

# ***ENVIRONMENTAL PLUS, INC.***

2100 Ave 'O'  
P.O. Box 1558  
Eunice, NM 88231  
ddominguezepi@gmail.com  
Office: (575) 394-3481  
Fax: (575) 394-2601



**APPROVED**

*By Olivia Yu at 1:54 pm, Oct 02, 2018*

## **Final Closure Report**

NMOCD grants  
closure to 1RP-4579.

**Chevron USA, Inc.  
Capps Federal #1  
Lea County, New Mexico  
Unit Letter "B", Section 24, Township 20 South, Range 38 East  
Latitude 32.564022 North, Longitude 103.099990 West  
NMOCD Reference #1RP-4579**

Prepared For:

Chevron USA, Inc.  
6301 Deauville Blvd.  
Midland, Texas 79706

Prepared By:

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

**August 2017**

A handwritten signature in black ink, appearing to read 'Daniel Dominguez', is written over a horizontal line.

Daniel Dominguez  
Project Manager



The following *Final Closure Report* serves as a condensed update on field activities undertaken at the afore referenced Site.

**Background:**

The site is located in Unit Letter B (NW ¼ NE ¼), Section 24, Township 20 South, Range 38 East, approximately ten miles north-east of Eunice, in Lea County, New Mexico. The property is owned by the State of New Mexico and Administered by the BLM.

The release site is located within the bermed containment of an active tank battery; latitude 32.402572 North, longitude 103.189576 West. Area Map, Site Location Map, and Sample/Site Map are included as Figure 1, Figure 2, and Figure 3, respectively. The Initial NMOCD Form C-141 indicated that on January 7, 2017 approximately 26.80 barrels of produced water were released when a bleeder valve was opened releasing the fluid to bermed containment. A vacuum truck was dispatched to the site and recovered approximately 26 barrels, resulting in a net loss of .80 barrels of fluid. The visually stained area covers approximately 500 square feet. The Initial NMOCD Form C-141 in 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 are four wells 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 NMOSE database indicates average water depth is approximately 45 feet below ground surface (bgs) within a 2,000-meter radius (reference *Attachment II*).

Utilizing this information, the NMOCD guidelines indicate the Capps Federal #1 release site to have a ranking score of twenty. Based on this score, the NMOCD Recommended Remedial Action Levels (RRALs) for vertical delineation on this Site were determined as follows: Benzene – 10 mg/Kg, BTEX – 50 mg/Kg, TPH – 100 mg/Kg, and Chloride – 250 mg/Kg. The RRALs for horizontal delineation on this Site were determined as follows: Benzene – 10 mg/Kg, BTEX – 50 mg/Kg, TPH – 100 mg/Kg, and Chloride – 600 mg/Kg.

The fluid spread out to an area measuring approximately 6' x 69' within the bermed containment lined with caliche.

**Delineation Activities:**

On January 26, 2017 EPI personnel mobilized on site to collect soil samples to determine the vertical extent of contamination. A total of fourteen soil samples were collected from two sample locations; SP1 – SP2. Sampling activities ceased when refusal was met at SP2 with a hard caliche layer at ten feet bgs. These fourteen soil samples were field tested only (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™

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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.

On March 24, 2017 EPI personnel mobilized on site to collect soil samples to determine the vertical and horizontal extent of contamination. A total of eight vertical soil samples were collected from two sample locations; SP1 – SP2. Four representative samples, one from surface and TD at each sample location, were sent to Cardinal Labs in Hobbs, New Mexico, for testing. Laboratory analytical results indicate that TPH and Chloride concentrations more than NMOCD RRALs are present at the surface, though not at TD.

A total of eight horizontal soil samples were collected from four sample locations surrounding the release area; SP4 – SP7. All eight soil samples were sent to Cardinal Labs in Hobbs, New Mexico, for chloride testing. Laboratory analytical results indicate that Chloride concentrations in the area adjacent to the release area, horizontally, are below NMOCD RRALs of 600 mg/Kg (reference *Figure 3* and *Table 2*).

**Completed Actions:**

Taking into consideration the release occurred on an active tank battery, field testing indicating TPH and Chloride levels above NMOCD RRALs between surface and twenty-two feet bgs (reference *Table 2*), and with NMOCD approval EPI personnel excavated the tank battery area around SP1 to one-foot bgs and the area around SP2 to four feet bgs. After excavation activities were completed, a 20-mil poly-ethylene liner was installed on the floor of the four-foot excavation over the area of SP2. Confirmation samples were collected from sidewalls and floor of excavation (reference *Figure 3* and *Table 2*). The excavation was then backfilled with clean caliche to impede further vertical migration of impacts. The area adjacent to the release area on the tank battery pad, horizontally, was not disturbed.

Caliche was free of deleterious material or rocks or large clumps. Backfilling continued until the entire excavation was closed. Upon completion of backfill activities, the entire disturbed area was contoured to blend with tank battery area and protected against wind/water erosion.

**Revegetation Plan:**

As the release area occurred within a bermed tank battery on a lease pad, no seeding will be required.

**Noxious Weed Management Plan:**

This location is an active oil operation pad. Chevron routinely maintains the entire pad to be free of any vegetation and weeds for the safety of personnel.

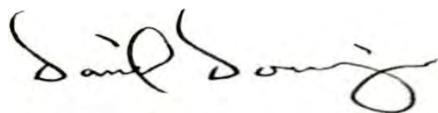
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Should you have any questions or concerns please feel free to contact me at (575) 394-3481 or via e-mail at [ddominguezepi@gmail.com](mailto:ddominguezepi@gmail.com) or Ms. Josepha DeLeon at (432) 425-1528 or via e-mail at [jdxd@chevron.com](mailto:jdxd@chevron.com). All official communication should be addressed to:

Ms. Josepha DeLeon  
Chevron USA, Inc.  
6301 Deauville Blvd.  
Midland, Texas 79706

Sincerely,

ENVIRONMENTAL PLUS, INC.



Daniel Dominguez  
Environmental Consultant

cc: Olivia Yu, Environmental Specialist – NMOCD District 1, Hobbs, NM  
Josepha DeLeon, HES Specialist – Compliance Support - Environmental – Chevron  
File

Encl.: Figure 1 – Area Map  
Figure 2 – Site Location Map  
Figure 3 – 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  
Attachment III – Laboratory Analytical Results  
Attachment IV – Copy of Initial NMOCD Form C-141, Final NMOCD Form C-141

## **FIGURES**

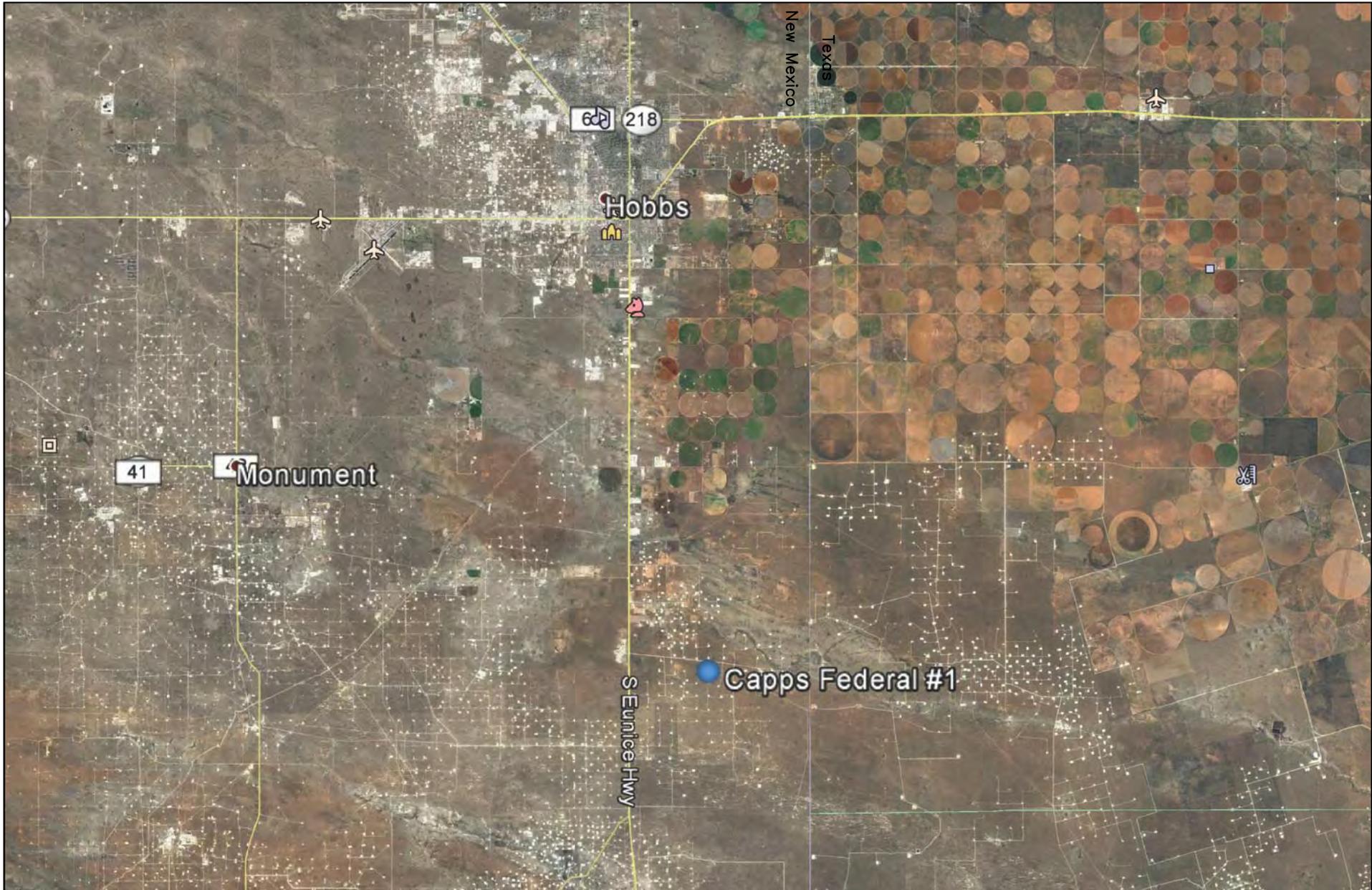
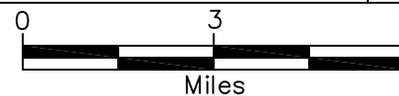


Figure 1  
Area Map  
Chevron  
Capps Federal #1

Lea County, New Mexico  
NW 1/4 of NE 1/4, Sec. 24, T20S, R38E  
N 32° 33' 50.37" W 103° 05' 59.91"  
Elevation: 3,583 feet amsl

DWG By: D Dominguez  
March 2017

REVISED:



SHEET  
1 of 1

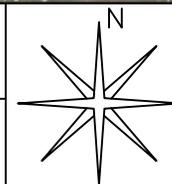


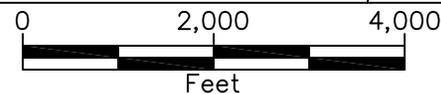


Figure 2  
 Site Location Map  
 Chevron  
 Capps Federal #1

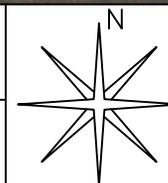
Lea County, New Mexico  
 NW 1/4 of NE 1/4, Sec. 24, T20S, R38E  
 N 32° 33' 50.37" W 103° 05' 59.91"  
 Elevation: 3,583 feet amsl

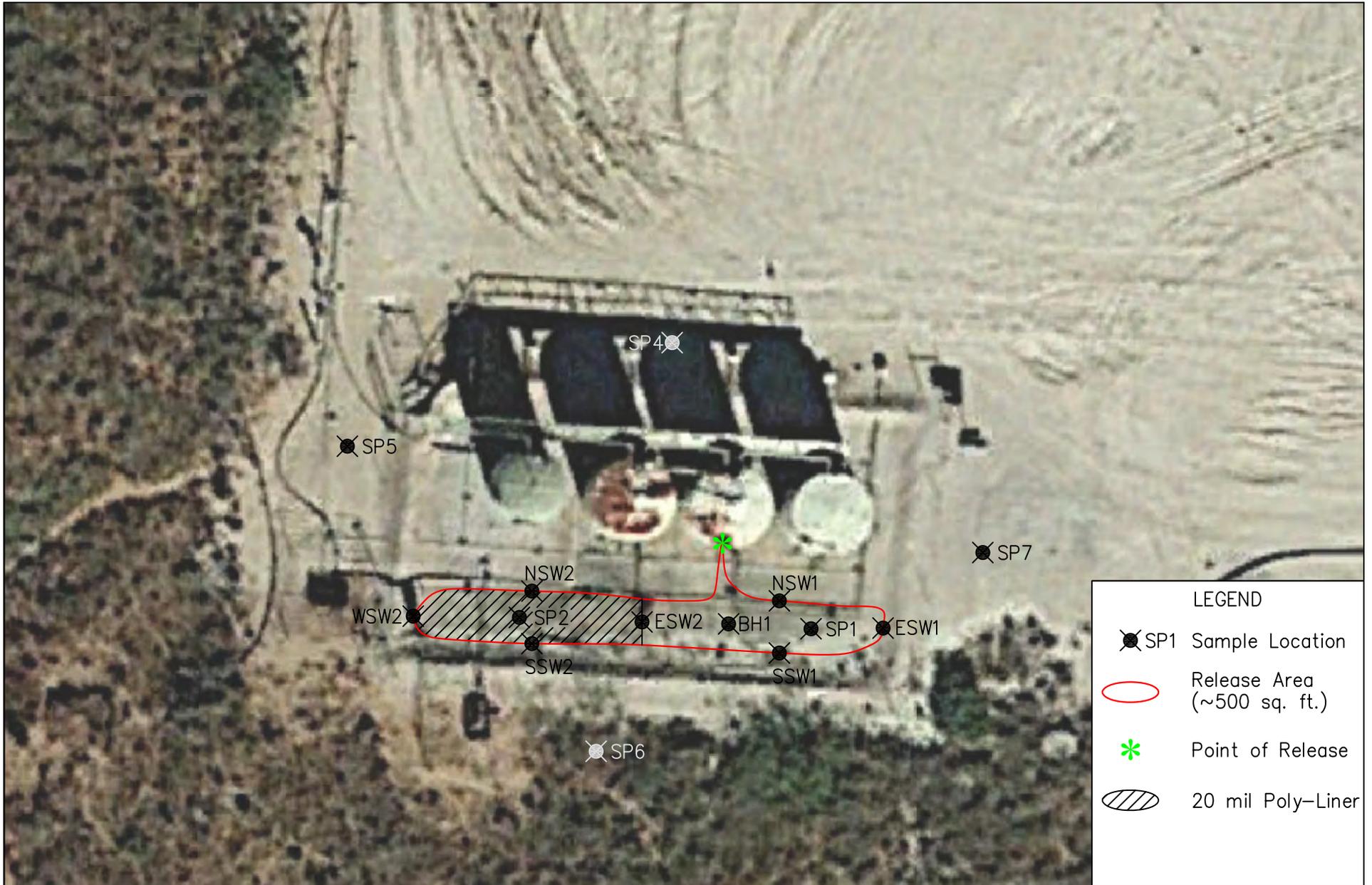
DWG By: D Dominguez  
 March 2017

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 1 of 1





LEGEND

- SP1 Sample Location
- Release Area (~500 sq. ft.)
- Point of Release
- 20 mil Poly-Liner

Figure 3  
 Site/Sample Map  
 Chevron  
 Capps Federal #1

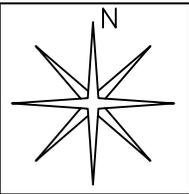
Lea County, New Mexico  
 NW 1/4 of NE 1/4, Sec. 24, T20S, R38E  
 N 32° 33' 50.37" W 103° 05' 59.91"  
 Elevation: 3,583 feet amsl

DWG By: D Dominguez  
 March 2017

0 20 40  
 Feet

REVISED:

SHEET  
 1 of 1



## **TABLES**

**TABLE 1**  
**Well Data**  
**Chevron - Capps Federal #1**

Ref #	Well Number	Use	Diversion <sup>A</sup>	Owner	q64	q16	q4	Sec	Twp	Rng	Easting	Northing	Distance <sup>B</sup>	Date Measured	Surface Elevation <sup>C</sup>	Depth to Water
																(ft bgs)
1	L 10055	STK	3	DALLAS MCCASLAND	1	1	1	24	20S	38E	677465	3604628	913	13-Dec-88	3,585	30
2	L 10057	STK	3	DALLAS MCCASLAND	3	1	1	24	20S	38E	677465	3604428	916	29-Dec-88	3,580	--
3	L 08310	STK	3	ALTON HOWSE		1	1	13	20S	38E	677536	3606140	1,801	10-Jul-80	3,569	42
4	L 02735	STK	3	EARL KORNEGAY	4	4	4	12	20S	38E	678836	3606463	1,971	27-Dec-54	3,575	65

\* = Data obtained from the New Mexico Office of the State Engineer Website ([http://iwaters.ose.state.nm.us:7001/iWATERS/wr\\_RegisServlet1](http://iwaters.ose.state.nm.us:7001/iWATERS/wr_RegisServlet1))

<sup>A</sup> = In acre feet per annum      <sup>B</sup> = In meters      <sup>C</sup> = Elevation interpolated from USGS topographical map based on referenced location.

quarters are 1=NW, 2=NE, 3=SW, 4=SE; quarters are smallest to biggest

STK = 72-12-1 Livestock watering

**TABLE 2**  
**Summary of Soil Sample Field Test and Laboratory Analytical Results**  
**Chevron**  
**Capps Federal #1**

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)	Total TPH (mg/Kg)	Chloride (mg/Kg)
SP1	Surface	Excavated	26-Jan-17	1,062	120	--	--	--	--	--	--	--	--	--
	Surface	Excavated	24-Mar-17	424	120	<0.050	0.090	0.181	0.864	1.14	24.3	823	847	32
	1	Excavated	26-Jan-17	499	120	--	--	--	--	--	--	--	--	--
	2	In-Situ	26-Jan-17	40.4	120	--	--	--	--	--	--	--	--	--
	3	In-Situ	26-Jan-17	17.1	120	--	--	--	--	--	--	--	--	--
	4	In-Situ	24-Mar-17	0	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<20.0	32
SP2	Surface	Excavated	26-Jan-17	706.0	80	--	--	--	--	--	--	--	--	--
	Surface	Excavated	24-Mar-17	841.0	240	0.055	0.689	1.16	4.71	6.62	116	7,820	7,936	288
	1	Excavated	26-Jan-17	513.0	160	--	--	--	--	--	--	--	--	--
	2	Excavated	26-Jan-17	783.0	240	--	--	--	--	--	--	--	--	--
	3	Excavated	26-Jan-17	1,086.0	240	--	--	--	--	--	--	--	--	--
	4	Excavated	26-Jan-17	843.0	320	--	--	--	--	--	--	--	--	--
	5	In-Situ	26-Jan-17	321.0	320	--	--	--	--	--	--	--	--	--
	6	In-Situ	26-Jan-17	732	400	--	--	--	--	--	--	--	--	--
	7	In-Situ	26-Jan-17	910	480	--	--	--	--	--	--	--	--	--
	8	In-Situ	26-Jan-17	533	480	--	--	--	--	--	--	--	--	--
	9	In-Situ	26-Jan-17	1,261	1,000	--	--	--	--	--	--	--	--	--
	10	In-Situ	24-Mar-17	1,250	840	--	--	--	--	--	--	--	--	--
	14	In-Situ	24-Mar-17	850	640	--	--	--	--	--	--	--	--	--
	18	In-Situ	24-Mar-17	0	400	--	--	--	--	--	--	--	--	--
20	In-Situ	24-Mar-17	0	240	--	--	--	--	--	--	--	--	--	
22	In-Situ	24-Mar-17	0	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<20.0	112	

**TABLE 2**  
**Summary of Soil Sample Field Test and Laboratory Analytical Results**  
**Chevron**  
**Capps Federal #1**

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)	Total TPH (mg/Kg)	Chloride (mg/Kg)
SP4	Surface	In-Situ	24-Mar-17	0	80	--	--	--	--	--	--	--	--	400
	3	In-Situ	24-Mar-17	0	80	--	--	--	--	--	--	--	--	32
SP5	Surface	In-Situ	24-Mar-17	0	80	--	--	--	--	--	--	--	--	384
	3	In-Situ	24-Mar-17	0	80	--	--	--	--	--	--	--	--	32
SP6	Surface	In-Situ	24-Mar-17	0	80	--	--	--	--	--	--	--	--	32
	3	In-Situ	24-Mar-17	0	80	--	--	--	--	--	--	--	--	48
SP7	Surface	In-Situ	24-Mar-17	0	80	--	--	--	--	--	--	--	--	448
	3	In-Situ	24-Mar-17	0	80	--	--	--	--	--	--	--	--	32
NSW1	1	In-Situ	07-Jul-17	5.4	200	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<20.0	<10.0
NSW2	2	In-Situ	07-Jul-17	6.7	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<20.0	20.1
SSW1	1	In-Situ	07-Jul-17	2.0	120	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<20.0	10.7
SSW2	2	In-Situ	07-Jul-17	0.4	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<20.0	<10.0
ESW1	1	In-Situ	07-Jul-17	1.1	120	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<20.0	<10.0
ESW2	2	In-Situ	07-Jul-17	2.2	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<20.0	10.3
WSW2	2	In-Situ	07-Jul-17	0.8	120	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<20.0	<10.0
BH1	1	In-Situ	07-Jul-17	2.1	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<20.0	<10.0
NMOCD Recommended Remedial Action Levels				100		10				50			100	250

-- = Not Analyzed

**Red** values are in excess of NMOCD Recommended Remedial Action Levels

## **ATTACHMENTS**

**ATTACHMENT I**  
**Photographs**



Photograph #1- Point of release



Photograph #2- Looking across release area



Photograph #3- Excavation



Photograph #4- Excavation



Photograph #5- Excavation



Photograph #6- Excavation and liner



Photograph #7 – Backfilled



Photograph #8 – Backfilled

**ATTACHMENT II**  
**NMOSE Average Depth to Groundwater**



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

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

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
<a href="#">L 10055 POD1</a>	L	LE		1	1	1	24	20S	38E	677465	3604628*	913	53	30	23
<a href="#">L 10057 POD1</a>	L	LE		3	1	1	24	20S	38E	677465	3604428*	916	58		
<a href="#">L 08310</a>	L	LE			1	1	13	20S	38E	677536	3606140*	1801	65	42	23
<a href="#">L 02735</a>	L	LE		4	4	4	12	20S	38E	678836	3606463*	1971	90	65	25

Average Depth to Water: **45 feet**  
 Minimum Depth: **30 feet**  
 Maximum Depth: **65 feet**

**Record Count:** 4

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

**Easting (X):** 678374.34

**Northing (Y):** 3604545.89

**Radius:** 2000

\*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.

**ATTACHMENT III**  
**Laboratory Analytical Results**



April 03, 2017

Daniel Dominguez  
Environmental Plus, Inc.  
P.O. Box 1558  
Eunice, NM 88231

RE: CAPPS FEDERAL #1

Enclosed are the results of analyses for samples received by the laboratory on 03/27/17 14:05.

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](http://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,

A handwritten signature in black ink that reads "Celey D. Keene".

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: 03/27/2017  
 Reported: 04/03/2017  
 Project Name: CAPPS FEDERAL #1  
 Project Number: NONE GIVEN  
 Project Location: UL-B SEC.24, T20S, R38E

 Sampling Date: 03/24/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 1 ( SURFACE) (H700795-01)**

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	03/29/2017	ND	1.77	88.5	2.00	1.48	
<b>Toluene*</b>	<b>0.090</b>	0.050	03/29/2017	ND	1.72	85.8	2.00	1.02	
<b>Ethylbenzene*</b>	<b>0.181</b>	0.050	03/29/2017	ND	1.74	87.2	2.00	2.13	
<b>Total Xylenes*</b>	<b>0.867</b>	0.150	03/29/2017	ND	5.00	83.3	6.00	1.90	
<b>Total BTEX</b>	<b>1.14</b>	0.300	03/29/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	03/28/2017	ND	432	108	400	10.5	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>24.3</b>	10.0	03/28/2017	ND	193	96.7	200	0.392	
<b>DRO &gt;C10-C28</b>	<b>823</b>	10.0	03/28/2017	ND	206	103	200	0.956	

Surrogate: 1-Chlorooctane 86.1 % 25.1-158

Surrogate: 1-Chlorooctadecane 93.3 % 26.8-170

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:	03/27/2017	Sampling Date:	03/24/2017
Reported:	04/03/2017	Sampling Type:	Soil
Project Name:	CAPPS FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL-B SEC.24, T20S, R38E		

**Sample ID: SP 1 ( 4') (H700795-02)**

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	03/29/2017	ND	1.77	88.5	2.00	1.48		
Toluene*	<0.050	0.050	03/29/2017	ND	1.72	85.8	2.00	1.02		
Ethylbenzene*	<0.050	0.050	03/29/2017	ND	1.74	87.2	2.00	2.13		
Total Xylenes*	<0.150	0.150	03/29/2017	ND	5.00	83.3	6.00	1.90		
Total BTEX	<0.300	0.300	03/29/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/28/2017	ND	432	108	400	10.5		

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	03/28/2017	ND	193	96.7	200	0.392		
DRO >C10-C28	<10.0	10.0	03/28/2017	ND	206	103	200	0.956		

Surrogate: 1-Chlorooctane 90.8 % 25.1-158

Surrogate: 1-Chlorooctadecane 97.9 % 26.8-170

Cardinal Laboratories

\*=Accredited Analyte

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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:	03/27/2017	Sampling Date:	03/24/2017
Reported:	04/03/2017	Sampling Type:	Soil
Project Name:	CAPPS FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL-B SEC.24, T20S, R38E		

**Sample ID: SP 2 ( SURFACE) (H700795-03)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.055</b>	0.050	03/29/2017	ND	1.77	88.5	2.00	1.48	
<b>Toluene*</b>	<b>0.689</b>	0.050	03/29/2017	ND	1.72	85.8	2.00	1.02	
<b>Ethylbenzene*</b>	<b>1.16</b>	0.050	03/29/2017	ND	1.74	87.2	2.00	2.13	
<b>Total Xylenes*</b>	<b>4.71</b>	0.150	03/29/2017	ND	5.00	83.3	6.00	1.90	
<b>Total BTEX</b>	<b>6.62</b>	0.300	03/29/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 130 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>288</b>	16.0	03/28/2017	ND	432	108	400	10.5	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>116</b>	50.0	03/28/2017	ND	193	96.7	200	0.392		
<b>DRO &gt;C10-C28</b>	<b>7820</b>	50.0	03/28/2017	ND	206	103	200	0.956		

Surrogate: 1-Chlorooctane 119 % 25.1-158

Surrogate: 1-Chlorooctadecane 214 % 26.8-170

Cardinal Laboratories

\*=Accredited Analyte

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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:	03/27/2017	Sampling Date:	03/24/2017
Reported:	04/03/2017	Sampling Type:	Soil
Project Name:	CAPPS FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL-B SEC.24, T20S, R38E		

**Sample ID: SP 2 ( 22') (H700795-04)**

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	03/29/2017	ND	1.77	88.5	2.00	1.48	
Toluene*	<0.050	0.050	03/29/2017	ND	1.72	85.8	2.00	1.02	
Ethylbenzene*	<0.050	0.050	03/29/2017	ND	1.74	87.2	2.00	2.13	
Total Xylenes*	<0.150	0.150	03/29/2017	ND	5.00	83.3	6.00	1.90	
Total BTEX	<0.300	0.300	03/29/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>112</b>	16.0	03/28/2017	ND	432	108	400	10.5	

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	03/28/2017	ND	193	96.7	200	0.392	
DRO >C10-C28	<10.0	10.0	03/28/2017	ND	206	103	200	0.956	

Surrogate: 1-Chlorooctane 82.6 % 25.1-158

Surrogate: 1-Chlorooctadecane 92.0 % 26.8-170

**Sample ID: SP 4 ( SURFACE) (H700795-05)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>400</b>	16.0	03/28/2017	ND	432	108	400	10.5	

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\*=Accredited Analyte

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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: 03/27/2017  
 Reported: 04/03/2017  
 Project Name: CAPPS FEDERAL #1  
 Project Number: NONE GIVEN  
 Project Location: UL-B SEC.24, T20S, R38E

 Sampling Date: 03/24/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 4 ( 3' ) (H700795-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	03/28/2017	ND	432	108	400	10.5	

**Sample ID: SP 5 ( SURFACE ) (H700795-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>384</b>	16.0	03/28/2017	ND	432	108	400	10.5	

**Sample ID: SP 5 ( 3' ) (H700795-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	03/28/2017	ND	432	108	400	10.5	

**Sample ID: SP 6 ( SURFACE ) (H700795-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	03/29/2017	ND	448	112	400	0.00	

**Sample ID: SP 6 ( 3' ) (H700795-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	03/29/2017	ND	448	112	400	0.00	

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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: 03/27/2017  
 Reported: 04/03/2017  
 Project Name: CAPPS FEDERAL #1  
 Project Number: NONE GIVEN  
 Project Location: UL-B SEC.24, T20S, R38E

 Sampling Date: 03/24/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 7 ( SURFACE) (H700795-11)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>448</b>	16.0	03/29/2017	ND	448	112	400	0.00	

**Sample ID: SP 7 ( 3' ) (H700795-12)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	03/29/2017	ND	448	112	400	0.00	

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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





July 24, 2017

Daniel Dominguez  
Environmental Plus, Inc.  
P.O. Box 1558  
Eunice, NM 88231

RE: CAPPS FEDERAL #1

Enclosed are the results of analyses for samples received by the laboratory on 07/11/17 15:46.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-9. 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](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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.  
 P.O. Box 1558  
 Eunice NM, 88231

 Project: CAPPS FEDERAL #1  
 Project Number: NONE GIVEN  
 Project Manager: Daniel Dominguez  
 Fax To: (505) 394-2601

 Reported:  
 24-Jul-17 15:47

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NSW 1	H701794-01	Soil	07-Jul-17 10:05	11-Jul-17 15:46
NSW 2	H701794-02	Soil	07-Jul-17 13:45	11-Jul-17 15:46
SSW 1	H701794-03	Soil	07-Jul-17 10:45	11-Jul-17 15:46
SSW 2	H701794-04	Soil	07-Jul-17 13:05	11-Jul-17 15:46
ESW 1	H701794-05	Soil	07-Jul-17 07:55	11-Jul-17 15:46
ESW 2	H701794-06	Soil	07-Jul-17 08:05	11-Jul-17 15:46
WSW 2	H701794-07	Soil	07-Jul-17 07:35	11-Jul-17 15:46
BH 1	H701794-08	Soil	07-Jul-17 07:45	11-Jul-17 15:46

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Environmental Plus, Inc.  
 P.O. Box 1558  
 Eunice NM, 88231

 Project: CAPPS FEDERAL #1  
 Project Number: NONE GIVEN  
 Project Manager: Daniel Dominguez  
 Fax To: (505) 394-2601

 Reported:  
 24-Jul-17 15:47

**NSW 1**
**H701794-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**
**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	7071305	MS	13-Jul-17	8021B	
Toluene*	<0.050		0.050	mg/kg	50	7071305	MS	13-Jul-17	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	7071305	MS	13-Jul-17	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	7071305	MS	13-Jul-17	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	7071305	MS	13-Jul-17	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %	72-148		7071305	MS	13-Jul-17	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	<10.0		10.0	mg/kg	1	7071202	MS	12-Jul-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7071202	MS	12-Jul-17	8015B	
<i>Surrogate: 1-Chlorooctane</i>			110 %	28.3-164		7071202	MS	12-Jul-17	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			117 %	34.7-157		7071202	MS	12-Jul-17	8015B	

**Green Analytical Laboratories**
**Soluble (DI Water Extraction)**

Chloride	<10.0		10.0	mg/kg wet	10	B707153	JDA	20-Jul-17	EPA300.0	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Environmental Plus, Inc.  
 P.O. Box 1558  
 Eunice NM, 88231

 Project: CAPPS FEDERAL #1  
 Project Number: NONE GIVEN  
 Project Manager: Daniel Dominguez  
 Fax To: (505) 394-2601

 Reported:  
 24-Jul-17 15:47

**NSW 2**
**H701794-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**
**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	7071305	MS	13-Jul-17	8021B	
Toluene*	<0.050		0.050	mg/kg	50	7071305	MS	13-Jul-17	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	7071305	MS	13-Jul-17	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	7071305	MS	13-Jul-17	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	7071305	MS	13-Jul-17	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %	72-148		7071305	MS	13-Jul-17	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	<10.0		10.0	mg/kg	1	7071202	MS	12-Jul-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7071202	MS	12-Jul-17	8015B	
<i>Surrogate: 1-Chlorooctane</i>			114 %	28.3-164		7071202	MS	12-Jul-17	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			122 %	34.7-157		7071202	MS	12-Jul-17	8015B	

**Green Analytical Laboratories**
**Soluble (DI Water Extraction)**

Chloride	20.1		10.0	mg/kg wet	10	B707153	JDA	20-Jul-17	EPA300.0	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Environmental Plus, Inc.  
 P.O. Box 1558  
 Eunice NM, 88231

 Project: CAPPS FEDERAL #1  
 Project Number: NONE GIVEN  
 Project Manager: Daniel Dominguez  
 Fax To: (505) 394-2601

 Reported:  
 24-Jul-17 15:47

**SSW 1**
**H701794-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**
**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	7071305	MS	13-Jul-17	8021B	
Toluene*	<0.050		0.050	mg/kg	50	7071305	MS	13-Jul-17	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	7071305	MS	13-Jul-17	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	7071305	MS	13-Jul-17	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	7071305	MS	13-Jul-17	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %	72-148		7071305	MS	13-Jul-17	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	<10.0		10.0	mg/kg	1	7071202	MS	12-Jul-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7071202	MS	12-Jul-17	8015B	
<i>Surrogate: 1-Chlorooctane</i>			119 %	28.3-164		7071202	MS	12-Jul-17	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			125 %	34.7-157		7071202	MS	12-Jul-17	8015B	

**Green Analytical Laboratories**
**Soluble (DI Water Extraction)**

Chloride	10.7		10.0	mg/kg wet	10	B707153	JDA	20-Jul-17	EPA300.0	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Environmental Plus, Inc.  
 P.O. Box 1558  
 Eunice NM, 88231

 Project: CAPPS FEDERAL #1  
 Project Number: NONE GIVEN  
 Project Manager: Daniel Dominguez  
 Fax To: (505) 394-2601

 Reported:  
 24-Jul-17 15:47

**SSW 2**
**H701794-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**
**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	7071305	MS	13-Jul-17	8021B	
Toluene*	<0.050		0.050	mg/kg	50	7071305	MS	13-Jul-17	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	7071305	MS	13-Jul-17	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	7071305	MS	13-Jul-17	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	7071305	MS	13-Jul-17	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %	72-148		7071305	MS	13-Jul-17	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	<10.0		10.0	mg/kg	1	7071202	MS	12-Jul-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7071202	MS	12-Jul-17	8015B	
<i>Surrogate: 1-Chlorooctane</i>			115 %	28.3-164		7071202	MS	12-Jul-17	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			123 %	34.7-157		7071202	MS	12-Jul-17	8015B	

**Green Analytical Laboratories**
**Soluble (DI Water Extraction)**

Chloride	<10.0		10.0	mg/kg wet	10	B707153	JDA	20-Jul-17	EPA300.0	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Environmental Plus, Inc.  
 P.O. Box 1558  
 Eunice NM, 88231

 Project: CAPPS FEDERAL #1  
 Project Number: NONE GIVEN  
 Project Manager: Daniel Dominguez  
 Fax To: (505) 394-2601

 Reported:  
 24-Jul-17 15:47

**ESW 1**  
**H701794-05 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**
**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	7071305	MS	13-Jul-17	8021B	
Toluene*	<0.050		0.050	mg/kg	50	7071305	MS	13-Jul-17	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	7071305	MS	13-Jul-17	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	7071305	MS	13-Jul-17	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	7071305	MS	13-Jul-17	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %	72-148		7071305	MS	13-Jul-17	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	<10.0		10.0	mg/kg	1	7071202	MS	12-Jul-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7071202	MS	12-Jul-17	8015B	
<i>Surrogate: 1-Chlorooctane</i>			112 %	28.3-164		7071202	MS	12-Jul-17	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			119 %	34.7-157		7071202	MS	12-Jul-17	8015B	

**Green Analytical Laboratories**
**Soluble (DI Water Extraction)**

Chloride	<10.0		10.0	mg/kg wet	10	B707153	JDA	20-Jul-17	EPA300.0	
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Environmental Plus, Inc.  
 P.O. Box 1558  
 Eunice NM, 88231

 Project: CAPPS FEDERAL #1  
 Project Number: NONE GIVEN  
 Project Manager: Daniel Dominguez  
 Fax To: (505) 394-2601

 Reported:  
 24-Jul-17 15:47

**ESW 2**
**H701794-06 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**
**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	7071305	MS	13-Jul-17	8021B	
Toluene*	<0.050		0.050	mg/kg	50	7071305	MS	13-Jul-17	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	7071305	MS	13-Jul-17	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	7071305	MS	13-Jul-17	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	7071305	MS	13-Jul-17	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %	72-148		7071305	MS	13-Jul-17	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	<10.0		10.0	mg/kg	1	7071202	MS	12-Jul-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7071202	MS	12-Jul-17	8015B	
<i>Surrogate: 1-Chlorooctane</i>			108 %	28.3-164		7071202	MS	12-Jul-17	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			113 %	34.7-157		7071202	MS	12-Jul-17	8015B	

**Green Analytical Laboratories**
**Soluble (DI Water Extraction)**

Chloride	10.3		10.0	mg/kg wet	10	B707153	JDA	20-Jul-17	EPA300.0	
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Environmental Plus, Inc.  
 P.O. Box 1558  
 Eunice NM, 88231

 Project: CAPPS FEDERAL #1  
 Project Number: NONE GIVEN  
 Project Manager: Daniel Dominguez  
 Fax To: (505) 394-2601

 Reported:  
 24-Jul-17 15:47

**WSW 2**
**H701794-07 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**
**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	7071305	MS	13-Jul-17	8021B	
Toluene*	<0.050		0.050	mg/kg	50	7071305	MS	13-Jul-17	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	7071305	MS	13-Jul-17	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	7071305	MS	13-Jul-17	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	7071305	MS	13-Jul-17	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %	72-148		7071305	MS	13-Jul-17	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	<10.0		10.0	mg/kg	1	7071202	MS	12-Jul-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7071202	MS	12-Jul-17	8015B	
<i>Surrogate: 1-Chlorooctane</i>			111 %	28.3-164		7071202	MS	12-Jul-17	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			111 %	34.7-157		7071202	MS	12-Jul-17	8015B	

**Green Analytical Laboratories**
**Soluble (DI Water Extraction)**

Chloride	<10.0		10.0	mg/kg wet	10	B707153	JDA	20-Jul-17	EPA300.0	
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Environmental Plus, Inc.  
 P.O. Box 1558  
 Eunice NM, 88231

 Project: CAPPS FEDERAL #1  
 Project Number: NONE GIVEN  
 Project Manager: Daniel Dominguez  
 Fax To: (505) 394-2601

 Reported:  
 24-Jul-17 15:47

**BH 1**  
**H701794-08 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**
**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	7071305	MS	13-Jul-17	8021B	
Toluene*	<0.050		0.050	mg/kg	50	7071305	MS	13-Jul-17	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	7071305	MS	13-Jul-17	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	7071305	MS	13-Jul-17	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	7071305	MS	13-Jul-17	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			102 %	72-148		7071305	MS	13-Jul-17	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	<10.0		10.0	mg/kg	1	7071202	MS	12-Jul-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7071202	MS	12-Jul-17	8015B	
<i>Surrogate: 1-Chlorooctane</i>			109 %	28.3-164		7071202	MS	12-Jul-17	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			115 %	34.7-157		7071202	MS	12-Jul-17	8015B	

**Green Analytical Laboratories**
**Soluble (DI Water Extraction)**

Chloride	<10.0		10.0	mg/kg wet	10	B707153	JDA	20-Jul-17	EPA300.0	
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Environmental Plus, Inc.  
 P.O. Box 1558  
 Eunice NM, 88231

 Project: CAPPS FEDERAL #1  
 Project Number: NONE GIVEN  
 Project Manager: Daniel Dominguez  
 Fax To: (505) 394-2601

 Reported:  
 24-Jul-17 15:47

**Volatile Organic Compounds by EPA Method 8021 - Quality Control**
**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 7071305 - Volatiles**
**Blank (7071305-BLK1)**

Prepared &amp; Analyzed: 13-Jul-17

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>	<i>0.0512</i>		mg/kg	<i>0.0500</i>		<i>102</i>	<i>72-148</i>			

**LCS (7071305-BS1)**

Prepared &amp; Analyzed: 13-Jul-17

Benzene	2.06	0.050	mg/kg	2.00		103	79.5-124			
Toluene	1.93	0.050	mg/kg	2.00		96.5	75.5-127			
Ethylbenzene	2.05	0.050	mg/kg	2.00		102	77.7-125			
Total Xylenes	6.08	0.150	mg/kg	6.00		101	70.9-124			
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>	<i>0.0519</i>		mg/kg	<i>0.0500</i>		<i>104</i>	<i>72-148</i>			

**LCS Dup (7071305-BSD1)**

Prepared &amp; Analyzed: 13-Jul-17

Benzene	2.02	0.050	mg/kg	2.00		101	79.5-124	1.87	6.5	
Toluene	1.89	0.050	mg/kg	2.00		94.5	75.5-127	2.07	7.02	
Ethylbenzene	2.00	0.050	mg/kg	2.00		100	77.7-125	2.17	7.83	
Total Xylenes	5.94	0.150	mg/kg	6.00		99.0	70.9-124	2.38	7.78	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>	<i>0.0512</i>		mg/kg	<i>0.0500</i>		<i>102</i>	<i>72-148</i>			

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Environmental Plus, Inc.  
 P.O. Box 1558  
 Eunice NM, 88231

 Project: CAPPS FEDERAL #1  
 Project Number: NONE GIVEN  
 Project Manager: Daniel Dominguez  
 Fax To: (505) 394-2601

 Reported:  
 24-Jul-17 15:47

**Petroleum Hydrocarbons by GC FID - Quality Control**
**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 7071202 - General Prep - Organics**
**Blank (7071202-BLK1)**

Prepared &amp; Analyzed: 12-Jul-17

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
<i>Surrogate: 1-Chlorooctane</i>	59.5		mg/kg	50.0		119	28.3-164			
<i>Surrogate: 1-Chlorooctadecane</i>	66.0		mg/kg	50.0		132	34.7-157			

**LCS (7071202-BS1)**

Prepared &amp; Analyzed: 12-Jul-17

GRO C6-C10	206	10.0	mg/kg	200		103	76.6-119			
DRO >C10-C28	230	10.0	mg/kg	200		115	81.4-124			
Total TPH C6-C28	436	10.0	mg/kg	400		109	79.4-121			
<i>Surrogate: 1-Chlorooctane</i>	55.0		mg/kg	50.0		110	28.3-164			
<i>Surrogate: 1-Chlorooctadecane</i>	62.6		mg/kg	50.0		125	34.7-157			

**LCS Dup (7071202-BSD1)**

Prepared &amp; Analyzed: 12-Jul-17

GRO C6-C10	218	10.0	mg/kg	200		109	76.6-119	5.82	7.94	
DRO >C10-C28	245	10.0	mg/kg	200		122	81.4-124	6.07	9.83	
Total TPH C6-C28	463	10.0	mg/kg	400		116	79.4-121	5.96	8.57	
<i>Surrogate: 1-Chlorooctane</i>	57.8		mg/kg	50.0		116	28.3-164			
<i>Surrogate: 1-Chlorooctadecane</i>	64.9		mg/kg	50.0		130	34.7-157			

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Environmental Plus, Inc.  
 P.O. Box 1558  
 Eunice NM, 88231

 Project: CAPPS FEDERAL #1  
 Project Number: NONE GIVEN  
 Project Manager: Daniel Dominguez  
 Fax To: (505) 394-2601

 Reported:  
 24-Jul-17 15:47

**Soluble (DI Water Extraction) - Quality Control**
**Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B707153 - General Prep - Wet Chem**
**Blank (B707153-BLK1)**

Prepared: 19-Jul-17 Analyzed: 20-Jul-17

Chloride	ND	10.0	mg/kg wet							
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**LCS (B707153-BS1)**

Prepared: 19-Jul-17 Analyzed: 20-Jul-17

Chloride	236	10.0	mg/kg wet	250		94.2	85-115			
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**LCS Dup (B707153-BSD1)**

Prepared: 19-Jul-17 Analyzed: 20-Jul-17

Chloride	232	10.0	mg/kg wet	250		92.7	85-115	1.69	20	
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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

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

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Celey D. Keene, Lab Director/Quality Manager



**ATTACHMENT IV**  
**Copy of Initial NMOCD Form C-141**  
**Final 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

Form C-141  
Revised August 8, 2011

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

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

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company: Chevron USA, Inc.	Contact: Josepha DeLeon
Address: 6301 Deauville Blvd., Midland, TX 79706	Telephone No.: ofc: 575-263-0424; mobile: 432-425-1528
Facility Name: Capps Federal No. 1	Facility Type: Oilwell

Surface Owner: Federal	Mineral Owner: Federal	API No. 3002534267
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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
<b>B</b>	24	20S	38E	660	North	1980	East	Eddy

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_ **32.5640221,-103.0999908**

**NATURE OF RELEASE**

Type of Release: Spill	Volume of Release: 26.80 barrels produced water	Volume Recovered: 26 barrels produced water
Source of Release: Bleeder Valve	Date and Hour of Occurrence: 01/07/2017; 1:30 PM	Date and Hour of Discovery: 01/07/2017; 1:30 PM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Maxey Brown	
By Whom? Josepha DeLeon	Date and Hour: 01/07/2017; 2:00 pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

**RECEIVED**  
**By Olivia Yu at 2:17 pm, Feb 06, 2017**

If a Watercourse was Impacted, Describe Fully.\*  
N/A

Describe Cause of Problem and Remedial Action Taken.\*  
Suspected vandalism – Sherriff department was called to location. Field specialist found open bleeder valve at bottom of tank. Isolated lease to close valve.

Describe Area Affected and Cleanup Action Taken.\*  
Fluid released into the bermed containment. Vacuum truck extracted standing liquid. Recovered 26 barrels produced water. Remediation plan will follow.

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:	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Josepha DeLeon	Approved by Environmental Specialist:	
Title: HES Specialist – Compliance Support - Environmental	Approval Date: <b>02/6/2017</b>	Expiration Date:
E-mail Address: jdx@chevron.com	Conditions of Approval: <b>see attached directive</b>	Attached <input checked="" type="checkbox"/>
Date: 01/19/2017	Phone: 432-425-1528	

\* Attach Additional Sheets If Necessary

**1RP-4579** **pOY1703751433** **nOY1703751016**

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

Form C-141  
Revised August 8, 2011

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

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

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company: Chevron USA, Inc.	Contact: Josepha DeLeon
Address: 6301 Deauville Blvd., Midland, TX 79706	Telephone No. ofc: 575-263-0424; mobile: 432-425-1528
Facility Name: Capps Federal No. 1; 1RP #4579	Facility Type: Oilwell

Surface Owner: Federal	Mineral Owner: Federal	API No. 3002534267
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**LOCATION OF RELEASE**

Unit Letter B	Section 24	Township 20S	Range 38E	Feet from the 660	North/South Line North	Feet from the 1980	East/West Line East	County Lea
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Latitude: N 32.5640221° Longitude: W 103.0999908°

**NATURE OF RELEASE**

Type of Release: spill	Volume of Release: 26.80 bbls	Volume Recovered: 26 bbls
Source of Release: bleeder valve	Date and Hour of Occurrence: 1/7/17 @ 1:30 pm	Date and Hour of Discovery: 1/7/17 @ 1:30 pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Maxie Brown	
By Whom? Josepha DeLeon	Date and Hour: 1/7/17 @ 2:00 pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse: Not Applicable	

If a Watercourse was Impacted, Describe Fully.\* Not Applicable

Describe Cause of Problem and Remedial Action Taken.\*

Suspected vandalism – Sherriff department was called to location. Field specialist found open bleeder valve at bottom of tank. Isolated lease to close valve.

Describe Area Affected and Cleanup Action Taken.\*

Fluid released into the bermed containment. Vacuum truck extracted standing liquid. Recovered 26 barrels produced water. Samples were collected and contaminated soil was excavated and hauled to a state approved disposal facility. Based on laboratory analytical data and NMOCD approval the area was excavated, 20 mil poly liner installed, and backfilled with clean soil.

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: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Josepha DeLeon	Approved by Environmental Specialist:	
Title: HES Specialist – Compliance Support – Environmental	Approval Date:	Expiration Date:
E-mail Address:  @chevron.com	Conditions of Approval:	
Date:	Phone: 432-425-1528	Attached <input type="checkbox"/>

\* Attach Additional Sheets If Necessary



# Chevron

Operator # 147179

~~Chesapeake~~  
ENERGY

CAPPS FEDERAL No. 1  
660' FNL & 1980' FEL  
NW/4 NE/4 SECTION 24-20S-38E  
BLM No. NMNM97163  
API No. 30-025-34267 40 ACRES  
LEA COUNTY, NM



**CAUTION**  
**NO SMOKING OR OPEN FLAMES**



04/09/2018



04/09/2018



04/09/2018



04/09/2018



04/09/2018



04/09/2018



04/09/2018



04/09/2018