4024 Plains Hwy Lovington, NM 88260 ddominguez@hungry-horse.com Office: (575) 393-3386



Final Closure Report

Grizzly Operating, LLC
Horse Creek Com #2
Chaves County, New Mexico
Unit Letter "E", Section 11, Township 5 South, Range 24 East
Latitude 33.8888512 North, Longitude 104.3996964 West
NMOCD Incident # nAB1701252341

Prepared For:

Grizzly Operating, LLC 4001 Penbrook, Suite 201 Odessa, TX 79762

Prepared By:

Hungry Horse LLC 4024 Plains Hwy Lovington, NM 88260

August 2020

Lindsey Nevels

Project Manager

Daniel Dominguez

Sr. Project Manager

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HUNGRY HORSE, LLC

The following *Final Closure Report* serves as a condensed update on field activities undertaken at the above referenced site which was remediated prior to the August 2018 rule replacement.

Background:

The site is located in Unit Letter E (SW/NW), Section 11, Township 5 South, Range 24 East, approximately 35 miles north of Roswell, in Chaves County, New Mexico. The property is owned by the Waynette Wooton Trust. Topographic Map, and Water Well Proximity Map are included as Figure 1 and Figure 2, respectively.

The release site was located on an active well pad; latitude 33.8888512 North, Longitude 104.3996964 West. The Initial NMOCD Form C-141 indicates that on December 20, 2016, a field inspector discovered apparent corrosion on the wellhead and a casing valve leak. An unknown amount of produced water was released affecting an approximate area of fifteen feet by fifteen feet at the well head. The visually stained area totaled approximately 225 square feet and was initially dug out to a depth of approximately seven feet below ground surface (bgs) by an environmental contractor hired by Vanguard Operating. Impacted soil was hauled to an NMOCD approved facility for disposal. Previously submitted Initial NMOCD Form C-141 is available on the NMOCD Imaging System. The Final NMOCD Form C-141 is included as Attachment IV.

Vanguard Operating then requested EPI conduct a site assessment, vertical and horizontal sampling, and prepare a Site Characterization and Work Plan.

NMOCD Site Classification:

A search of the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) groundwater databases was completed to determine the horizontal distance to known water sources within a half mile radius of the release site. The search returned no wells located within a half mile radius of the release site. Also, no wells (domestic, agriculture or public) and no bodies of surface water exist within a 1,000-foot radius of the release site. The NMOSE database indicates average water depth is approximately 199 feet bgs within a 4,500-meter radius. However, as this is too great a distance to accurately determine depth to water for this location and the closest documented well to this location is 1,943 meters away and doesn't provide depth to groundwater, the Chaves county groundwater flowline map was utilized to determine an approximate depth to water of seventy-five to one hundred feet bgs. Depth to groundwater information is provided as Attachment II and the results are depicted on Figure 2.

Utilizing this information and the NMOCD guidelines for spills that occurred prior to August 2018, it was determined that the Horse Creek Com #2 site have a ranking score of ten.



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 -1,000 mg/Kg, and Chloride -600 mg/Kg.

Regulatory Approval:

On July 26, 2017, a Site Characterization and Work Plan was submitted to the NMOCD. The report proposed a remediation strategy designed to progress the site toward approved closure. The Site Characterization and Work Plan was approved on August 10, 2017 and is available on the NMOCD imaging system.

Please refer to the Site Characterization and Work Plan for details regarding the site and proposed remediation activities.

Remediation Activities:

From November 16 - 18, 2017, remediation activities commenced on location. In accordance with the approved work plan, impacted soil around the edge of the existing excavation was excavated one foot laterally and three feet vertically. Excavated soil was then hauled to an NMOCD approved disposal facility. After excavation activities were complete, a 20-millimeter poly-ethylene liner was installed, at seven feet bgs, covering the deepest portion of the excavation and extended up the sidewalls to also cover the newly excavated area at three feet bgs.

An Excavation Area Map is provided as Figure 3, a Summary of Soil Sample Field and Laboratory Analytical Results is provided as Table 1, and Laboratory Analytical Reports are provided as Attachment III.

The final dimensions of the excavated area were approximately 20 ft. in length and 20 ft. in width and ranged from 3 ft. to 7 ft. in depth. During remediation activities approximately 40 cubic yards of impacted soil were hauled to an NMOCD approved disposal facility.

Restoration, Reclamation, and Re-Vegetation:

After the liner was installed the excavation was backfilled with clean, non-impacted, like material and replaced to the near original relative positions. The areas were contoured to achieve erosion control and preserve surface water flow. And as the release occurred on an active well pad, no seeding will be required.

Closure Request:

Remediation activities were conducted in accordance with the NMOCD approved Site Characterization and Work Plan, and applicable NMOCD Regulations for spills that occurred prior to August 2018. Soil affected above the NMOCD RRALs was excavated and hauled to an



NMOCD approved facility for disposal. Laboratory analytical results from soil samples indicate concentrations of BTEX, TPH, and chloride are below the NMOCD RRALs as well as the current NMOCD Closure Criteria. The Horse Creek Com #2 was subsequently plugged and abandoned on December 2, 2017, with final reclamation of the site pending closure of this incident file.

Based on laboratory analytical results and field activities conducted to date, Hungry Horse recommends Grizzly Operating, LLC provide copies of this *Final Closure Report* to the appropriate agencies and request closure be granted to the Horse Creek Com #2.

Limitations:

Hungry Horse, LLC, has prepared this Site Assessment and Remediation Work Plan to the best of its ability. No other warranty, expressed or implied, is made or intended. Hungry Horse has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Hungry Horse has not conducted an independent examination of the facts contained in referenced materials and statements. Hungry Horse has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Hungry Horse notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.



Distribution:

Grizzly Operating, LLC 4001 Penbrook, Suite 201 Odessa, TX 79762

New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division, District 2 811 S. First St. Artesia, NM 88210

Figures

Received by OCD: 8/23/2020 8:42:16 AM Page 9 of 58 2.1 Miles 335427104245401 Artesia - 1994 - 142.52' FS:01132 FS:01446:POD1 LWD-00624-POD1 FS:01134 FS-01135 FS-01583-POD1 1:36111 Figure 2 Legend: Water Well Proximity Map Horse Creek Com #2 Location Grizzly Operating, LLC **OSE Active Well** Horse Creek Com #2 OSE Pending Well Drafted: dd GPS: 33.8888512, -104.3996964 OSE Unknown Well Checked: Imn **Chaves County USGS Well** 8/18/20 Date:



Excavation Area Map Grizzly Operating, LLC Horse Creek Com #2 GPS: 33.8888512, -104.3996964 Chaves County Excavated three feet bgs and lined
Excavated seven feet bgs and lined

Drafted: dd Checked: Imn Date: 7/21/20



Tables

TABLE 1

Summary of Soil Sample Field and Laboratory Analytical Results Grizzly Operating, LLC

Horse Creek Com #2

NMOCD Ref. #: nAB1701252341

Sample ID	Date	Depth (ft)	Soil Status	PIP Reading (ppm)	Field Chloride (mg/kg)	Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
	4/26/17	Surf	In-Situ	0.0	240	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
	4/26/17	3	In-Situ	0.0	640	-	-	-	-	-	-	-	-
SP1	4/26/17	7	In-Situ	0.0	400	-	-	-	-	-	-	-	-
	4/26/17	10	In-Situ	0.0	240	-	-	-	-	-	-	-	-
	4/26/17	15	In-Situ	0.0	160	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96
	4/26/17	Surf	In-Situ	0.0	240	<0.050	<0.300	<10.0	22.3	22.3	<10.0	22.3	176
SP2	4/26/17	3	In-Situ	0.0	240	-	-	-	-	-	-	-	-
372	4/26/17	5	In-Situ	0.0	160	-	-	-	-	-	-	-	-
	4/26/17	10	In-Situ	0.0	160	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
	4/26/17	Surf	In-Situ	0.0	240	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
	4/26/17	3	In-Situ	0.0	240	-	-	-	-	-	-	-	-
SP3	4/26/17	5	In-Situ	0.0	80	-	-	-	-	-	-	-	-
	4/26/17	8	In-Situ	0.0	80	-	-	-	-	-	-	-	-
	4/26/17	10	In-Situ	0.0	80	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80
	4/26/17	Surf	In-Situ	0.0	80	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
	4/26/17	3	In-Situ	0.0	80	-	-	-	-	-	-	-	-
SP4	4/26/17	5	In-Situ	0.0	160	-	-	-	-	-	-	-	-
	4/26/17	8	In-Situ	0.0	80	-	-	-	-	-	-	-	-
	4/26/17	10	In-Situ	0.0	80	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96
NW	4/27/17	3	Excavated	0.0	1,360	-	-	-	-	-	-	-	-
EW	4/27/17	3	Excavated	0.0	720	-	-	-	-	-	-	-	-
SW	4/27/17	3	Excavated	0.0	1,600	-	-	-	-	-	-	-	-
WW	4/27/17	3	Excavated	0.0	400	-	-	-	-	-	-	-	-
	7/11/17	8	In-Situ	1.4	240	<0.050	<0.300	<10.0	<10.0	<20.0	53.1	53.1	64
	7/11/17	10	In-Situ	1.0	200	-	-	-	-	-	-	-	-
SPA	7/11/17	12	In-Situ	0.5	200	-	-	-	-	-	-	-	-
	7/11/17	14	In-Situ	0.2	200	-	-	-	-	-	-	-	-
	7/11/17	16	In-Situ	0.3	160	<0.050	<0.300	<10.0	<10.0	<20.0	12	12	80
	7/11/17	8	In-Situ	1.0	200	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48
	7/11/17	10	In-Situ	0.5	160	-	-	-	-	-	-	-	-
SPB	7/11/17	12	In-Situ	0.5	160	-	-	-	-	-	-	-	_
-	7/11/17	14	In-Situ	0.5	160	-	_	-	-	-	-	-	-
	7/11/17	16	In-Situ	0.3	160	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96
	7/11/17	8	In-Situ	1.0	200	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48
	7/11/17	10	In-Situ	0.8	200	-	-	-	-	-	-	-	-
SPC	7/11/17	12	In-Situ	0.6	200	-	_	_	_	_	-	_	
5. 6				0.6	200	-	_	_	_		-	_	_
	//11/1 /	14											
	7/11/17 7/11/17	14 16	In-Situ In-Situ	0.3	200	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80

NOTES:

^{- =} Sample not analyzed for that constituent.

TABLE 1

Summary of Soil Sample Field and Laboratory Analytical Results Grizzly Operating, LLC

Horse Creek Com #2

NMOCD Ref. #: nAB1701252341

Sample ID	Date	Depth (ft)	Soil Status	PIP Reading (ppm)	Field Chloride (mg/kg)	Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
SPD	7/11/17	Surf	Excavated	0.0	200	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32
340	7/11/17	3	In-Situ	0.0	200	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80
SPE	7/11/17	Surf	Excavated	0.0	200	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80
JFL	7/11/17	3	In-Situ	0.0	160	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80
SPF	7/11/17	Surf	Excavated	0.0	200	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80
JFF	7/11/17	3	In-Situ	0.0	200	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80
NMOC	D Closure C	riteria		-	-	10	50	-	-	-	-	1,000	600

Attachment I Site Photographs

Photographic Log

Photo

1

Direction Northwest

Description
Excavation prior to
extending the sidewalls
one foot laterally and
three feet vertically.



Photo

2

Direction Northwest

Description

After excavating the sidewalls.



Photographic Log

Photo 3

Direction Northwest

Description
Installation of liner at seven feet bgs and extended up the sidewalls to cover the newly excavated area at three feet bgs.



Photo 4

4

Direction North

DescriptionBackfilling after installation of liner.



Photographic Log



Attachment II Depth to Groundwater Information



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 Sub-		Q	Q	Q							Depth	Depth	Water
POD Number	Code basin	County	64	16	4 :	Sec	Tws	Rng	Х	Υ	Distance	Well	Water	Column
FS 01132	FS	СН	1	1	3	14	05S	24E	555412	3748053* 🌕	1943	60		
FS 01134	FS	СН	2	2	2	21	05S	24E	553572	3747249* 🌕	3359	60		
FS 00557	FS	СН	3	3	4	22	05S	24E	554601	3745835* 🌍	4256	411	380	31
FS 01136	FS	СН	3	3	4	22	05S	24E	554601	3745835* 🌍	4256	378		
FS 01135	FS	СН	1	4	1	21	05S	24E	552559	3746845* 🌍	4314	40	18	22
FS 01137	FS	СН	1	4	3	24	05S	24E	557456	3746025* 🌍	4420	100		

Average Depth to Water: 199 feet

> Minimum Depth: 18 feet

Maximum Depth: 380 feet

Record Count: 6

UTMNAD83 Radius Search (in meters):

Easting (X): 555509 Radius: 4500 Northing (Y): 3749994

*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.



Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number

Q64 Q16 Q4 Sec Tws Rng

X Y

FS 01132

1 3 14 05S 24E

555412 3748053*

6

Driller License:

Driller Company:

Driller Name:

Drill Start Date: Drill Finish Date: 12/31/1944
Log File Date: PCW Rcv Date:

Plug Date:

rew Kev Date:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size: 6.63 Depth Well:

60 feet

Depth Water:

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.

8/19/20 3:02 PM

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help



Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number

Q64 Q16 Q4 Sec Tws Rng

X V

FS 01134

2 2 21 05S 24E

553572 3747249*

6

Driller License:

Driller Company:

Driller Name: RED YOUNG

Drill Start Date: Drill Finish Date: 11/30/1980 Plug Date:
Log File Date: PCW Rev Date: Source:

Pump Type:Pipe Discharge Size:Estimated Yield:Casing Size:6.63Depth Well:60 feetDepth Water:

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.

8/19/20 3:01 PM

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help



Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** Q64 Q16 Q4 Sec Tws Rng

FS 01135

05S 24E 1 21

552559 3746845*

Driller License:

Driller Company:

CONES DRILLING COMPANY

Driller Name: CONES, RICKEY

Drill Start Date:

02/28/2000

03/01/2000

Plug Date:

Shallow

Log File Date:

03/17/2000

Drill Finish Date: PCW Rcv Date:

Source:

Estimated Yield:

Pump Type:

Pipe Discharge Size:

10 GPM

Casing Size:

5.00

Depth Well:

40 feet

Bottom Description

Depth Water:

18 feet

Water Bearing Stratifications:

Top 18

Sandstone/Gravel/Conglomerate

Casing Perforations:

Bottom Top

40 20

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.

8/19/20 3:00 PM

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help



Water Right Summary

get image list

WR File Number: FS 01446 Subbasin: FS Cross Reference: -

Primary Purpose: STK 72-12-1 LIVESTOCK WATERING

Primary Status: EXP EXPIRED

Total Acres: Subfile: - Header: -

Total Diversion: 0 Cause/Case: -

Owner: RASTER N CATTLE CO
Contact: RICHARD NOLTE

Documents on File

Status From/

Trn# Doc File/Act 1 2 Transaction Desc. To Acres Diversion Consumptive

get 409716 72121 2008-06-17 EXP EXP FS 01446 T 3

Current Points of Diversion

(NAD83 UTM in meters)

 POD Number
 Well Tag
 Source
 64 Q16Q4Sec Tws Rng
 X
 Y
 Other Location Desc

 FS 01446 POD1
 4
 1
 4
 17
 05S 24E
 551606
 3747823
 m

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.

8/19/20 3:00 PM WATER RIGHT SUMMARY



Water Right Summary

get image list

WR File Number: FS 01583 Subbasin: FS Cross Reference: -

Primary Purpose: EXP EXPLORATION

Primary Status: PMT PERMIT

Total Acres: Subfile: - Header: -

Total Diversion: 0 Cause/Case: -

Owner: TETRATECH
Contact: CHRIS CORTEZ

Documents on File

Status From/

Trn# Doc File/Act 1 2 Transaction Desc. To Acres Diversion Consumptive

get <u>spaces</u> <u>510778 EXPL 2012-08-24</u> PMT APR FS 01583 T 0 0

Current Points of Diversion

(NAD83 UTM in meters)

 POD Number
 Well Tag
 Source
 64Q16Q4Sec Tws Rng
 X
 Y
 Other Location Desc

 FS 01583 POD1
 3
 4
 1
 24
 055
 24E
 557543
 3746747
 n

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.

8/19/20 3:02 PM WATER RIGHT SUMMARY



Water Right Summary

get image list

WR File Number: LWD 00624 Cross Reference: LWD-FS-161 Subbasin: FS

NON 72-12-1 LIVESTOCK WATERING **Primary Purpose: PLS**

Primary Status: DCL DECLARATION

> **Total Acres:** Subfile: Header: -

Total Diversion: Cause/Case:

LOIS BENEDICT

Documents on File

From/ Status

To Trn# File/Act 1 2 Transaction Desc. Diversion Consumptive Doc Acres

603585 DCL 1992-08-10 DCL PRC LWD-FS-161

Current Points of Diversion

(NAD83 UTM in meters)

POD Number 64Q16Q4Sec Tws Rng Other Location Desc

LWD 00624 POD1 3 18 05S 25E 558781 3747538* LWD-P-424

An () after northing value indicates UTM location was derived from PLSS - see Help

Priority Summary

Diversion Pod Number Priority Status Acres 12/31/1962

DCL 0 LWD 00624 POD1

Place of Use

256 64 Q16 Q4Sec Tws Rng **Status Other Location Desc** Diversion CU Use Priority Acres

3 3 18 05S 25E PLS 12/31/1962

Source

Acres Diversion Use Priority Source Description

12/31/1962

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.

8/19/20 3:03 PM WATER RIGHT SUMMARY



USGS Home **Contact USGS** Search USGS

National Water Information System: Web Interface

USGS Water Resources

Geographic Area:

V United States Data Category: Groundwater ✓ GO

Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
 Full News

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 335427104245401

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 335427104245401 05S.24E.03.112423

Chaves County, New Mexico Latitude 33°54'27", Longitude 104°24'54" NAD27 Land-surface elevation 3,987 feet above NGVD29 The depth of the well is 230.00 feet below land surface.

This well is completed in the Artesia Group (313ARTS) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water- level date- time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water- level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurem
1988-12-29		D	142.83				2 F	8	5	
1994-02-03		D	142.52				2 2	2	5	

Explanation

Code	Description
D	Date is accurate to the Day
2	Water level accuracy to nearest hundredth of a foot
R	Site had been pumped recently.
Z	Other conditions existed that would affect the measured water level (explain in remarks).
S	Steel-tape measurement.
	Not determined
U	Source is unknown.
Α	Approved for publication Processing and review completed.
	D 2 R 2 S

Questions about sites/data? Feedback on this web site **Automated retrievals** Help Data Tips **Explanation of terms**

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Accessibility FOIA Privacy Policies and Notices U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2020-08-19 16:45:56 EDT 0.24 0.22 nadww01

USA.gov

Attachment III Laboratory Analytical Reports



May 05, 2017

Daniel Dominguez

Environmental Plus, Inc.

P.O. Box 1558

Eunice, NM 88231

RE: HORSE CREEK COM #2

Enclosed are the results of analyses for samples received by the laboratory on 04/28/17 15:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Fax To: (505) 394-2601

Received: 04/28/2017 Sampling Date: 04/26/2017

Reported: 05/05/2017 Sampling Type: Soil

Project Name: HORSE CREEK COM #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: UL-C SEC.11, T5S, R24E

Sample ID: SP1 (SURFACE) (H701150-01)

BTEX 8021B	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/01/2017	ND	1.90	95.0	2.00	3.78	
Toluene*	< 0.050	0.050	05/01/2017	ND	1.83	91.3	2.00	3.72	
Ethylbenzene*	< 0.050	0.050	05/01/2017	ND	1.87	93.4	2.00	3.63	
Total Xylenes*	<0.150	0.150	05/01/2017	ND	5.33	88.9	6.00	3.74	
Total BTEX	<0.300	0.300	05/01/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9 9	% 72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	05/01/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/01/2017	ND	175	87.3	200	2.73	
DRO >C10-C28	<10.0	10.0	05/01/2017	ND	184	92.1	200	2.28	
Surrogate: 1-Chlorooctane	87.2 9	28.3-16	4						
Surrogate: 1-Chlorooctadecane	95.79	% 34.7-15	7						

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Celey & Keene



Sample Received By:

04/26/2017

Tamara Oldaker

Analytical Results For:

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

Fax To: (505) 394-2601

Received: 04/28/2017 Sampling Date:

Reported: 05/05/2017 Sampling Type: Soil
Project Name: HORSE CREEK COM #2 Sampling Condition: Cool & Intact

Project Location: UL-C SEC.11, T5S, R24E

NONE GIVEN

Sample ID: SP1 (15') (H701150-02)

Project Number:

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/01/2017	ND	1.90	95.0	2.00	3.78	
Toluene*	<0.050	0.050	05/01/2017	ND	1.83	91.3	2.00	3.72	
Ethylbenzene*	<0.050	0.050	05/01/2017	ND	1.87	93.4	2.00	3.63	
Total Xylenes*	<0.150	0.150	05/01/2017	ND	5.33	88.9	6.00	3.74	
Total BTEX	<0.300	0.300	05/01/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6 9	% 72-148	}						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/01/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/01/2017	ND	175	87.3	200	2.73	
DRO >C10-C28	<10.0	10.0	05/01/2017	ND	184	92.1	200	2.28	
Surrogate: 1-Chlorooctane	84.6	28.3-16	4						
Surrogate: 1-Chlorooctadecane	96.2 9	% 34.7-15	7						

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Celey D. Keene



Analytical Results For:

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

Fax To: (505) 394-2601

Received: 04/28/2017 Sampling Date: 04/26/2017

Reported: 05/05/2017 Sampling Type: Soil

Project Name: HORSE CREEK COM #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: UL-C SEC.11, T5S, R24E

Sample ID: SP2 (SURFACE) (H701150-03)

BTEX 8021B	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/01/2017	ND	1.90	95.0	2.00	3.78	
Toluene*	<0.050	0.050	05/01/2017	ND	1.83	91.3	2.00	3.72	
Ethylbenzene*	<0.050	0.050	05/01/2017	ND	1.87	93.4	2.00	3.63	
Total Xylenes*	<0.150	0.150	05/01/2017	ND	5.33	88.9	6.00	3.74	
Total BTEX	<0.300	0.300	05/01/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0 9	% 72-148	,						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/01/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/01/2017	ND	175	87.3	200	2.73	
DRO >C10-C28	<10.0	10.0	05/01/2017	ND	184	92.1	200	2.28	
Surrogate: 1-Chlorooctane	61.6 9	28.3-16	4						
Surrogate: 1-Chlorooctadecane	73.3 9	% 34.7-15	7						

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Celey & Keene



Analytical Results For:

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

Fax To: (505) 394-2601

Received: 04/28/2017 Sampling Date: 04/26/2017

Reported: 05/05/2017 Sampling Type: Soil

Project Name: HORSE CREEK COM #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: UL-C SEC.11, T5S, R24E

Sample ID: SP2 (10') (H701150-04)

BTEX 8021B	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2017	ND	1.91	95.5	2.00	0.137	
Toluene*	<0.050	0.050	05/02/2017	ND	1.83	91.5	2.00	0.106	
Ethylbenzene*	<0.050	0.050	05/02/2017	ND	1.87	93.7	2.00	0.609	
Total Xylenes*	<0.150	0.150	05/02/2017	ND	5.34	89.0	6.00	0.446	
Total BTEX	<0.300	0.300	05/02/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.6 9	% 72-148	}						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/01/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/01/2017	ND	175	87.3	200	2.73	
DRO >C10-C28	<10.0	10.0	05/01/2017	ND	184	92.1	200	2.28	
Surrogate: 1-Chlorooctane	86.1 9	28.3-16	4						
Surrogate: 1-Chlorooctadecane	97.0 9	% 34.7-15	7						

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Celey D. Keens



Analytical Results For:

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

Fax To: (505) 394-2601

Received: 04/28/2017 Sampling Date: 04/27/2017

Reported: 05/05/2017 Sampling Type: Soil
Project Name: HORSE CREEK COM #2 Sampling Condition: Cool & Intact

Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: UL-C SEC.11, T5S, R24E

Sample ID: SP3 (SURFACE) (H701150-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	05/02/2017	ND	1.91	95.5	2.00	0.137	
Toluene*	<0.050	0.050	05/02/2017	ND	1.83	91.5	2.00	0.106	
Ethylbenzene*	<0.050	0.050	05/02/2017	ND	1.87	93.7	2.00	0.609	
Total Xylenes*	<0.150	0.150	05/02/2017	ND	5.34	89.0	6.00	0.446	
Total BTEX	<0.300	0.300	05/02/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9 9	% 72-148	}						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/01/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/02/2017	ND	183	91.4	200	2.09	
DRO >C10-C28	<10.0	10.0	05/02/2017	ND	194	96.9	200	2.95	
Surrogate: 1-Chlorooctane	75.4 9	28.3-16	4						
Surrogate: 1-Chlorooctadecane	97.3 9	% 34.7-15	7						

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Celey D. Keine



Analytical Results For:

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

Fax To: (505) 394-2601

Received: 04/28/2017 Sampling Date: 04/27/2017

Reported: 05/05/2017 Sampling Type: Soil

Project Name: HORSE CREEK COM #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: UL-C SEC.11, T5S, R24E

Sample ID: SP3 (10') (H701150-06)

Analyte	mg/kg		Analyzed By: MS						
	Result	Reporting Limit	Analyzed	Method Blank	BS % Recovery	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2017	ND	1.91	95.5	2.00	0.137	
Toluene*	<0.050	0.050	05/02/2017	ND	1.83	91.5	2.00	0.106	
Ethylbenzene*	<0.050	0.050	05/02/2017	ND	1.87	93.7	2.00	0.609	
Total Xylenes*	<0.150	0.150	05/02/2017	ND	5.34	89.0	6.00	0.446	
Total BTEX	<0.300	0.300	05/02/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9 9	% 72-148							
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/01/2017	ND	432	108	400	0.00	
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	05/02/2017	ND	183	91.4	200	2.09	
DRO >C10-C28	<10.0	10.0	05/02/2017	ND	194	96.9	200	2.95	
Surrogate: 1-Chlorooctane	79.8 9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	95.2 9	% 34.7-15	7						

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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: 04/28/2017 Sampling Date: 04/27/2017

Reported: 05/05/2017 Sampling Type: Soil

Project Name: HORSE CREEK COM #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: UL-C SEC.11, T5S, R24E

Sample ID: SP4 (SURFACE) (H701150-07)

Analyte	mg/kg		Analyzed By: MS						
	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2017	ND	1.91	95.5	2.00	0.137	
Toluene*	<0.050	0.050	05/02/2017	ND	1.83	91.5	2.00	0.106	
Ethylbenzene*	<0.050	0.050	05/02/2017	ND	1.87	93.7	2.00	0.609	
Total Xylenes*	<0.150	0.150	05/02/2017	ND	5.34	89.0	6.00	0.446	
Total BTEX	<0.300	0.300	05/02/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.2 9	% 72-148	,						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/01/2017	ND	432	108	400	0.00	
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	05/02/2017	ND	183	91.4	200	2.09	
DRO >C10-C28	<10.0	10.0	05/02/2017	ND	194	96.9	200	2.95	
Surrogate: 1-Chlorooctane	74.7 9	28.3-16	4						
Surrogate: 1-Chlorooctadecane	95.89	% 34.7-15	7						

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Celey D. Keene



04/27/2017

Analytical Results For:

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

Received: 04/28/2017

Reported: 05/05/2017 Sampling Type: Soil

Project Name: HORSE CREEK COM #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Sampling Date:

Project Location: UL-C SEC.11, T5S, R24E

Sample ID: SP4 (15') (H701150-08)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2017	ND	2.07	103	2.00	3.76	
Toluene*	<0.050	0.050	05/03/2017	ND	1.91	95.4	2.00	3.63	
Ethylbenzene*	<0.050	0.050	05/03/2017	ND	1.88	94.2	2.00	3.64	
Total Xylenes*	<0.150	0.150	05/03/2017	ND	5.33	88.9	6.00	3.77	
Total BTEX	<0.300	0.300	05/03/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.1	% 72-148							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/01/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/02/2017	ND	183	91.4	200	2.09	
DRO >C10-C28	<10.0	10.0	05/02/2017	ND	194	96.9	200	2.95	
Surrogate: 1-Chlorooctane	65.6	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	80.5	% 34.7-15	7						

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Celey D. Keens

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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Celeg D. Freene

Celey D. Keene, Lab Director/Quality Manager

Sampler Relinquished: Relinquished by: Delivered by:	10	9	8	7	6	51	4	3	2	1	LAB I.D.		EPI Sampler Name	Project Reference	Location	Facility Name	Client Company	EPI Phone#/Fax#	City, State, Lip	City State 7in	Mailing Address	EPI Project Manager	Company Name	2100 Avenue O, (575) 394-3481	Environn	•
Date 4-28-17 Received By. Time 6:00 am Date 4-28-17 Received By. Time 6:00 am Received By. Time 3:30 Sample Cool & Intact Yes No			SP4 (15')		SP3 (10')	SP3 (Surface)	4 SP2 (10')	3 SP2 (Surface)	SP1 (15')	SP1 (Surface)	SAMPLE I.D.		ne Dustin Crockett	e	UL- C Sec. 11, T5S, R24E	Horse Creek Com #2	Vanguard	£ 575-394-3481 / 575-394-2601		Funice New Mexico 88231	P.O. BOX 1558	ager Daniel Dominguez	Environmental Plus,	Eunice, NM 88231 FAX: (575) 394-2601	Environmental Flus, inc.	
V/ / (D /			G	G	G	ଜ	G	G	G	G	(G)RAB OR (C)OM	Ρ.			R24	2		94-		882			Inc.	P.0		
Received By: (lab staff)			1	1	_	_	_	1	1	1	# CONTAINERS				╓			60		ᆁ				P.O. Box 1558, Eunice, NM 88231		
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E-mail results to: ddominguezepi@gmail.com & cjohnston@vnrllc.com NOTES:			27-Apr-17	27-Apr-17	27-Apr-17	27-Apr-17	26-Apr-17	26-Apr-17	26-Apr-17	26-Apr-17	DATE	SAMPLING	Eunice, NM 88231	P.O. Box 1558	Attn: Daniel Dominguez								o			
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Page 11 of 11



July 18, 2017

Daniel Dominguez

Environmental Plus, Inc.

P.O. Box 1558

Eunice, NM 88231

RE: HORSE CREEK COM #2

Enclosed are the results of analyses for samples received by the laboratory on 07/12/17 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/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Wite Sough

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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



07/11/2017

Soil

Analytical Results For:

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

Fax To: (505) 394-2601

Received: 07/12/2017 Sampling Date:
Reported: 07/18/2017 Sampling Type:

Project Name: HORSE CREEK COM #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: UL-C SEC.11, T5S, R24E

Sample ID: SPA (8') (H701813-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2017	ND	2.15	108	2.00	1.12	
Toluene*	<0.050	0.050	07/14/2017	ND	2.04	102	2.00	0.920	
Ethylbenzene*	<0.050	0.050	07/14/2017	ND	2.17	109	2.00	1.49	
Total Xylenes*	<0.150	0.150	07/14/2017	ND	6.45	108	6.00	1.48	
Total BTEX	<0.300	0.300	07/14/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 72-148	}						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/13/2017	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/14/2017	ND	189	94.7	200	3.41	
DRO >C10-C28	<10.0	10.0	07/14/2017	ND	195	97.7	200	17.0	
EXT DRO >C28-C36	53.1	10.0	07/14/2017	ND					
Surrogate: 1-Chlorooctane	93.6	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	96.2	% 34.7-15	7						

Cardinal Laboratories *=Accredited Analyte

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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:
 07/12/2017
 Sampling Date:
 07/11/2017

 Reported:
 07/18/2017
 Sampling Type:
 Soil

Project Name: HORSE CREEK COM #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: UL-C SEC.11, T5S, R24E

Sample ID: SPA (16') (H701813-02)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2017	ND	2.15	108	2.00	1.12	
Toluene*	< 0.050	0.050	07/14/2017	ND	2.04	102	2.00	0.920	
Ethylbenzene*	<0.050	0.050	07/14/2017	ND	2.17	109	2.00	1.49	
Total Xylenes*	<0.150	0.150	07/14/2017	ND	6.45	108	6.00	1.48	
Total BTEX	<0.300	0.300	07/14/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 72-148	3						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/13/2017	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/14/2017	ND	189	94.7	200	3.41	
DRO >C10-C28	<10.0	10.0	07/14/2017	ND	195	97.7	200	17.0	
EXT DRO >C28-C36	12.0	10.0	07/14/2017	ND					
Surrogate: 1-Chlorooctane	101	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	101	% 34.7-15	7						

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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: 07/12/2017 Sampling Date: 07/11/2017 Reported: 07/18/2017 Sampling Type: Soil

Project Name: HORSE CREEK COM #2 Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: UL-C SEC.11, T5S, R24E

Sample ID: SPB (8') (H701813-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2017	ND	2.15	108	2.00	1.12	
Toluene*	<0.050	0.050	07/14/2017	ND	2.04	102	2.00	0.920	
Ethylbenzene*	<0.050	0.050	07/14/2017	ND	2.17	109	2.00	1.49	
Total Xylenes*	<0.150	0.150	07/14/2017	ND	6.45	108	6.00	1.48	
Total BTEX	<0.300	0.300	07/14/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 72-148							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/13/2017	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/14/2017	ND	189	94.7	200	3.41	
DRO >C10-C28	<10.0	10.0	07/14/2017	ND	195	97.7	200	17.0	
EXT DRO >C28-C36	<10.0	10.0	07/14/2017	ND					
Surrogate: 1-Chlorooctane	104 9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	107 9	% 34.7-15	7						

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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: 07/12/2017 Sampling Date: 07/11/2017

Reported: 07/18/2017 Sampling Type: Soil

Project Name: HORSE CREEK COM #2 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: NONE GIVEN

Project Location: UL-C SEC.11, T5S, R24E

Sample ID: SPB (16') (H701813-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2017	ND	2.15	108	2.00	1.12	
Toluene*	<0.050	0.050	07/14/2017	ND	2.04	102	2.00	0.920	
Ethylbenzene*	<0.050	0.050	07/14/2017	ND	2.17	109	2.00	1.49	
Total Xylenes*	<0.150	0.150	07/14/2017	ND	6.45	108	6.00	1.48	
Total BTEX	<0.300	0.300	07/14/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	72-148							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/13/2017	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/14/2017	ND	189	94.7	200	3.41	
DRO >C10-C28	<10.0	10.0	07/14/2017	ND	195	97.7	200	17.0	
EXT DRO >C28-C36	<10.0	10.0	07/14/2017	ND					
Surrogate: 1-Chlorooctane	94.2	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	98.5	% 34.7-15	7						

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with Sigh



07/11/2017

Soil

Analytical Results For:

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

Fax To: (505) 394-2601

Received: 07/12/2017 Sampling Date:
Reported: 07/18/2017 Sampling Type:

Project Name: HORSE CREEK COM #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: UL-C SEC.11, T5S, R24E

Sample ID: SPC (8') (H701813-05)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2017	ND	2.15	108	2.00	1.12	
Toluene*	<0.050	0.050	07/15/2017	ND	2.04	102	2.00	0.920	
Ethylbenzene*	<0.050	0.050	07/15/2017	ND	2.17	109	2.00	1.49	
Total Xylenes*	<0.150	0.150	07/15/2017	ND	6.45	108	6.00	1.48	
Total BTEX	<0.300	0.300	07/15/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 72-148	?						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/13/2017	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/14/2017	ND	189	94.7	200	3.41	
DRO >C10-C28	<10.0	10.0	07/14/2017	ND	195	97.7	200	17.0	
EXT DRO >C28-C36	<10.0	10.0	07/14/2017	ND					
Surrogate: 1-Chlorooctane	96.6	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	98.1	% 34.7-15	7						

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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: 07/12/2017 Sampling Date: 07/11/2017

Reported: 07/18/2017 Sampling Type: Soil

Project Name: HORSE CREEK COM #2 Sampling Condition: Cool & Intact Project Number: Sample Received By: Tamara Oldaker NONE GIVEN

Project Location: UL-C SEC.11, T5S, R24E

Sample ID: SPC (16') (H701813-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2017	ND	2.15	108	2.00	1.12	
Toluene*	<0.050	0.050	07/15/2017	ND	2.04	102	2.00	0.920	
Ethylbenzene*	<0.050	0.050	07/15/2017	ND	2.17	109	2.00	1.49	
Total Xylenes*	<0.150	0.150	07/15/2017	ND	6.45	108	6.00	1.48	
Total BTEX	<0.300	0.300	07/15/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/13/2017	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/14/2017	ND	189	94.7	200	3.41	
DRO >C10-C28	<10.0	10.0	07/14/2017	ND	195	97.7	200	17.0	
EXT DRO >C28-C36	<10.0	10.0	07/14/2017	ND					
Surrogate: 1-Chlorooctane	90.8	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	92.9	% 34.7-15	7						

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Sample Received By:

07/11/2017

Tamara Oldaker

Analytical Results For:

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

Fax To: (505) 394-2601

Received: 07/12/2017 Sampling Date:

Reported: 07/18/2017 Sampling Type: Soil
Project Name: HORSE CREEK COM #2 Sampling Condition: Cool & Intact

Project Number: NONE GIVEN

Project Location: UL-C SEC.11, T5S, R24E

Sample ID: SPD (SURFACE) (H701813-07)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2017	ND	2.15	108	2.00	1.12	
Toluene*	<0.050	0.050	07/15/2017	ND	2.04	102	2.00	0.920	
Ethylbenzene*	<0.050	0.050	07/15/2017	ND	2.17	109	2.00	1.49	
Total Xylenes*	<0.150	0.150	07/15/2017	ND	6.45	108	6.00	1.48	
Total BTEX	<0.300	0.300	07/15/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 72-148	}						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/13/2017	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/14/2017	ND	189	94.7	200	3.41	
DRO >C10-C28	<10.0	10.0	07/14/2017	ND	195	97.7	200	17.0	
EXT DRO >C28-C36	<10.0	10.0	07/14/2017	ND					
Surrogate: 1-Chlorooctane	94.8	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	97.8	% 34.7-15	7						

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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: 07/12/2017 Reported: 07/18/2017

Project Name: HORSE CREEK COM #2

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Project Number: NONE GIVEN

Project Location: UL-C SEC.11, T5S, R24E

Sampling Date: 07/11/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SPD (3') (H701813-08)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2017	ND	2.15	108	2.00	1.12	
Toluene*	<0.050	0.050	07/15/2017	ND	2.04	102	2.00	0.920	
Ethylbenzene*	<0.050	0.050	07/15/2017	ND	2.17	109	2.00	1.49	
Total Xylenes*	<0.150	0.150	07/15/2017	ND	6.45	108	6.00	1.48	
Total BTEX	<0.300	0.300	07/15/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 72-148	?						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/13/2017	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/14/2017	ND	189	94.7	200	3.41	
DRO >C10-C28	<10.0	10.0	07/14/2017	ND	195	97.7	200	17.0	
EXT DRO >C28-C36	<10.0	10.0	07/14/2017	ND					
Surrogate: 1-Chlorooctane	104	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	104	% 34.7-15	7						

Applyzod By: MC

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Mile Sough



07/11/2017

Soil

Analytical Results For:

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

Fax To: (505) 394-2601

Received: 07/12/2017 Sampling Date:
Reported: 07/18/2017 Sampling Type:

Project Name: HORSE CREEK COM #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: UL-C SEC.11, T5S, R24E

Sample ID: SPE (SURFACE) (H701813-09)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2017	ND	2.15	108	2.00	1.12	
Toluene*	<0.050	0.050	07/15/2017	ND	2.04	102	2.00	0.920	
Ethylbenzene*	< 0.050	0.050	07/15/2017	ND	2.17	109	2.00	1.49	
Total Xylenes*	<0.150	0.150	07/15/2017	ND	6.45	108	6.00	1.48	
Total BTEX	<0.300	0.300	07/15/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 72-148	}						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/13/2017	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/14/2017	ND	189	94.7	200	3.41	
DRO >C10-C28	<10.0	10.0	07/14/2017	ND	195	97.7	200	17.0	
EXT DRO >C28-C36	<10.0	10.0	07/14/2017	ND					
Surrogate: 1-Chlorooctane	91.2	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	93.4	% 34.7-15	7						

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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: 07/12/2017 Sampling Date: 07/11/2017

Reported: 07/18/2017 Sampling Type: Soil

Project Name: HORSE CREEK COM #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: UL-C SEC.11, T5S, R24E

Sample ID: SPE (3') (H701813-10)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2017	ND	2.15	108	2.00	1.12	
Toluene*	<0.050	0.050	07/15/2017	ND	2.04	102	2.00	0.920	
Ethylbenzene*	< 0.050	0.050	07/15/2017	ND	2.17	109	2.00	1.49	
Total Xylenes*	<0.150	0.150	07/15/2017	ND	6.45	108	6.00	1.48	
Total BTEX	<0.300	0.300	07/15/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 72-148	3						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/13/2017	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/14/2017	ND	189	94.7	200	3.41	
DRO >C10-C28	<10.0	10.0	07/14/2017	ND	195	97.7	200	17.0	
EXT DRO >C28-C36	<10.0	10.0	07/14/2017	ND					
Surrogate: 1-Chlorooctane	88.2	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	89.8	% 34.7-15	7						

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Me Sough



Analytical Results For:

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

Fax To: (505) 394-2601

Received: 07/12/2017 Reported: 07/18/2017

Project Name: HORSE CREEK COM #2
Project Number: NONE GIVEN

Project Location: UL-C SEC.11, T5S, R24E

Sampling Date: 07/11/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SPF (SURFACE) (H701813-11)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2017	ND	2.15	108	2.00	1.12	
Toluene*	<0.050	0.050	07/15/2017	ND	2.04	102	2.00	0.920	
Ethylbenzene*	< 0.050	0.050	07/15/2017	ND	2.17	109	2.00	1.49	
Total Xylenes*	<0.150	0.150	07/15/2017	ND	6.45	108	6.00	1.48	
Total BTEX	<0.300	0.300	07/15/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 72-148	}						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/13/2017	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/14/2017	ND	189	94.7	200	3.41	
DRO >C10-C28	<10.0	10.0	07/14/2017	ND	195	97.7	200	17.0	
EXT DRO >C28-C36	<10.0	10.0	07/14/2017	ND					
Surrogate: 1-Chlorooctane	89.0	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	89.3	% 34.7-15	7						

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07/11/2017

Analytical Results For:

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

Fax To: (505) 394-2601

Received: 07/12/2017 Sampling Date:

Reported: 07/18/2017 Sampling Type: Soil
Project Name: HORSE CREEK COM #2 Sampling Condition: Cool & Intact

Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: UL-C SEC.11, T5S, R24E

Sample ID: SPF (3') (H701813-12)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2017	ND	2.15	108	2.00	1.12	
Toluene*	<0.050	0.050	07/15/2017	ND	2.04	102	2.00	0.920	
Ethylbenzene*	<0.050	0.050	07/15/2017	ND	2.17	109	2.00	1.49	
Total Xylenes*	<0.150	0.150	07/15/2017	ND	6.45	108	6.00	1.48	
Total BTEX	<0.300	0.300	07/15/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 72-148							
Chloride, SM4500Cl-B	mg	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/13/2017	ND	416	104	400	3.77	
TPH 8015M	mg	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/14/2017	ND	189	94.7	200	3.41	
DRO >C10-C28	<10.0 10.0		07/14/2017	ND	195	97.7	200	17.0	
EXT DRO >C28-C36	<10.0	10.0	07/14/2017	ND					
Surrogate: 1-Chlorooctane	89.1	% 28.3-164	4						
Surrogate: 1-Chlorooctadecane	90.7	% 34.7-157	7						

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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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Environmental Plus, Inc.

Page 1 of 2

Page 15 of 16

Cardinal

Chain of Custody Form

Environmental Plus, Inc.

Delivered by:	Relinquished by:	Sampler Relinquished:		20	19	18	17	16	15	14	13	12 8	11 8		LAB I.D.	-	EPI Sampler Name	Project Reference	Location	Facility Name	Client Company	EPI Phone#/Fax#	City, State, Zip	Mailing Address	EPI Project Manager	Company Name	(575) 394-3481 FA	2100 Avenue O, Eunice, NM 88231
Sam	Time 6:00 am Date 7 (14/7) Time 3:1/0 1	Date 7-12-17										SPF (3')	SPF (Surface)		SAMPLE I.D.		Bavid Robinson		UL- C Sec. 11, T5S, R24E	Horse Creek Com #2	Vanguard	575-394-3481 / 575-394-2601	Eunice New Mexico	P.O. BOX 1558	er Daniel Dominguez	Environmental Plus,	FAX: (575) 394-2601	ınice, NM 88231
Sample Cool & Intact Yes No				-	\vdash	+	+	t	H	t	t	G	G	10	G)RAB OR (C)OMP				R24	~		94-	88231			Inc	1	P.C
00l &	Received By:	Received		H	\vdash	+	+	+	t	t	t	1	1_	+	CONTAINERS				m		١	260	31		١	1"	1	P.O. Box 1558, Eunice, NM 88231
ntact No	200	3	,	H	+	+	+	+	+	†	†	t	t	1	ROUND WATER					١	١	-				1	1	0X 1
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Page 16 of 16

Attachment IV 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

						OPER	ATOR		Initi	ial Report	Х	Final Report		
Name of Cor	mpany: V	anguard Ope	rating, L	LC		Contact : Chuck Johnston								
Address: 400					,	Telephone No. 432-202-4771								
Facility Nam	ne: Horse	Creek Com #	4 002	***************************************		Facility Typ	e: Well Site							
2 6 0				Mineral O					ADING	20.005.613	225			
Surface Own	ier			Milleral O	wher				APINO	. 30-005-613	333			
					$\overline{}$	OF REI								
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the		est Line	County				
E	11	05 S	24E	1930		North	660	West		Chaves				
<u> </u>		Latitu	de_33.88	88512		Longitude	104.3996964							
				NAT	URE	OF RELI	EASE							
Type of Relea	se: Produc	ed Water				Volume of	Release: Unknow	vn		ecovered:				
Source of Rel	ease: Welli	nead area				Date and H	our of Occurrence	е		Hour of Disco		12-20-2016		
Was Immedia	te Notice (Given?				If YES, To	Whom?		11.17 d.iii	. by note map	700101			
			Yes X	No 🔲 Not Req	uired									
By Whom?						Date and H								
Was a Watero	ourse Read	hed?	Yes 🗵	l No		If YES, Vo	lume Impacting t	he Wate	rcourse.					
YO XY														
If a Watercou	rse was im	pacted, Descri	ibe Fully.	•								İ		
Describe Caus	se of Probl	em and Reme	dial Actio	Taken. Appears t	to be co	orrosion on we	ellhead and casing	g valve l	eak.					
	100 . 1	1.01												
vertically. A	a Affected : 20 – millin	and Cleanup A neter poly-eth	Action Tai ylene line	en. A small area a was installed at the	round t ne botto	the wellhead vom of the 7 fo	vas excavated inc ot excavated depti	luding a h to just	in additional below surf	al I foot horiz	ontally avatio	y and 4 ft. n was		
backfilled and	l contoured	to blend with	existing p	oad area.			•	v						
I hereby certif	fy that the i	nformation gi	ven above	is true and comple	ete to th	ne best of my	knowledge and ur	nderstan	d that purs	uant to NMO	CD ru	les and		
regulations all	l operators	are required to	o report ar	d/or file certain re	lease n	otifications ar	d perform correct	tive acti	ons for rele	ases which m	nay en	danger		
should their o	or the envi	ronment. Ine	acceptano	e of a C-141 report investigate and re	rt by the	e NMOCD ma	arked as "Final Re	eport" de	oes not reli	eve the opera	tor of	liability		
or the environ	ment. In a	ddition. NMC	CD accer	tance of a C-141 r	enort de	oes not reliev	on man pose a mire the operator of r	esnonsi	bility for co	, surface wait	r, nun	other		
federal, state,					ороги	000 1101 10110 1	o the operator of t	Соронов	onity for co	mphanee wit	ii aily	other		
001111							OIL CONSERVATION DIVISION							
Signature:														
							Approved by Environmental Specialist:							
Printed Name: Chuck Johnston							Approved by Environmental Specialist: Juttam Hall							
Title: EHS / C	perations	Specialist				Approval Date: 10/25/2022 Expiration				Date: Not applicable				
E-mail Addre	ss: cjohnsto	on@vnrenergy	v.com			Conditions of Approval:				Attached				
Date: 1-3-20	18			Phone:432-202-47	71					<u></u>				

Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 9814

CONDITIONS

Operator:	OGRID:
Grizzly Operating, LLC	258350
5847 San Felipe, Suite 3000	Action Number:
Houston, TX 77057	9814
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bhall	In future reports include the current C-141 form regardless of when the release occurred.	10/25/2022
bhall	In future reports please include a scaled site and sampling diagram. Sampling points need to be illustrated and labeled on the diagram.	10/25/2022