

ENVIRONMENTAL PLUS, INC.

2100 Ave 'O'
P.O. Box 1558
Eunice, NM 88231
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INFORMATION ONLY

Site Characterization and Work Plan

**Cameron Oil & Gas
Langlie Mattix 4 Federal 1
Lea County, New Mexico
Unit Letter "L" Section 4, Township 23 South, Range 37 East
Latitude 32.330700° North, Longitude -103.174028° West**

Prepared For:

Cameron Oil & Gas
P.O. Box 1455
Roswell, NM. 88202-1455

Prepared By:

Environmental Plus, Inc.
2100 Ave 'O'
Eunice, NM 88231

October 2017

Brandon Boone
Project Manager



The following *Site Characterization and Work Plan* serves as a condensed update on field activities undertaken and proposed actions for the afore referenced Site.

Background:

The site is located in Unit Letter L, Section 4, Township 23 South, Range 37 East, approximately six miles south of Eunice, in Lea County, New Mexico. Cameron Oil & Gas owns the property.

The release site is located on the caliche pad on an active disposal well; latitude 32.330700° North, longitude -103.174028° West. Area Map, Site Location Map, and Sample/Site Map are included as Figure 1, Figure 2, respectively. The Initial NMOCD Form C-141 is included as Attachment IV.

NMOCD Site Classification:

A search for water wells was completed utilizing the New Mexico Office of the State Engineer's (NMOSE) website. There is one well located in the area surrounding the release site (reference *Table I*). Also, no wells (domestic, agriculture or public) and no bodies of surface water exist within a 1,000-foot radius of the release site (reference *Figure 2*). The USGS database located no wells within the surrounding area. The NMOSE database indicates average water depth is approximately 60 feet below ground surface (bgs) within a 1000-meter radius (reference *Attachment II*). However, as this is too great a distance to accurately determine depth to water for this location as the closest documented well is 209 meters away, the OSE website was used to determine water to be over 100 ft. bgs.

Utilizing this information, the NMOCD guidelines indicate the Langlie Mattix 4 Fed 1 release site to have a ranking score of zero. Based on this score, the NMOCD Recommended Remedial Action Levels (RRALs) for delineation at this Site were determined as follows: Benzene – 10 mg/Kg, BTEX – 50 mg/Kg, TPH – 5,000 mg/Kg, and Chloride – 600 mg/Kg.

The visually stained area totals an area of approximately 1,263 square feet. The area is caliche approximately two feet thick on the pad.

Delineation Progress:

On September 14, 2017 to September 18, 2017 EPI personnel mobilized on site to collect soil samples to determine the vertical extent of contamination. A total of forty soil samples were collected from six sample locations; SP1 – SP8. Refusal was met at 23 ft. bgs at sample point 2. Two soil samples from each sample location were sent to Cardinal Labs in Hobbs, New Mexico, for testing. Laboratory analytical results indicate Chlorides above NMOCD RRALs (reference *Figure 3* and *Table 2*).

Portions of select soil samples were field tested for organic vapors and chloride concentrations. Soil samples collected for field testing of organic vapors were placed in self-sealing polyethylene

bags and allowed to equilibrate to ~70° F. Field testing of organic vapors utilized a Mini-Rae™ Photoionization Detector (PID) equipped with a 10.6 electron-volt (eV) calibrated for benzene response. Chloride concentrations were determined via use of a LaMotte Chloride Kit (Titration Method).

Soil samples designated for laboratory analyses were collected into laboratory provided glass containers, labeled and inserted into self-sealing polyethylene bags, placed in a cooler, chilled and transported to an independent laboratory for quantification of contaminant concentrations under Chain-of-Custody protocol.

Proposed Actions:

Based on field testing and laboratory analytical data, removal of 1 ft. of material from inside of berm. At the conclusions of excavation activities, the excavation will be backfilled with select caliche to finish grade. All further actions wish to be deferred to abandonment of the battery and surface equipment be removed.

Backfill soil will be free of deleterious material or rocks or large clumps. Backfilling will continue until the excavation is closed.

Revegetation Plan:

As the area in question is a tank battery on an active lease pad, no seeding will be required.

Noxious Weed Management Plan:

In an effort to prevent the spread of noxious weeds such as African Rue, Siberian Elm, Jointed Goatgrass, Russian Olive, Camelthorn, Saltcedar, Starthistle varieties, Hoary Cress and Russian Knapweed, the area will be confirmed to be clear of any noxious weeds. If any are located they will be removed by hand and the area treated with an appropriate herbicide. After a period of three months the area will be examined for noxious weed growth and re-treated if any growth has occurred.

Following completion of NMOCD and NMSLO approved Proposed Actions, EPI will provide a detailed *Final Closure Report* to Vanguard, NMOCD, and NMSLO personnel. Vanguard and EPI personnel would welcome an opportunity to briefly discuss the *Work Plan* at your earliest convenience.

Should you have any questions or concerns please feel free to contact me at (575) 390-7865 or via e-mail bboone.emp@gmail.com or Mr. David Sweeney at (575)420-1108. All official communication should be addressed to:

Mr. David Sweeney
Cameron Oil & Gas
PO Box 1455
Roswell, NM. 88202-1455

Sincerely,

ENVIRONMENTAL PLUS, INC.

Brandon Boone
Environmental Consultant

cc: Olivia Yu, Environmental Specialist – NMOCD District 1, Hobbs, NM
David Sweeney-Cameron Oil & Gas
File

Encl.: Figure 1 – Area Map
Figure 2 – Sample/Site Map
Table 1 – Well Data
Table 2 – Summary of Soil Sample Field Testing and Laboratory Analytical Results
Attachment I – Photographs
Attachment II – NMOSE Average Depth to Groundwater, USGS Well Sites
Attachment III – Laboratory Analytical Results
Attachment IV – Copy of Initial NMOCD Form C-141

FIGURES

Figure 1

Cameron Oil & Gas
Langlie Mattix 4 Fed 1
UL "L", Sec 4, 23S-37E
N 32.330700 W -103.174028
Elevation 3,328 AMSL

Legend

● Langlie Mattix 4 Fed 1

Langlie Mattix 4 Fed 1

Salsman Rd

Red Raiders Ln

18

207



4000 ft

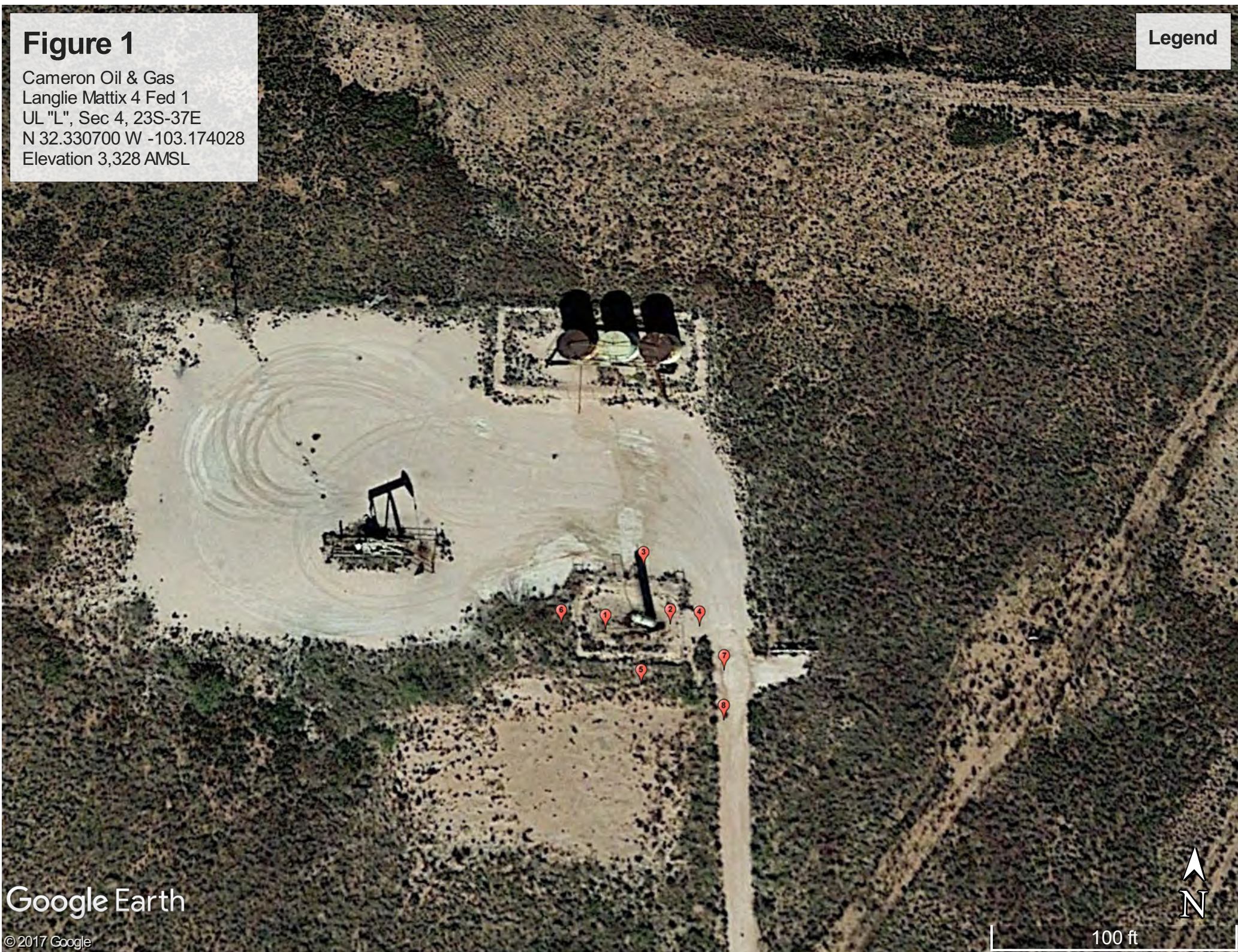
Google Earth

© 2017 Google

Figure 1

Cameron Oil & Gas
Langlie Mattix 4 Fed 1
UL "L", Sec 4, 23S-37E
N 32.330700 W -103.174028
Elevation 3,328 AMSL

Legend



Google Earth

© 2017 Google

100 ft



TABLES

TABLE 1

Well Data

Vanguard - Karlsbad Corral SWD 2

Ref #	Well Number	Use	Diversion ^A	Owner	q6 4	q1 6	q4	Sec	Twsp	Rng	Easting	Northing	Distance ^B	Date Measured	Surface Elevation ^C	Depth to Water (ft bgs)
1	CP00816	PRO	0	Texaco Exploration and Production			3	4	23S	37E	672043	3578457	209		3,328	
2	CP00372	NOT	0	Mrs. George Weir		4	4	5	23S	37E	671442	3578249	518		3,328	
3	CP00762	PRO	0	Texaco		1	1	9	23S	37E	671849	3577854	703		3,328	100
4	CP00389	PLS	3	Ross L Robinson	3	1	1	8	23S	37E	671723	3579362	816		3,328	
5	CP00373	PDL	3	Mrs. George Weir	0	2	2	8	23S	37E	671449	3577847	820		3,328	
6	CP00371	PLS	3	Mrs. George Weir		1	4	5	23S	37E	671035	3578644	828		3,328	

ew Mexico Office of the State Engineer websites

e feet per annum ^B = In meters ^C = Elevation interpolated from Google Earth based on referenced location.

-1 Livestock watering

V, 4=SE; quarters are smallest to biggest

d on the NM iwaters website

s wells not shown in Figure 2

Monitoring Well

or development of Natural Resource

= Industrial

1 72-12-1 Domestic

Oil Production

TABLE 2
Summary of Soil Sample Field Testing and Laboratory Analytical Results
Vanguard
Langlie Mattix 4 Fed 1

Lab Sample ID	Depth (feet)	Soil Status	Sample Date	PID Reading (ppm)	Field Chloride (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	GRO C6-C10 (mg/Kg)	DRO C10-C28 (mg/Kg)	EXT DRO >C28-C36 (mg/Kg)	Chloride (mg/Kg)
SP1	Surface	In-Situ	14-Sep-17	75.6	400	--	--	--	--	--	173	26500	6450	432
	1	In-Situ	14-Sep-17	518.0	880	--	--	--	--	--	--	--	--	--
	2	In-Situ	14-Sep-17	675.0	960	--	--	--	--	--	--	--	--	--
	3	In-Situ	14-Sep-17	465.0	1,280	--	--	--	--	--	--	--	--	--
	4	In-Situ	14-Sep-17	70.5	880	--	--	--	--	--	--	--	--	--
	5	In-Situ	14-Sep-17	285.0	1,280	--	--	--	--	--	--	--	--	--
	6	In-Situ	14-Sep-17	343.0	800	--	--	--	--	--	--	--	--	--
	14	In-Situ	15-Sep-17	0.0	1,680	--	--	--	--	--	--	--	--	--
	18	In-Situ	15-Sep-17	0.0	1,680	--	--	--	--	--	--	--	--	--
	26	In-Situ	15-Sep-17	0.0	1,280	--	--	--	--	--	--	--	--	--
	34	In-Situ	15-Sep-17	0.0	1,840	--	--	--	--	--	--	14.1	39.1	464
SP2	Surface	In-Situ	14-Sep-17	0.0	320	--	--	--	--	--	--	2150.0	919.0	240
	2	In-Situ	14-Sep-17	0.0	480	--	--	--	--	--	--	--	--	--
	3	In-Situ	14-Sep-17	0.0	1,200	--	--	--	--	--	--	--	--	--
	4	In-Situ	14-Sep-17	0.0	800	--	--	--	--	--	--	--	--	--
	5	In-Situ	14-Sep-17	0.0	1,280	--	--	--	--	--	--	--	--	--
	6	In-Situ	14-Sep-17	0.0	3,200	--	--	--	--	--	--	--	--	--
	7	In-Situ	14-Sep-17	0.0	2,000	--	--	--	--	--	--	--	--	--
	8	In-Situ	14-Sep-17	0.0	2,960	--	--	--	--	--	--	--	--	--

TABLE 2
Summary of Soil Sample Field Testing and Laboratory Analytical Results
Vanguard
Langlie Mattix 4 Fed 1

Lab Sample ID	Depth (feet)	Soil Status	Sample Date	PID Reading (ppm)	Field Chloride (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	GRO C6-C10 (mg/Kg)	DRO C10-C28 (mg/Kg)	EXT DRO >C28-C36 (mg/Kg)	Chloride (mg/Kg)
	12	In-Situ	18-Sep-17	242.0	2,080	--	--	--	--	--	--	--	--	--
	16	In-Situ	18-Sep-17	256.0	1,600	--	--	--	--	--	--	--	--	--
	18	In-Situ	18-Sep-17	136.0	1,280	--	--	--	--	--	--	--	--	--
	23	In-Situ	18-Sep-17	75.2	1,200	--	--	--	--	--	--	--	13.5	1,180

TABLE 2
Summary of Soil Sample Field Testing and Laboratory Analytical Results
Vanguard
Langlie Mattix 4 Fed 1

Lab Sample ID	Depth (feet)	Soil Status	Sample Date	PID Reading (ppm)	Field Chloride (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	GRO C6-C10 (mg/Kg)	DRO C10-C28 (mg/Kg)	EXT DRO >C28-C36 (mg/Kg)	Chloride (mg/Kg)
SP3	Surface	In-Situ	14-Sep-17	0.0	80	--	--	--	--	--	--	--	--	48
	1	In-Situ	14-Sep-17	0.0	80	--	--	--	--	--	--	--	--	<16.0
SP4	Surface	In-Situ	14-Sep-17	0.0	80	--	--	--	--	--	--	--	--	96
	1	In-Situ	14-Sep-17	0.0	80	--	--	--	--	--	--	--	--	<16.0
SP5	Surface	In-Situ	14-Sep-17	0.0	80	--	--	--	--	--	--	--	--	352
	1	In-Situ	14-Sep-17	0.0	160	--	--	--	--	--	--	--	--	160
SP6	Surface	In-Situ	14-Sep-17	0.0	80	--	--	--	--	--	--	--	--	16
	1	In-Situ	14-Sep-17	0.0	80	--	--	--	--	--	--	--	--	32

TABLE 2
Summary of Soil Sample Field Testing and Laboratory Analytical Results
Vanguard
Langlie Mattix 4 Fed 1

Lab Sample ID	Depth (feet)	Soil Status	Sample Date	PID Reading (ppm)	Field Chloride (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	GRO C6-C10 (mg/Kg)	DRO C10-C28 (mg/Kg)	EXT DRO >C28-C36 (mg/Kg)	Chloride (mg/Kg)
SP7	Surface	In-Situ	18-Sep-17	0.0	80	--	--	--	--	--	--	--	--	64
	1	In-Situ	18-Sep-17	0.0	80	--	--	--	--	--	--	--	--	<16.0
SP8	Surface	In-Situ	18-Sep-17	0.0	80	--	--	--	--	--	--	--	--	<16.0
	1	In-Situ	18-Sep-17	0.0	80	--	--	--	--	--	--	--	--	64
NMOCD Recommended Remedial Action Levels				100		10				50			5,000	600

-- = Not Analyzed

Bold values are in excess of NMOCD Recommended Remedial Action Levels

Shaded values indicates soil has been excavated

ATTACHMENTS

ATTACHMENT I

Photographs



Photograph #1- Lease sign



Photograph #2- Release area



Photograph #3- Release area



Photograph #4- Release area



Photograph #4- Release Area



Photograph #5- Entrance to location

ATTACHMENT II

NMOSE Average Depth to Groundwater



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Well Drill Dates & Depths)

(R=POD has been replaced and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE) C=the file is closed)										(quarters are smallest to largest)										(NAD83 UTM in meters)			(in feet)	
(acre ft per annum)																								
WR File Nbr	Sub basin	Use	Diversion	Cnty	POD Number	Code	Grant	Source	64	16	4	Sec	Tws	Rng	X	Y	Distance	Start Date	Finish Date	Depth Well	Depth Water			
CP 00816	CP	PRO	0	LE	CP 00816				3	04	23S	37E			672043	3578457*	209		09/03/1993	09/04/1993	250			
CP 00372	CP	NOT	0	LE	CP 00372 POD1			Shallow	4	4	05	23S	37E		671442	3578249*	518							
CP 00762	CP	PRO	0	LE	CP 00762			Shallow	1	1	09	23S	37E		671849	3577854*	703		05/01/1991	05/09/1991	185	100		
CP 00389	CP	PLS	3	LE	CP 00389 POD1			Shallow	3	1	1	04	23S	37E	671723	3579362*	816				100			
CP 00373	CP	PDL	3	LE	CP 00373 POD1			Shallow	2	2	08	23S	37E		671449	3577847*	820				150			
CP 00371	CP	PLS	3	LE	CP 00371 POD1			Shallow	1	4	05	23S	37E		671035	3578644*	828							

Record Count: 6

UTMNAD83 Radius Search (in meters):

Easting (X): 671858.9

Northing (Y): 3578557.23

Radius: 1000

Sorted by: Distance

*UTM location was derived from PLSS - see Help

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



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

(R=POD has been replaced and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)
C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)

(acre ft per annum)																					
WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	q	q	q	6416	4	Sec	Tws	Rng	X	Y	Distance	
CP 00816	CP	PRO		0 TEXACO EXPLORATION & PROD. INC	LE	CP 00816							3	04	23S	37E		672043	3578457*		209
CP 00372	CP	NOT		0 MRS. GEORGE WEIR	LE	CP 00372 POD1			Shallow	4	4	05	23S	37E				671442	3578249*		518
CP 00762	CP	PRO		0 TEXACO	LE	CP 00762			Shallow	1	1	09	23S	37E				671849	3577854*		703
CP 00389	CP	PLS		3 ROSS L. ROBINSON	LE	CP 00389 POD1			Shallow	3	1	1	04	23S	37E			671723	3579362*		816
CP 00373	CP	PDL		3 MRS. GEORGE WEIR	LE	CP 00373 POD1			Shallow	2	2	08	23S	37E				671449	3577847*		820
CP 00371	CP	PLS		3 MRS GEORGE WEIR	LE	CP 00371 POD1			Shallow	1	4	05	23S	37E				671035	3578644*		828

Record Count: 6

UTMNAD83 Radius Search (in meters):

Easting (X): 671858.9

Northing (Y): 3578557.23

Radius: 1000

Sorted by: Distance

*UTM location was derived from PLSS - see Help

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

USGS Well Sites



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

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 661858.9

Northing (Y): 3578557.23

Radius: 1000

ATTACHMENT III
Laboratory Analytical Results

September 29, 2017

Daniel Dominguez

Environmental Plus, Inc.

P.O. Box 1558

Eunice, NM 88231

RE: LANGLIE MATTIX 4 FED 1

Enclosed are the results of analyses for samples received by the laboratory on 09/22/17 15:40.

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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

Environmental Plus, Inc.
Daniel Dominguez
P.O. Box 1558
Eunice NM, 88231
Fax To: (505) 394-2601

Received: 09/22/2017
Reported: 09/29/2017
Project Name: LANGLEIE MATTIX 4 FED 1
Project Number: NONE GIVEN
Project Location: CAMERON -UL-I SEC. 4, T23S, R37E

Sampling Date: 09/14/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 1 (SURFACE) (H702597-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	09/28/2017	ND	2.02	101	2.00		
Toluene*	<0.100	0.100	09/28/2017	ND	1.86	92.9	2.00		
Ethylbenzene*	<0.100	0.100	09/28/2017	ND	1.89	94.3	2.00		
Total Xylenes*	<0.300	0.300	09/28/2017	ND	5.72	95.3	6.00		
Total BTX	<0.600	0.600	09/28/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	432	16.0	09/27/2017	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	173	100	09/25/2017	ND	181	90.6	200	1.81		
DRO >C10-C28	26500	100	09/25/2017	ND	198	99.0	200	1.73		
EXT DRO >C28-C36	6450	100	09/25/2017	ND						

Surrogate: 1-Chlorooctane 121 % 28.3-164

Surrogate: 1-Chlorooctadecane 904 % 34.7-157

Cardinal Laboratories

*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Environmental Plus, Inc.
Daniel Dominguez
P.O. Box 1558
Eunice NM, 88231
Fax To: (505) 394-2601

Received: 09/22/2017
Reported: 09/29/2017
Project Name: LANGLEIE MATTIX 4 FED 1
Project Number: NONE GIVEN
Project Location: CAMERON -UL-I SEC. 4, T23S, R37E

Sampling Date: 09/15/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 1 (34') (H702597-02)

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		
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) 124 % 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	464	16.0	09/27/2017	ND	400	100	400	3.92	

TPH 8015M		mg/kg		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	181	90.6	200	1.81	
DRO >C10-C28	14.1	10.0	09/25/2017	ND	198	99.0	200	1.73	
EXT DRO >C28-C36	39.1	10.0	09/25/2017	ND					

Surrogate: 1-Chlorooctane 74.2 % 28.3-164

Surrogate: 1-Chlorooctadecane 76.2 % 34.7-157

Cardinal Laboratories

*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Environmental Plus, Inc.
Daniel Dominguez
P.O. Box 1558
Eunice NM, 88231
Fax To: (505) 394-2601

Received:	09/22/2017	Sampling Date:	09/14/2017
Reported:	09/29/2017	Sampling Type:	Soil
Project Name:	LANGLIE MATTIX 4 FED 1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CAMERON -UL-I SEC. 4, T23S, R37E		

Sample ID: SP 2 (SURFACE) (H702597-03)

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		
Toluene*	0.087	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 % 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	240	16.0	09/27/2017	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	09/25/2017	ND	181	90.6	200	1.81	
DRO >C10-C28	2150	50.0	09/25/2017	ND	198	99.0	200	1.73	
EXT DRO >C28-C36	919	50.0	09/25/2017	ND					

Surrogate: 1-Chlorooctane 93.1 % 28.3-164

Surrogate: 1-Chlorooctadecane 139 % 34.7-157

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Received: 09/22/2017
Reported: 09/29/2017
Project Name: LANGLEIE MATTIX 4 FED 1
Project Number: NONE GIVEN
Project Location: CAMERON -UL-I SEC. 4, T23S, R37E

Sampling Date: 09/18/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 2 (23') (H702597-04)

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		
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 % 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	1180	16.0	09/27/2017	ND	416	104	400	3.92	QM-07

TPH 8015M		mg/kg		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	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	13.5	10.0	09/25/2017	ND					

Surrogate: 1-Chlorooctane 82.0 % 28.3-164

Surrogate: 1-Chlorooctadecane 88.0 % 34.7-157

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Received:	09/22/2017	Sampling Date:	09/14/2017
Reported:	09/29/2017	Sampling Type:	Soil
Project Name:	LANGLIE MATTIX 4 FED 1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CAMERON -UL-I SEC. 4, T23S, R37E		

Sample ID: SP 3 (SURFACE) (H702597-05)

BTX 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		
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 BTX	<0.300	0.300	09/28/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	48.0	16.0	09/27/2017	ND	416	104	400	3.92	

TPH 8015M			mg/kg		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	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 83.0 % 28.3-164

Surrogate: 1-Chlorooctadecane 82.4 % 34.7-157

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Received: 09/22/2017
Reported: 09/29/2017
Project Name: LANGLEIE MATTIX 4 FED 1
Project Number: NONE GIVEN
Project Location: CAMERON -UL-I SEC. 4, T23S, R37E

Sampling Date: 09/14/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 3 (1') (H702597-06)

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		
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 % 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	09/27/2017	ND	416	104	400	3.92	

TPH 8015M		mg/kg		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	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 78.5 % 28.3-164

Surrogate: 1-Chlorooctadecane 80.6 % 34.7-157

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Received:	09/22/2017	Sampling Date:	09/14/2017
Reported:	09/29/2017	Sampling Type:	Soil
Project Name:	LANGLIE MATTIX 4 FED 1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CAMERON -UL-I SEC. 4, T23S, R37E		

Sample ID: SP 4 (SURFACE) (H702597-07)

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		
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 % 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	96.0	16.0	09/27/2017	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/27/2017	ND	224	112	200	1.88	
DRO >C10-C28	<10.0	10.0	09/27/2017	ND	230	115	200	0.344	
EXT DRO >C28-C36	<10.0	10.0	09/27/2017	ND					

Surrogate: 1-Chlorooctane 73.9 % 28.3-164

Surrogate: 1-Chlorooctadecane 70.6 % 34.7-157

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Received: 09/22/2017
Reported: 09/29/2017
Project Name: LANGLEIE MATTIX 4 FED 1
Project Number: NONE GIVEN
Project Location: CAMERON -UL-I SEC. 4, T23S, R37E

Sampling Date: 09/14/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 4 (1') (H702597-08)

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		
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) 102 % 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	09/27/2017	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/27/2017	ND	224	112	200	1.88	
DRO >C10-C28	<10.0	10.0	09/27/2017	ND	230	115	200	0.344	
EXT DRO >C28-C36	<10.0	10.0	09/27/2017	ND					

Surrogate: 1-Chlorooctane 81.8 % 28.3-164

Surrogate: 1-Chlorooctadecane 81.1 % 34.7-157

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Received: 09/22/2017
Reported: 09/29/2017
Project Name: LANGLEIE MATTIX 4 FED 1
Project Number: NONE GIVEN
Project Location: CAMERON -UL-I SEC. 4, T23S, R37E

Sampling Date: 09/14/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 5 (SURFACE) (H702597-09)

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		
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, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	09/27/2017	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/27/2017	ND	224	112	200	1.88	
DRO >C10-C28	<10.0	10.0	09/27/2017	ND	230	115	200	0.344	
EXT DRO >C28-C36	<10.0	10.0	09/27/2017	ND					

Surrogate: 1-Chlorooctane 72.3 % 28.3-164

Surrogate: 1-Chlorooctadecane 73.5 % 34.7-157

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Received: 09/22/2017
Reported: 09/29/2017
Project Name: LANGLEIE MATTIX 4 FED 1
Project Number: NONE GIVEN
Project Location: CAMERON -UL-I SEC. 4, T23S, R37E

Sampling Date: 09/14/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 5 (1') (H702597-10)

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		
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, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/27/2017	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/27/2017	ND	224	112	200	1.88	
DRO >C10-C28	<10.0	10.0	09/27/2017	ND	230	115	200	0.344	
EXT DRO >C28-C36	<10.0	10.0	09/27/2017	ND					

Surrogate: 1-Chlorooctane 78.9 % 28.3-164

Surrogate: 1-Chlorooctadecane 80.1 % 34.7-157

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Received:	09/22/2017	Sampling Date:	09/14/2017
Reported:	09/29/2017	Sampling Type:	Soil
Project Name:	LANGLIE MATTIX 4 FED 1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CAMERON -UL-I SEC. 4, T23S, R37E		

Sample ID: SP 6 (SURFACE) (H702597-11)

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		
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		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/27/2017	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/27/2017	ND	224	112	200	1.88	
DRO >C10-C28	<10.0	10.0	09/27/2017	ND	230	115	200	0.344	
EXT DRO >C28-C36	<10.0	10.0	09/27/2017	ND					

Surrogate: 1-Chlorooctane 85.6 % 28.3-164

Surrogate: 1-Chlorooctadecane 87.5 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Environmental Plus, Inc.
Daniel Dominguez
P.O. Box 1558
Eunice NM, 88231
Fax To: (505) 394-2601

Received: 09/22/2017
Reported: 09/29/2017
Project Name: LANGLEIE MATTIX 4 FED 1
Project Number: NONE GIVEN
Project Location: CAMERON -UL-I SEC. 4, T23S, R37E

Sampling Date: 09/14/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 6 (1') (H702597-12)

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		
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 % 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	32.0	16.0	09/27/2017	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/27/2017	ND	224	112	200	1.88	
DRO >C10-C28	<10.0	10.0	09/27/2017	ND	230	115	200	0.344	
EXT DRO >C28-C36	<10.0	10.0	09/27/2017	ND					

Surrogate: 1-Chlorooctane 82.3 % 28.3-164

Surrogate: 1-Chlorooctadecane 86.3 % 34.7-157

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Analytical Results For:

Environmental Plus, Inc.
Daniel Dominguez
P.O. Box 1558
Eunice NM, 88231
Fax To: (505) 394-2601

Received:	09/22/2017	Sampling Date:	09/18/2017
Reported:	09/29/2017	Sampling Type:	Soil
Project Name:	LANGLIE MATTIX 4 FED 1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CAMERON -UL-I SEC. 4, T23S, R37E		

Sample ID: SP 7 (SURFACE) (H702597-13)

BTX 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		
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 BTX	<0.300	0.300	09/28/2017	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	64.0	16.0	09/27/2017	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/27/2017	ND	224	112	200	1.88	
DRO >C10-C28	<10.0	10.0	09/27/2017	ND	230	115	200	0.344	
EXT DRO >C28-C36	<10.0	10.0	09/27/2017	ND					

Surrogate: 1-Chlorooctane 83.9 % 28.3-164

Surrogate: 1-Chlorooctadecane 86.7 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Environmental Plus, Inc.
Daniel Dominguez
P.O. Box 1558
Eunice NM, 88231
Fax To: (505) 394-2601

Received: 09/22/2017
Reported: 09/29/2017
Project Name: LANGLEIE MATTIX 4 FED 1
Project Number: NONE GIVEN
Project Location: CAMERON -UL-I SEC. 4, T23S, R37E

Sampling Date: 09/18/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 7 (1') (H702597-14)

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	09/28/2017	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, 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	09/27/2017	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/27/2017	ND	224	112	200	1.88	
DRO >C10-C28	<10.0	10.0	09/27/2017	ND	230	115	200	0.344	
EXT DRO >C28-C36	<10.0	10.0	09/27/2017	ND					

Surrogate: 1-Chlorooctane 80.8 % 28.3-164

Surrogate: 1-Chlorooctadecane 85.0 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Environmental Plus, Inc.
 Daniel Dominguez
 P.O. Box 1558
 Eunice NM, 88231
 Fax To: (505) 394-2601

Received:	09/22/2017	Sampling Date:	09/18/2017
Reported:	09/29/2017	Sampling Type:	Soil
Project Name:	LANGLIE MATTIX 4 FED 1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CAMERON -UL-I SEC. 4, T23S, R37E		

Sample ID: SP 8 (SURFACE) (H702597-15)

BTX 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		
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 BTX	<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	64.0	16.0	09/27/2017	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/27/2017	ND	224	112	200	1.88	
DRO >C10-C28	<10.0	10.0	09/27/2017	ND	230	115	200	0.344	
EXT DRO >C28-C36	<10.0	10.0	09/27/2017	ND					

Surrogate: 1-Chlorooctane 75.2 % 28.3-164

Surrogate: 1-Chlorooctadecane 79.0 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Environmental Plus, Inc.
Daniel Dominguez
P.O. Box 1558
Eunice NM, 88231
Fax To: (505) 394-2601

Received: 09/22/2017
Reported: 09/29/2017
Project Name: LANGLEIE MATTIX 4 FED 1
Project Number: NONE GIVEN
Project Location: CAMERON -UL-I SEC. 4, T23S, R37E

Sampling Date: 09/18/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 8 (1') (H702597-16)

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		
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, 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	09/27/2017	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/27/2017	ND	224	112	200	1.88	
DRO >C10-C28	<10.0	10.0	09/27/2017	ND	230	115	200	0.344	
EXT DRO >C28-C36	<10.0	10.0	09/27/2017	ND					

Surrogate: 1-Chlorooctane 81.2 % 28.3-164

Surrogate: 1-Chlorooctadecane 84.6 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Environmental Plus, Inc.
Daniel Dominguez
P.O. Box 1558
Eunice NM, 88231
Fax To: (505) 394-2601

Received:	09/22/2017	Sampling Date:	09/18/2017
Reported:	09/29/2017	Sampling Type:	Soil
Project Name:	LANGLIE MATTIX 4 FED 1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CAMERON -UL-I SEC. 4, T23S, R37E		

Sample ID: BACKGROUND (1') (H702597-17)

BTX 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	1.78	88.9	2.00	1.68		
Toluene*	<0.050	0.050	09/28/2017	ND	1.61	80.7	2.00	2.06		
Ethylbenzene*	<0.050	0.050	09/28/2017	ND	1.63	81.3	2.00	0.562		
Total Xylenes*	<0.150	0.150	09/28/2017	ND	4.94	82.3	6.00	0.354		
Total BTX	<0.300	0.300	09/28/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	48.0	16.0	09/27/2017	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/27/2017	ND	224	112	200	1.88	
DRO >C10-C28	<10.0	10.0	09/27/2017	ND	230	115	200	0.344	
EXT DRO >C28-C36	<10.0	10.0	09/27/2017	ND					

Surrogate: 1-Chlorooctane 82.8 % 28.3-164

Surrogate: 1-Chlorooctadecane 83.7 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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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Celey D. Keene, Lab Director/Quality Manager

Environmental Plus, Inc.

2100 Avenue O, Eunice, NM 88231
(575) 394-3481 FAX: (575) 394-2601

P.O. Box 1558, Eunice, NM 88231

LAB **Cardinal**

Chain of Custody Form

Company Name Environmental Plus, Inc.

EPI Project Manager Daniel Dominguez

Mailing Address P.O. BOX 1558

City, State, Zip Eunice New Mexico 88231

EPI Phone/Fax# 575-394-3481 / 575-394-2601

Client Company Cameron Oil & Gas

Facility Name Langlie Mattix 4 Fed 1

Location UL-1 Sec. 4, T23S, R37E

Project Reference

EPI Sampler Name Dustin Crockett

Attn: Daniel Dominguez

P.O. Box 1558

Eunice, NM 88231

Bill To

ANALYSIS REQUEST

EPI Project Manager		Daniel Dominguez	
Mailing Address		P.O. BOX 1558	
City, State, Zip		Eunice New Mexico 88231	
EPI Phone#/Fax#		575-394-3481 / 575-394-2601	
Client Company		Cameron Oil & Gas	
Facility Name		Langlie Mattix 4 Fed 1	
Location		UL- I Sec. 4, T23S, R37E	
Project Reference		Attn: Daniel Dominguez P.O. Box 1558	
EPI Sampler Name		Eunice, NM 88231	
Dustin Crockett			

LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING										
				GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:												
				ACID/BASE	ICE/COOL	OTHER	DATE	TIME													
1	SP1 (Surface)	G	1	X					X		14-Sep-17	7:58	X	X	X						
2	SP1 (34')	G	1	X					X		15-Sep-17	13:15	X	X	X						
3	SP2 (Surface)	G	1	X					X		14-Sep-17	8:36	X	X	X						
4	SP2 (23')	G	1	X					X		18-Sep-17	13:30	X	X	X						
5	SP3 (Surface)	G	1	X					X		14-Sep-17	11:00	X	X	X						
6	SP3 (1')	G	1	X					X		14-Sep-17	11:16	X	X	X						
7	SP4 (Surface)	G	1	X					X		14-Sep-17	11:24	X	X	X						
8	SP4 (1')	G	1	X					X		14-Sep-17	11:27	X	X	X						
9	SP5 (Surface)	G	1	X					X		14-Sep-17	11:33	X	X	X						
10	SP5 (1')	G	1	X					X		14-Sep-17	11:40	X	X	X						

H102-597		BTEX 8021B	
		TPH 8015M Ext.	
		CHLORIDES (Cl ⁻)	
		SULFATES (SO ₄ ²⁻)	
		pH	
		TCLP	
		OTHER >>>	
		PAH	

Sampler Relinquished:

Date 9-19-17

Received By:

Relinquished By:

Date 9-22-17

Received By: (lab staff)

NOTES: E-mail results to: ddominguezepi@gmail.com & dsweeney@cameronoil.com & bboone.epi@gmail.com

Delivered by:

Sample Cool & Intact

Checked By:

-5:30
Collected 5:05

Yes No #15-70

has some head space T.O.

Environmental Plus, Inc.

2100 Avenue O, Eunice, NM 88231

P.O. Box 1558, Eunice, NM 88231

Chain of Custody Form

LAB Cardinal

(575) 394-3481 FAX: (575) 394-2601

Bill To

ANALYSIS REQUEST

Company Name Environmental Plus, Inc.

EPI Project Manager Daniel Dominguez

Mailing Address P.O. BOX 1558

City, State, Zip Eunice New Mexico 88231

EPI Phone# / Fax# 575-394-3481 / 575-394-2601

Client Company Cameron Oil & Gas

Facility Name Langlie Mattix 4 Fed 1

Location UL-1 Sec. 4, T23S, R37E

Project Reference

EPI Sampler Name Dustin Crockett

Attn: Daniel Dominguez
P.O. Box 1558
Eunice, NM 88231



LAB I.D.

SAMPLE I.D.

597
H102454

LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	ANALYSIS REQUEST								
				GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE			ICE/COOL	OTHER	BTEX 8021B	TPH 8015M Ext.	CHLORIDES (Cl ⁻)	SULFATES (SO ₄ ⁼)	pH	TCLP	OTHER >>>
597 H702-957	11 SP6 (Surface)	G	1			X				X	14-Sep-17	11:50	X	X	X						
	12 SP6 (1')	G	1			X				X	14-Sep-17	12:05	X	X	X						
	13 SP7 (Surface)	G	1			X				X	18-Sep-17	6:40	X	X	X						
	14 SP7 (1')	G	1			X				X	18-Sep-17	6:52	X	X	X						
	15 SP8 (Surface)	G	1			X				X	18-Sep-17	7:15	X	X	X						
	16 SP8 (1')	G	1			X				X	18-Sep-17	7:18	X	X	X						
	17 Background (1')	G	1			X				X	18-Sep-17	8:00	X	X	X						
	18																				
19																					
20																					

Sampler Relinquished:

Date 9-19-17

Receiver By: [Signature]

Relinquished by: [Signature]

Date 9-22-17

Receiver By: (lab sign) [Signature]

Delivered by: [Signature]

Date 9-22-17

Receiver By: (lab sign) [Signature]

Sample Cool & Intact

Yes

Checked By: [Signature]

E-mail results to: ddominguezepi@gmail.com & dsweeney@cameronoil.com
NOTES: & bboone.epi@gmail.com

Has some head space T.O.

ATTACHMENT IV
Copy of Initial NMOCD Form C-141

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

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

Form C-141
Revised April 3, 2017

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Cameron Oil & Gas, Inc.	Contact	David Sweeney
Address	PO Box 1455 Roswell, NM 88202-1455	Telephone No.	575-420-1108 575-627-3284
Facility Name	Langlie Mattix 4 Federal 1	Facility Type	Tank Battery

Surface Owner	BLM	Mineral Owner	BLM	API No.	30-025-32743
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	4	23S	37E	1650	South	660	West	Lea

Latitude _____ Longitude _____ NAD83

NATURE OF RELEASE

Type of Release	Oil & Water	Volume of Release	11 BBLS	Volume Recovered	0
Source of Release		Date and Hour of Occurrence		Date and Hour of Discovery	
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?			
By Whom?		Date and Hour	7/20/17		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

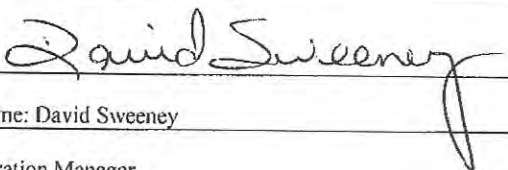

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By Olivia Yu at 9:21 am, Aug 11, 2017

Describe Cause of Problem and Remedial Action Taken.* On 7/20/17 a hole in the flowline between the wellhead and heater treater. The flowline was replaced.

Describe Area Affected and Cleanup Action Taken.* 11 BBLS of fluid was out, 2 BBLS of oil and 9 BBLS of water. All of it was contained in the dike around heater treater. A vacuum truck picked up 3 BBLS of fluid, the area was 300 sq feet. A backhoe cleaned the area and hauled 3 yards to Sundance.

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

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: David Sweeney	Approved by Environmental Specialist: 	
Title: Operation Manager	Approval Date: 8/11/2017	Expiration Date:
E-mail Address: dsweeney@cameronoil.com	Conditions of Approval: see attached directive	Attached <input checked="" type="checkbox"/>
Date: 8/1/17 Phone: 575-420-1108 575-627-3284		

* Attach Additional Sheets If Necessary

1RP-4784

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