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 72-148	}						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4880	16.0	09/26/2017	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	09/24/2017	ND	189	94.7	200	2.55	
DRO >C10-C28	73.0	10.0	09/24/2017	ND	196	97.8	200	0.898	
EXT DRO >C28-C36	40.9	10.0	09/24/2017	ND					
Surrogate: 1-Chlorooctane	72.8	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	78.7	% 34.7-15	7						

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Received: 09/22/2017 Sampling Date: 09/19/2017

Reported: 09/29/2017 Sampling Type: Soil

Project Name: CEDAR CANYON 29 FED COM #3H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY

Sample ID: SP 4 @ 6 (H702583-22)

Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2720	16.0	09/26/2017	ND	432	108	400	3.77	OM-07	

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Received: 09/22/2017 Sampling Date: 09/19/2017

Reported: 09/29/2017 Sampling Type: Soil

Project Name: CEDAR CANYON 29 FED COM #3H Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: **EDDY COUNTY**

Sample ID: SP 4 @ 8 (H702583-23)

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	09/27/2017	ND	2.18	109	2.00	2.29	
Toluene*	<0.050	0.050	09/27/2017	ND	1.96	98.0	2.00	2.86	
Ethylbenzene*	<0.050	0.050	09/27/2017	ND	1.98	98.9	2.00	3.52	
Total Xylenes*	<0.150	0.150	09/27/2017	ND	6.02	100	6.00	2.83	
Total BTEX	<0.300	0.300	09/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 72-148	}						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	09/26/2017	ND	432	108	400	3.77	
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	09/24/2017	ND	189	94.7	200	2.55	
DRO >C10-C28	<10.0	10.0	09/24/2017	ND	196	97.8	200	0.898	
EXT DRO >C28-C36	<10.0	10.0	09/24/2017	ND					
Surrogate: 1-Chlorooctane	73.7	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	79.1	% 34.7-15	7						

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Received: 09/22/2017 Sampling Date: 09/19/2017

Reported: 09/29/2017 Sampling Type: Soil

Project Name: CEDAR CANYON 29 FED COM #3H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY

Sample ID: SP 4 @ 11 (H702583-24)

Chloride, SM4500Cl-B	mg	mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	09/26/2017	ND	432	108	400	3.77	
Sample ID: SP 4 @ 14 (H	702583-25)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	09/26/2017	ND	432	108	400	3.77	
Sample ID: SP 4 @ 16 (H	702583-26)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	09/26/2017	ND	432	108	400	3.77	
Sample ID: SP 4 @ 17 (H	702583-27)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	09/26/2017	ND	432	108	400	3.77	

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Received: 09/22/2017 Sampling Date: 09/19/2017

Reported: 09/29/2017 Sampling Type: Soil

Project Name: CEDAR CANYON 29 FED COM #3H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY

Sample ID: SP 4 @ 18 (H702583-28)

BTEX 8021B	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2017	ND	2.18	109	2.00	2.29	
Toluene*	<0.050	0.050	09/27/2017	ND	1.96	98.0	2.00	2.86	
Ethylbenzene*	<0.050	0.050	09/27/2017	ND	1.98	98.9	2.00	3.52	
Total Xylenes*	<0.150	0.150	09/27/2017	ND	6.02	100	6.00	2.83	
Total BTEX	<0.300	0.300	09/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 72-148							
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/26/2017	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/24/2017	ND	189	94.7	200	2.55	
DRO >C10-C28	<10.0	10.0	09/24/2017	ND	196	97.8	200	0.898	
EXT DRO >C28-C36	<10.0	10.0	09/24/2017	ND					
Surrogate: 1-Chlorooctane	66.8	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	68.3	% 34.7-15	7						

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Received: 09/22/2017 Sampling Date: 09/19/2017

Reported: 09/29/2017 Sampling Type: Soil

Project Name: CEDAR CANYON 29 FED COM #3H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: EDDY COUNTY

ma/ka

Sample ID: SP 5 @ 1 (H702583-29)

RTFY 8021R

BIEX 8021B	mg/	кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2017	ND	2.18	109	2.00	2.29	
Toluene*	<0.050	0.050	09/27/2017	ND	1.96	98.0	2.00	2.86	
Ethylbenzene*	<0.050	0.050	09/27/2017	ND	1.98	98.9	2.00	3.52	
Total Xylenes*	<0.150	0.150	09/27/2017	ND	6.02	100	6.00	2.83	
Total BTEX	<0.300	0.300	09/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 72-148	,						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1220	16.0	09/26/2017	ND	432	108	400	3.77	
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	09/24/2017	ND	189	94.7	200	2.55	
DRO >C10-C28	<10.0	10.0	09/24/2017	ND	196	97.8	200	0.898	
EXT DRO >C28-C36	<10.0	10.0	09/24/2017	ND					
Surrogate: 1-Chlorooctane	78.7	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	82.2	% 34.7-15	7						

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Fax To: (575) 397-0397

Received: 09/22/2017 Sampling Date: 09/19/2017

Reported: 09/29/2017 Sampling Type: Soil Project Name: CEDAR CANYON 29 FED COM #3H Sampling Condition:

Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: **EDDY COUNTY**

Sample ID: SP 5 @ 2 (H702583-30)

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	09/27/2017	ND	2.18	109	2.00	2.29	
Toluene*	<0.050	0.050	09/27/2017	ND	1.96	98.0	2.00	2.86	
Ethylbenzene*	<0.050	0.050	09/27/2017	ND	1.98	98.9	2.00	3.52	
Total Xylenes*	<0.150	0.150	09/27/2017	ND	6.02	100	6.00	2.83	
Total BTEX	<0.300	0.300	09/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 72-148							
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	09/26/2017	ND	432	108	400	3.77	
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	09/24/2017	ND	189	94.7	200	2.55	
DRO >C10-C28	<10.0	10.0	09/24/2017	ND	196	97.8	200	0.898	
EXT DRO >C28-C36	<10.0	10.0	09/24/2017	ND					
Surrogate: 1-Chlorooctane	74.2	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	76.1	% 34.7-15	7						

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Fax To: (575) 397-0397

Received: 09/22/2017 Sampling Date: 09/19/2017

Reported: 09/29/2017 Sampling Type: Soil

Project Name: CEDAR CANYON 29 FED COM #3H Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: **EDDY COUNTY**

Sample ID: SP 5 @ 3 (H702583-31)

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	09/27/2017	ND	2.02	101	2.00	0.960	
Toluene*	<0.050	0.050	09/27/2017	ND	1.83	91.5	2.00	1.28	
Ethylbenzene*	<0.050	0.050	09/27/2017	ND	1.87	93.7	2.00	0.0696	
Total Xylenes*	<0.150	0.150	09/27/2017	ND	5.68	94.7	6.00	0.269	
Total BTEX	<0.300	0.300	09/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 72-148							
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1440	16.0	09/26/2017	ND	432	108	400	3.77	
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	09/24/2017	ND	189	94.7	200	2.55	
DRO >C10-C28	<10.0	10.0	09/24/2017	ND	196	97.8	200	0.898	
EXT DRO >C28-C36	<10.0	10.0	09/24/2017	ND					
Surrogate: 1-Chlorooctane	63.0	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	69.1	% 34.7-15	7						

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Received: 09/22/2017 Sampling Date: 09/19/2017

Reported: 09/29/2017 Sampling Type: Soil

Project Name: CEDAR CANYON 29 FED COM #3H Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: **EDDY COUNTY**

Sample ID: SP 5 @ 4 (H702583-32)

BTEX 8021B	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2017	ND	2.02	101	2.00	0.960	
Toluene*	<0.050	0.050	09/27/2017	ND	1.83	91.5	2.00	1.28	
Ethylbenzene*	<0.050	0.050	09/27/2017	ND	1.87	93.7	2.00	0.0696	
Total Xylenes*	<0.150	0.150	09/27/2017	ND	5.68	94.7	6.00	0.269	
Total BTEX	<0.300	0.300	09/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 72-148							
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1420	16.0	09/26/2017	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/24/2017	ND	189	94.7	200	2.55	
DRO >C10-C28	<10.0	10.0	09/24/2017	ND	196	97.8	200	0.898	
EXT DRO >C28-C36	<10.0	10.0	09/24/2017	ND					
Surrogate: 1-Chlorooctane	65.4	% 28.3-16-	4						
Surrogate: 1-Chlorooctadecane	67.8	% 34.7-15	7						

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Received: 09/22/2017 Sampling Date: 09/19/2017

Reported: 09/29/2017 Sampling Type: Soil

Project Name: CEDAR CANYON 29 FED COM #3H Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: **EDDY COUNTY**

Sample ID: SP 5 @ 5 (H702583-33)

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	09/27/2017	ND	2.02	101	2.00	0.960	
Toluene*	<0.050	0.050	09/27/2017	ND	1.83	91.5	2.00	1.28	
Ethylbenzene*	<0.050	0.050	09/27/2017	ND	1.87	93.7	2.00	0.0696	
Total Xylenes*	<0.150	0.150	09/27/2017	ND	5.68	94.7	6.00	0.269	
Total BTEX	<0.300	0.300	09/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 72-148							
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1280	16.0	09/26/2017	ND	432	108	400	3.77	
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	09/24/2017	ND	189	94.7	200	2.55	
DRO >C10-C28	<10.0	10.0	09/24/2017	ND	196	97.8	200	0.898	
EXT DRO >C28-C36	<10.0	10.0	09/24/2017	ND					
Surrogate: 1-Chlorooctane	47.4	% 28.3-16-	4						
Surrogate: 1-Chlorooctadecane	48.2	% 34.7-15	7						

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Received: 09/22/2017 Sampling Date: 09/19/2017

Reported: 09/29/2017 Sampling Type: Soil

Project Name: CEDAR CANYON 29 FED COM #3H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY

Sample ID: SP 5 @ 6 (H702583-34)

Chloride, SM4500CI-B	mg	mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	09/26/2017	ND	432	108	400	3.77	
Sample ID: SP 5 @ 7 (H7	02583-35)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	09/26/2017	ND	432	108	400	3.77	
Sample ID: SP 5 @ 8 (H7	02583-36)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	09/26/2017	ND	432	108	400	3.77	
Sample ID: SP 5 @ 13 (H	702583-37)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	09/26/2017	ND	432	108	400	3.77	

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Received: 09/22/2017 Sampling Date: 09/19/2017

Reported: 09/29/2017 Sampling Type: Soil

Project Name: CEDAR CANYON 29 FED COM #3H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY

Sample ID: SP 5 @ 18 (H702583-38)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2017	ND	2.02	101	2.00	0.960	
Toluene*	<0.050	0.050	09/27/2017	ND	1.83	91.5	2.00	1.28	
Ethylbenzene*	<0.050	0.050	09/27/2017	ND	1.87	93.7	2.00	0.0696	
Total Xylenes*	<0.150	0.150	09/27/2017	ND	5.68	94.7	6.00	0.269	
Total BTEX	<0.300	0.300	09/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 72-148	}						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	09/26/2017	ND	432	108	400	3.77	
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	09/24/2017	ND	189	94.7	200	2.55	
DRO >C10-C28	<10.0	10.0	09/24/2017	ND	196	97.8	200	0.898	
EXT DRO >C28-C36	<10.0	10.0	09/24/2017	ND					
Surrogate: 1-Chlorooctane	61.2	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	69.8	% 34.7-15	7						

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Received: 09/22/2017 Sampling Date: 09/20/2017

Reported: 09/29/2017 Sampling Type: Soil

Project Name: CEDAR CANYON 29 FED COM #3H Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Tamara Oldaker

Project Location: **EDDY COUNTY**

Sample ID: SP 6 @ SURFACE (H702583-39)

BTEX 8021B	mg/	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2017	ND	2.02	101	2.00	0.960	
Toluene*	<0.050	0.050	09/27/2017	ND	1.83	91.5	2.00	1.28	
Ethylbenzene*	<0.050	0.050	09/27/2017	ND	1.87	93.7	2.00	0.0696	
Total Xylenes*	<0.150	0.150	09/27/2017	ND	5.68	94.7	6.00	0.269	
Total BTEX	<0.300	0.300	09/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 72-148	3						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	09/26/2017	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/25/2017	ND	189	94.7	200	2.55	
DRO >C10-C28	<10.0	10.0	09/25/2017	ND	196	97.8	200	0.898	
EXT DRO >C28-C36	<10.0	10.0	09/25/2017	ND					
Surrogate: 1-Chlorooctane	61.6	% 28.3-16	54						
Surrogate: 1-Chlorooctadecane	69.4	% 34.7-15	7						

Surrogate: 1-Chlorooctadecane

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Received: 09/22/2017 Sampling Date: 09/20/2017

Reported: 09/29/2017 Sampling Type: Soil

Project Name: CEDAR CANYON 29 FED COM #3H Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: **EDDY COUNTY**

Sample ID: SP 6 @ 1 (H702583-40)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2017	ND	2.02	101	2.00	0.960	
Toluene*	<0.050	0.050	09/27/2017	ND	1.83	91.5	2.00	1.28	
Ethylbenzene*	<0.050	0.050	09/27/2017	ND	1.87	93.7	2.00	0.0696	
Total Xylenes*	<0.150	0.150	09/27/2017	ND	5.68	94.7	6.00	0.269	
Total BTEX	<0.300	0.300	09/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	6 72-148	}						
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	09/26/2017	ND	432	108	400	3.77	
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	09/25/2017	ND	189	94.7	200	2.55	
DRO >C10-C28	<10.0	10.0	09/25/2017	ND	196	97.8	200	0.898	
EXT DRO >C28-C36	<10.0	10.0	09/25/2017	ND					
Surrogate: 1-Chlorooctane	50.3 %	6 28.3-16	4						
Surrogate: 1-Chlorooctadecane	60 3 9	% 34 7-15	7						

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Received: 09/22/2017 Sampling Date: 09/20/2017

Reported: 09/29/2017 Sampling Type: Soil

Project Name: CEDAR CANYON 29 FED COM #3H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY

Sample ID: SP 6 @ 6 (H702583-41)

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	09/27/2017	ND	2.02	101	2.00	0.960	
Toluene*	<0.050	0.050	09/27/2017	ND	1.83	91.5	2.00	1.28	
Ethylbenzene*	<0.050	0.050	09/27/2017	ND	1.87	93.7	2.00	0.0696	
Total Xylenes*	<0.150	0.150	09/27/2017	ND	5.68	94.7	6.00	0.269	
Total BTEX	<0.300	0.300	09/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 72-148	}						
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	09/26/2017	ND	432	108	400	3.77	
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	09/25/2017	ND	189	94.7	200	2.55	
DRO >C10-C28	<10.0	10.0	09/25/2017	ND	196	97.8	200	0.898	
EXT DRO >C28-C36	<10.0	10.0	09/25/2017	ND					
Surrogate: 1-Chlorooctane	61.7	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	68.4	% 34.7-15	7						

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Received: 09/22/2017 Sampling Date: 09/20/2017

Reported: 09/29/2017 Sampling Type: Soil

Project Name: CEDAR CANYON 29 FED COM #3H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: EDDY COUNTY

ma/ka

Sample ID: SP 6 @ 11 (H702583-42)

RTFY 8021R

B1EX 8021B	тд/кд		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2017	ND	2.02	101	2.00	0.960	
Toluene*	<0.050	0.050	09/27/2017	ND	1.83	91.5	2.00	1.28	
Ethylbenzene*	<0.050	0.050	09/27/2017	ND	1.87	93.7	2.00	0.0696	
Total Xylenes*	<0.150	0.150	09/27/2017	ND	5.68	94.7	6.00	0.269	
Total BTEX	<0.300	0.300	09/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 72-148	,						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/26/2017	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	09/25/2017	ND	189	94.7	200	2.55	
DRO >C10-C28	<10.0	10.0	09/25/2017	ND	196	97.8	200	0.898	
EXT DRO >C28-C36	<10.0	10.0	09/25/2017	ND					
Surrogate: 1-Chlorooctane	55.6	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	60.8	% 34.7-15	7						

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Fax To: (575) 397-0397

Received: 09/22/2017 Sampling Date: 09/20/2017

Reported: 09/29/2017 Sampling Type: Soil

Project Name: CEDAR CANYON 29 FED COM #3H Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: **EDDY COUNTY**

Sample ID: SP 7 @ SURFACE (H702583-43)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2017	ND	2.02	101	2.00	0.960	
Toluene*	<0.050	0.050	09/27/2017	ND	1.83	91.5	2.00	1.28	
Ethylbenzene*	<0.050	0.050	09/27/2017	ND	1.87	93.7	2.00	0.0696	
Total Xylenes*	<0.150	0.150	09/27/2017	ND	5.68	94.7	6.00	0.269	
Total BTEX	<0.300	0.300	09/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 72-148							
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/26/2017	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	09/25/2017	ND	189	94.7	200	2.55	
DRO >C10-C28	138	10.0	09/25/2017	ND	196	97.8	200	0.898	
EXT DRO >C28-C36	59.6	10.0	09/25/2017	ND					
Surrogate: 1-Chlorooctane	69.3	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	88.8	% 34.7-15	7						

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Received: 09/22/2017 Sampling Date: 09/20/2017

Reported: 09/29/2017 Sampling Type: Soil

Project Name: CEDAR CANYON 29 FED COM #3H Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: **EDDY COUNTY**

Sample ID: SP 7 @ 1 (H702583-44)

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	09/27/2017	ND	2.02	101	2.00	0.960	
Toluene*	<0.050	0.050	09/27/2017	ND	1.83	91.5	2.00	1.28	
Ethylbenzene*	<0.050	0.050	09/27/2017	ND	1.87	93.7	2.00	0.0696	
Total Xylenes*	<0.150	0.150	09/27/2017	ND	5.68	94.7	6.00	0.269	
Total BTEX	<0.300	0.300	09/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 72-148							
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/26/2017	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	09/25/2017	ND	189	94.7	200	2.55	
DRO >C10-C28	<10.0	10.0	09/25/2017	ND	196	97.8	200	0.898	
EXT DRO >C28-C36	<10.0	10.0	09/25/2017	ND					
Surrogate: 1-Chlorooctane	51.7	% 28.3-16-	4						
Surrogate: 1-Chlorooctadecane	56.9	% 34.7-15	7						

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Received: 09/22/2017 Sampling Date: 09/20/2017

Reported: 09/29/2017 Sampling Type: Soil Project Name: CEDAR CANYON 29 FED COM #3H Sampling Condition:

Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: **EDDY COUNTY**

Sample ID: SP 7 @ 6 (H702583-45)

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	09/28/2017	ND	2.02	101	2.00	0.960	
Toluene*	<0.050	0.050	09/28/2017	ND	1.83	91.5	2.00	1.28	
Ethylbenzene*	<0.050	0.050	09/28/2017	ND	1.87	93.7	2.00	0.0696	
Total Xylenes*	<0.150	0.150	09/28/2017	ND	5.68	94.7	6.00	0.269	
Total BTEX	<0.300	0.300	09/28/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	6 72-148							
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	09/26/2017	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	09/25/2017	ND	181	90.6	200	1.81	
DRO >C10-C28	<10.0	10.0	09/25/2017	ND	198	99.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	09/25/2017	ND					
Surrogate: 1-Chlorooctane	76.9 9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	88.8 9	% 34.7-15	7						

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Received: 09/22/2017 Sampling Date: 09/20/2017

Reported: 09/29/2017 Sampling Type: Soil

Project Name: CEDAR CANYON 29 FED COM #3H Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: **EDDY COUNTY**

Sample ID: SP 7 @ 11 (H702583-46)

BTEX 8021B	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/28/2017	ND	2.02	101	2.00	0.960	
Toluene*	<0.050	0.050	09/28/2017	ND	1.83	91.5	2.00	1.28	
Ethylbenzene*	<0.050	0.050	09/28/2017	ND	1.87	93.7	2.00	0.0696	
Total Xylenes*	<0.150	0.150	09/28/2017	ND	5.68	94.7	6.00	0.269	
Total BTEX	<0.300	0.300	09/28/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 72-148							
Chloride, SM4500CI-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	09/26/2017	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	09/25/2017	ND	181	90.6	200	1.81	
DRO >C10-C28	<10.0	10.0	09/25/2017	ND	198	99.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	09/25/2017	ND					
Surrogate: 1-Chlorooctane	60.2	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	59.7	% 34.7-15	7						

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Received: 09/22/2017 Sampling Date: 09/20/2017

Reported: 09/29/2017 Sampling Type: Soil

Project Name: CEDAR CANYON 29 FED COM #3H Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: **EDDY COUNTY**

Sample ID: SP 8 @ SURFACE (H702583-47)

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	09/28/2017	ND	2.02	101	2.00	0.960	
Toluene*	< 0.050	0.050	09/28/2017	ND	1.83	91.5	2.00	1.28	
Ethylbenzene*	< 0.050	0.050	09/28/2017	ND	1.87	93.7	2.00	0.0696	
Total Xylenes*	<0.150	0.150	09/28/2017	ND	5.68	94.7	6.00	0.269	
Total BTEX	<0.300	0.300	09/28/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	6 72-148	,						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	09/26/2017	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	09/25/2017	ND	181	90.6	200	1.81	
DRO >C10-C28	<10.0	10.0	09/25/2017	ND	198	99.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	09/25/2017	ND					
Surrogate: 1-Chlorooctane	73.1 9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	74.2 9	% 34.7-15	7						

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Received: 09/22/2017 Sampling Date: 09/20/2017

Reported: 09/29/2017 Sampling Type: Soil

Project Name: CEDAR CANYON 29 FED COM #3H Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: **EDDY COUNTY**

Sample ID: SP 8 @ 1 (H702583-48)

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	09/28/2017	ND	2.02	101	2.00	0.960	
Toluene*	<0.050	0.050	09/28/2017	ND	1.83	91.5	2.00	1.28	
Ethylbenzene*	<0.050	0.050	09/28/2017	ND	1.87	93.7	2.00	0.0696	
Total Xylenes*	<0.150	0.150	09/28/2017	ND	5.68	94.7	6.00	0.269	
Total BTEX	<0.300	0.300	09/28/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 72-148	}						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/26/2017	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	09/25/2017	ND	181	90.6	200	1.81	
DRO >C10-C28	<10.0	10.0	09/25/2017	ND	198	99.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	09/25/2017	ND					
Surrogate: 1-Chlorooctane	73.0	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	77.2	% 34.7-15	7						

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Received: 09/22/2017 Sampling Date: 09/20/2017

Reported: 09/29/2017 Sampling Type: Soil

Project Name: CEDAR CANYON 29 FED COM #3H Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: **EDDY COUNTY**

Sample ID: SP 8 @ 6 (H702583-49)

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	09/28/2017	ND	2.02	101	2.00	0.960	
Toluene*	<0.050	0.050	09/28/2017	ND	1.83	91.5	2.00	1.28	
Ethylbenzene*	<0.050	0.050	09/28/2017	ND	1.87	93.7	2.00	0.0696	
Total Xylenes*	<0.150	0.150	09/28/2017	ND	5.68	94.7	6.00	0.269	
Total BTEX	<0.300	0.300	09/28/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 72-148							
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	09/26/2017	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	09/25/2017	ND	181	90.6	200	1.81	
DRO >C10-C28	<10.0	10.0	09/25/2017	ND	198	99.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	09/25/2017	ND					
Surrogate: 1-Chlorooctane	77.9	% 28.3-16-	4						
Surrogate: 1-Chlorooctadecane	84.0	% 34.7-15	7						

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Received: 09/22/2017 Sampling Date: 09/20/2017

Reported: 09/29/2017 Sampling Type: Soil

Project Name: CEDAR CANYON 29 FED COM #3H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY

Sample ID: SP 8 @ 11 (H702583-50)

BTEX 8021B	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/28/2017	ND	2.02	101	2.00	0.960	
Toluene*	<0.050	0.050	09/28/2017	ND	1.83	91.5	2.00	1.28	
Ethylbenzene*	<0.050	0.050	09/28/2017	ND	1.87	93.7	2.00	0.0696	
Total Xylenes*	<0.150	0.150	09/28/2017	ND	5.68	94.7	6.00	0.269	
Total BTEX	<0.300	0.300	09/28/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 72-148	,						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	09/26/2017	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/25/2017	ND	181	90.6	200	1.81	
DRO >C10-C28	<10.0	10.0	09/25/2017	ND	198	99.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	09/25/2017	ND					
Surrogate: 1-Chlorooctane	73.4	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	77.2	% 34.7-15	7						

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Received: 09/22/2017 Sampling Date: 09/20/2017

Reported: 09/29/2017 Sampling Type: Soil

Project Name: CEDAR CANYON 29 FED COM #3H Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: **EDDY COUNTY**

Sample ID: SP 9 @ 1 (H702583-51)

BTEX 8021B	mg/	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/28/2017	ND	2.02	101	2.00	0.960	
Toluene*	<0.050	0.050	09/28/2017	ND	1.83	91.5	2.00	1.28	
Ethylbenzene*	<0.050	0.050	09/28/2017	ND	1.87	93.7	2.00	0.0696	
Total Xylenes*	<0.150	0.150	09/28/2017	ND	5.68	94.7	6.00	0.269	
Total BTEX	<0.300	0.300	09/28/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 72-148	3						
Chloride, SM4500CI-B	mg/	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	09/26/2017	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/25/2017	ND	181	90.6	200	1.81	
DRO >C10-C28	1090	10.0	09/25/2017	ND	198	99.0	200	1.73	
EXT DRO >C28-C36	224	10.0	09/25/2017	ND					
Surrogate: 1-Chlorooctane	78.6	% 28.3-16	54						
Surrogate: 1-Chlorooctadecane	92.4	% 34.7-15	7						

Surrogate: 1-Chlorooctadecane

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Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 09/22/2017 Sampling Date: 09/20/2017

Reported: 09/29/2017 Sampling Type: Soil

Project Name: CEDAR CANYON 29 FED COM #3H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY

Sample ID: SP 9 @ 2 (H702583-52)

Chloride, SM4500Cl-B mg/kg			Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1620	16.0	09/26/2017	ND	416	104	400	0.00	

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Received: 09/22/2017 Sampling Date: 09/20/2017

Reported: 09/29/2017 Sampling Type: Soil

Project Name: CEDAR CANYON 29 FED COM #3H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY

Sample ID: SP 9 @ 4 (H702583-53)

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	09/28/2017	ND	2.02	101	2.00	0.960	
Toluene*	<0.050	0.050	09/28/2017	ND	1.83	91.5	2.00	1.28	
Ethylbenzene*	<0.050	0.050	09/28/2017	ND	1.87	93.7	2.00	0.0696	
Total Xylenes*	<0.150	0.150	09/28/2017	ND	5.68	94.7	6.00	0.269	
Total BTEX	<0.300	0.300	09/28/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 72-148	}						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	09/26/2017	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	09/25/2017	ND	181	90.6	200	1.81	
DRO >C10-C28	<10.0	10.0	09/25/2017	ND	198	99.0	200	1.73	
EXT DRO >C28-C36	11.4	10.0	09/25/2017	ND					
Surrogate: 1-Chlorooctane	81.3	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	84.6	% 34.7-15	7						

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Received: 09/22/2017 Sampling Date: 09/20/2017

Reported: 09/29/2017 Sampling Type: Soil

Project Name: CEDAR CANYON 29 FED COM #3H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY

Sample ID: SP 9 @ 6 (H702583-54)

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	09/28/2017	ND	2.02	101	2.00	0.960	
Toluene*	<0.050	0.050	09/28/2017	ND	1.83	91.5	2.00	1.28	
Ethylbenzene*	<0.050	0.050	09/28/2017	ND	1.87	93.7	2.00	0.0696	
Total Xylenes*	<0.150	0.150	09/28/2017	ND	5.68	94.7	6.00	0.269	
Total BTEX	<0.300	0.300	09/28/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 72-148	}						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	09/26/2017	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	09/25/2017	ND	181	90.6	200	1.81	
DRO >C10-C28	<10.0	10.0	09/25/2017	ND	198	99.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	09/25/2017	ND					
Surrogate: 1-Chlorooctane	80.1	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	79.3	% 34.7-15	7						

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Fax To: (575) 397-0397

Received: 09/22/2017 Sampling Date: 09/20/2017

Reported: 09/29/2017 Sampling Type: Soil

Project Name: CEDAR CANYON 29 FED COM #3H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY

304

16.0

Sample ID: SP 9 @ 7 (H702583-55)

Chloride

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	09/26/2017	ND	416	104	400	0.00	
Sample ID: SP 9 @ 12 (H	702583-56)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

ND

416

104

400

0.00

09/26/2017

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Received: 09/22/2017 Sampling Date: 09/20/2017

Reported: 09/29/2017 Sampling Type: Soil

Project Name: CEDAR CANYON 29 FED COM #3H Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: **EDDY COUNTY**

Sample ID: SP 9 @ 17 (H702583-57)

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	09/28/2017	ND	2.02	101	2.00	0.960	
Toluene*	<0.050	0.050	09/28/2017	ND	1.83	91.5	2.00	1.28	
Ethylbenzene*	<0.050	0.050	09/28/2017	ND	1.87	93.7	2.00	0.0696	
Total Xylenes*	<0.150	0.150	09/28/2017	ND	5.68	94.7	6.00	0.269	
Total BTEX	<0.300	0.300	09/28/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 72-148	}						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	09/26/2017	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	09/25/2017	ND	181	90.6	200	1.81	
DRO >C10-C28	<10.0	10.0	09/25/2017	ND	198	99.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	09/25/2017	ND					
Surrogate: 1-Chlorooctane	81.3	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	83.2	% 34.7-15	7						

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Received: 09/22/2017 Sampling Date: 09/20/2017

Reported: 09/29/2017 Sampling Type: Soil

Project Name: CEDAR CANYON 29 FED COM #3H Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: **EDDY COUNTY**

Sample ID: NORTH @ SURFACE (H702583-58)

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	09/28/2017	ND	2.02	101	2.00		
Toluene*	< 0.050	0.050	09/28/2017	ND	1.86	92.9	2.00		
Ethylbenzene*	< 0.050	0.050	09/28/2017	ND	1.89	94.3	2.00		
Total Xylenes*	<0.150	0.150	09/28/2017	ND	5.72	95.3	6.00		
Total BTEX	<0.300	0.300	09/28/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	6 72-148	}						
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	09/26/2017	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	09/25/2017	ND	181	90.6	200	1.81	
DRO >C10-C28	<10.0	10.0	09/25/2017	ND	198	99.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	09/25/2017	ND					
Surrogate: 1-Chlorooctane	69.7 %	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	69 9 9	% 34 7-15	7						

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Received: 09/22/2017 Sampling Date: 09/20/2017

Reported: 09/29/2017 Sampling Type: Soil

Project Name: CEDAR CANYON 29 FED COM #3H Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: **EDDY COUNTY**

Sample ID: EAST @ SURFACE (H702583-59)

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	09/28/2017	ND	2.02	101	2.00		
Toluene*	<0.050	0.050	09/28/2017	ND	1.86	92.9	2.00		
Ethylbenzene*	<0.050	0.050	09/28/2017	ND	1.89	94.3	2.00		
Total Xylenes*	<0.150	0.150	09/28/2017	ND	5.72	95.3	6.00		
Total BTEX	<0.300	0.300	09/28/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 72-148	}						
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	09/26/2017	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	09/25/2017	ND	181	90.6	200	1.81	
DRO >C10-C28	<10.0	10.0	09/25/2017	ND	198	99.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	09/25/2017	ND					
Surrogate: 1-Chlorooctane	73.1	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	73.2	% 34.7-15	7						

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Received: 09/22/2017 Sampling Date: 09/20/2017

Reported: 09/29/2017 Sampling Type: Soil

Project Name: CEDAR CANYON 29 FED COM #3H Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: NONE GIVEN

Project Location: **EDDY COUNTY**

Sample ID: WEST @ SURFACE (H702583-60)

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	09/28/2017	ND	2.02	101	2.00		
Toluene*	<0.050	0.050	09/28/2017	ND	1.86	92.9	2.00		
Ethylbenzene*	<0.050	0.050	09/28/2017	ND	1.89	94.3	2.00		
Total Xylenes*	<0.150	0.150	09/28/2017	ND	5.72	95.3	6.00		
Total BTEX	<0.300	0.300	09/28/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	6 72-148	}						
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	09/26/2017	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	09/25/2017	ND	181	90.6	200	1.81	
DRO >C10-C28	<10.0	10.0	09/25/2017	ND	198	99.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	09/25/2017	ND					
Surrogate: 1-Chlorooctane	70.1 %	6 28.3-16	4						
Surrogate: 1-Chlorooctadecane	70 3 9	% 3 <i>4 7-15</i>	7						

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Received: 09/22/2017 Sampling Date: 09/20/2017

Reported: 09/29/2017 Sampling Type: Soil

Project Name: CEDAR CANYON 29 FED COM #3H Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: **EDDY COUNTY**

Sample ID: SOUTH @ SURFACE (H702583-61)

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	09/28/2017	ND	2.02	101	2.00		
Toluene*	< 0.050	0.050	09/28/2017	ND	1.86	92.9	2.00		
Ethylbenzene*	< 0.050	0.050	09/28/2017	ND	1.89	94.3	2.00		
Total Xylenes*	<0.150	0.150	09/28/2017	ND	5.72	95.3	6.00		
Total BTEX	<0.300	0.300	09/28/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	6 72-148	}						
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	09/26/2017	ND	400	100	400	3.92	
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	09/25/2017	ND	181	90.6	200	1.81	
DRO >C10-C28	<10.0	10.0	09/25/2017	ND	198	99.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	09/25/2017	ND					
Surrogate: 1-Chlorooctane	73.3 %	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	73 9 9	% 34 7-15	7						

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Notes and Definitions

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(5	(505) 393-2326 FAX (505) 393-2476		BILL TO	111	A	ANALYSIS REQUEST	1
Company Name:	BBC International, Inc.			-	_		
Project Manager:	Cliff Brunson		7.0.		_		_
Address: P.O.	Box 805		Company:	\			
City: Hobbs	State: NM	47	Attn: DYD F				
Phone #: 575-3	575-397-6388 Fax #: 575	575-397-0397	Address:				_
Disciont #	Project Owner:	024	City:		_		_
Project Name: (Pring	Cannaca	のかサスチ	State: Zip:		_		
Project Name.	or Comment		Phone #:				_
Project Location:	Eddin (1)		Fax #:				_
Sampler Name:	JEH Ornews	MATRIX	PRESERV. SAMPLING	G			_
FOR LAB USE ONLY		R R					
Lab I.D.	Sample I.D.)RAB OR (C) CONTAINER ROUNDWAT ASTEWATER OIL IL LUDGE	CID/BASE: CE / COOL OTHER:	TIME	BT+X TPH		
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	(To
and the standing	ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476

(505) 393-2326 FAX (505) 393-2476		ANALYSIS REQUEST
Company Name: RRC International, Inc.	BILL 10	
Project Manager: Cliff Brunson	P.O. #:	
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PO Rox 805	Company: Oxy	
Address: 1.0.000	+	

(505) 393-2326 FAX (505) 393-2476			ANALYSIS REQUEST
Company Name: BBC International, Inc.		BILL TO	
22.0	P.O. #:		
w	Company: (
bbs State: N	Zip: 88241		
5-397-6388 Fax#:	575-397-0397 Address:		
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Project Manager: Cliff Brunson		
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Project Manager:	Cliff Brunson		P.O. #:			_
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City: Hobbs	State: NM	Zip: 88241	Attn: DI	Pilo		_
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

	(505) 393-2326 FAX (505) 393-2476		200		ANALYSIS REQUEST
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Project Manager:	Cliff Brunson	P.C	P.O. #:		
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city: Hobbs	State: NM	Zip: 88241 Attn:	In: DANION		
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(505) 393-2326 FAX (505) 393-2476			AN	ANALYSIS REQUEST	
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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	Cliff Brunson		P.O. #:		_		
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2000	DIS - Office		_				

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From: Bratcher, Mike, EMNRD

To: Cliff Brunson; Shelly Tucker

Cc: Weaver, Crystal, EMNRD; Wade Dittrich; Jennifer Smith@oxy.com; Ken Swinney; Jennifer Gilkey; Kathy Purvis

Subject: RE: OXY Cedar Canyon 29 Fed Com #3H (2RP-4339) - Delineation Workplan

Date: Monday, March 5, 2018 11:08:17 AM

RE: OXY USA * Cedar Canyon 29 Fed Com 3H * **2RP-4339** * DOR: 8/5/17

Cliff,

Your proposal for remediation of the above referenced release is approved. Federal sites will require like approval from BLM.

Mike Bratcher NMOCD District 2 811 South First Street Artesia, NM 88210 575~748~1283 Ext 108

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: Cliff Brunson [mailto:cbrunson@bbcinternational.com]

Sent: Tuesday, November 28, 2017 6:16 PM

To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Shelly Tucker <stucker@blm.gov>

Cc: Weaver, Crystal, EMNRD < Crystal. Weaver@state.nm.us>; Wade Dittrich

<Wade_Dittrich@oxy.com>; Jennifer_Smith@oxy.com; Ken Swinney

<kswinney@bbcinternational.com>; Jennifer Gilkey <jgilkey@bbcinternational.com>; Kathy Purvis

<kathy@bbcinternational.com>

Subject: OXY Cedar Canyon 29 Fed Com #3H (2RP-4339) - Delineation Workplan

Mike and Shelly,

Please find the attached Delineation Workplan and remediation proposal for the OXY Cedar Canyon 29 Fed Com #3H (2RP-4339). OXY is requesting that you review this plan and is looking forward to both the OCD's and BLM's approval.

If you have any questions, please let me know.

Thanks, Cliff

BBC International, Inc.
World-Wide Environmental Specialists
Mailing Address:
P. O. Box 805
Hobbs, NM 88241-0805 USA
Shipping Address:
1324 W. Marland St.
Hobbs, NM 88240 USA

Phone: (575) 397-6388 Fax: (575) 397-0397

E-Mail: cbrunson@bbcinternational.com



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From: Tucker, Shelly To: Cliff Brunson

Cc: Mike Bratcher; Crystal Weaver; Wade Dittrich; Jennifer Smith@oxy.com; Ken Swinney; Jennifer Gilkey; Kathy

Purvis

Subject: Re: OXY Cedar Canyon 29 Fed Com #3H (2RP-4339) - Delineation Workplan

Date: Tuesday, December 26, 2017 4:13:25 PM

BLM approves your delineation plan for the OXY Cedar Canyon 29 Fed Com #3H (2RP-4339)

If you have any questions or concerns, please do not hesitate to contact me.

Sincerely,

Shelly J'Tucker

Environmental Protection Specialist O&G Spill/Release Coordinator

Bureau of Land Management 620 E. Greene St Carlsbad, NM 88220

575.234.5905 - Direct 575.361.0084 - Cellular 575.234.6235 - Emergency Spill Number

stucker@blm.gov

The **BLM acceptance/approval does not** relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment or if the location fails to reclaim properly. In such an event that the location does not revegetate, or future issues with contaminants are encountered, the operator will be asked to address the issues until the contaminant issues are fully mitigated and the location is successfully reclaimed. In addition, BLM approval does not relieve the operator of responsibility for compliance with any other federal, state or local laws/regulations.

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On Tue, Nov 28, 2017 at 6:15 PM, Cliff Brunson < cbrunson@bbcinternational.com> wrote:

Mike and Shelly,

Please find the attached Delineation Workplan and remediation proposal for the OXY Cedar Canyon 29 Fed Com #3H (2RP-4339). OXY is requesting that you review this plan and is looking forward to both the OCD's and BLM's approval.

If you have any questions, please let me know.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS

President

BBC International, Inc.

World-Wide Environmental Specialists

Mailing Address:

P. O. Box 805

Hobbs, NM 88241-0805 USA

Shipping Address:

1324 W. Marland St.

Hobbs, NM 88240 USA

Phone: (575) 397-6388

Fax: (575) 397-0397

E-Mail: cbrunson@bbcinternational.com



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