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R5NWP-190719-C-1410

REMEDIATION SUMMARY & SITE CLOSURE REQUEST

**Goodnight Midstream Permian, LLC
SERRANO
Lea County, New Mexico
Unit Letter "C", Section 28, Township 23 South, Range 35 East
Latitude 32.280010° North, Longitude 103.373311° West
NMOCD Reference #1RP-5451**

Prepared For:

Goodnight Midstream Permian, LLC
5910 N Central Expy
Dallas, TX 75206

Prepared By:

Etech Environmental & Safety Solutions, Inc.
3100 Plains Highway
Lovington, New Mexico 88260

July 2019

Daniel Dominguez
Project Manager



The following Remediation Summary & Closure Request serves as a condensed update on field activities undertaken at the afore referenced Site.

BACKGROUND

The release site is located in Unit Letter C (NE ¼ of NW ¼), Section 28, Township 23 South, Range 35 East, approximately 17 miles south-west of Eunice, in Lea County, New Mexico. The property is privately owned.

The release site is located on an active battery; latitude 32.280010 North, longitude 103.373311 West. Site Location Map, Depth to Groundwater Map, and Release Area Map are included as Figure 1, Figure 2, and Figure 3, respectively. The initial NMOCD Form C-141 indicates that on April 16, 2019, Goodnight discovered a release of an estimated 100 barrels (bbls) of produced water when a flange seal failed. Approximately 70 bbls of the product was recovered. The release initially impacted an estimated 9,972 square feet (ft²) of pad. The NMOCD was notified of the release on April 17, 2019. The initial NMOCD Form C-141 is included as Attachment IV.

NMOCD SITE CLASSIFICATION

A search for water wells was completed utilizing the New Mexico Office of the State Engineer (NMOSE) and the United States Geologic Survey (USGS) websites. Three USGS wells are located in the area surrounding the release site. 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 Chevron Trend Map (2005) was also utilized and indicates average water depth in the area is approximately 250 feet below ground surface (bgs).

Utilizing this information, the NMOCD guidelines indicate the Serrano release site to have an initial ranking score of ten. Based on this score, the NMOCD soil remediation levels for vertical delineation on this Site were determined as follows:

- Benzene – 10 mg/kg
- Benzene, ethylbenzene, toluene, and xylenes (BTEX) – 50 mg/kg
- Gasoline Range Organics + Diesel Range Organics (GRO + DRO) – 1,000 mg/kg
- Total petroleum hydrocarbons (TPH) – 2,500 mg/kg
- Chloride – 20,000 mg/kg

DELINEATION ACTIVITIES

On April 18, 2019, Etech began remediation activities. The entire release area was excavated to approximately one-foot bgs with contaminated soil hauled to a state approved facility for disposal.

Final samples for the location began to be retrieved on April 26th, 2019, at a depth of approximately one-foot bgs. Laboratory results confirm that delineation was achieved (reference Figure 3 and Table 1). Laboratory analytical reports are provided as Attachment III. The excavation was then backfilled with imported, non-impacted soils, compacted and contoured to the surrounding pad area.

QA/QC PROCEDURES

Discrete soil samples were delivered to Cardinal Laboratories in Hobbs, New Mexico, for BTEX, TPH, and chloride analysis. EPA Methods 8021B, SW-846 8015M, and 4500 Cl-B were utilized to determine BTEX, TPH, and Chloride concentrations, respectively. Cleaning of the sampling equipment was the responsibility of the environmental technician. Prior to use, and between each sample, the sampling equipment was cleaned and rinsed with distilled water. The laboratory was responsible for proper QA/QC procedures after signing the chain-of-custody. These procedures were either transmitted with the laboratory reports or are on file at the laboratory.

SITE CLOSURE REQUEST

Soil samples collected from the Serrano site were analyzed by an NMOCD approved laboratory, and concentrations of benzene, BTEX, TPH, and chloride were below the regulatory remediation action levels established for the site by the NMOCD.

Etech Environmental recommends Goodnight Midstream Permian, LLC provide the NMOCD Hobbs District Office or representative a copy of this *Remediation Summary & Site Closure Request* and request the NMOCD grant site closure to the Serrano release site.

LIMITATIONS

Etech Environmental & Safety Solutions, Inc. has prepared this *Remediation Summary & Site Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Etech Environmental has not conducted an independent examination of the facts contained in referenced materials and statements. Etech Environmental has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Etech Environmental has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech 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.

This report has been prepared for the benefit of Goodnight Midstream Permian, LLC. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of Etech Environmental & Safety Solutions, Inc. and/or Goodnight Midstream Permian, LLC.

Should you have any questions or concerns please feel free to contact me at (432) 813-1592 or via email at danield@etechenv.com or Mr. Ralph Tijerina at (214) 587-4964 or via email at rtijerina@goodnightmidstream.com. All official communication should be addressed to:

Mr. Ralph Tijerina
Goodnight Midstream Permian, LLC
5910 N Central Expy
Dallas, TX 75206

Sincerely,

Etech Environmental & Safety Solutions, Inc.



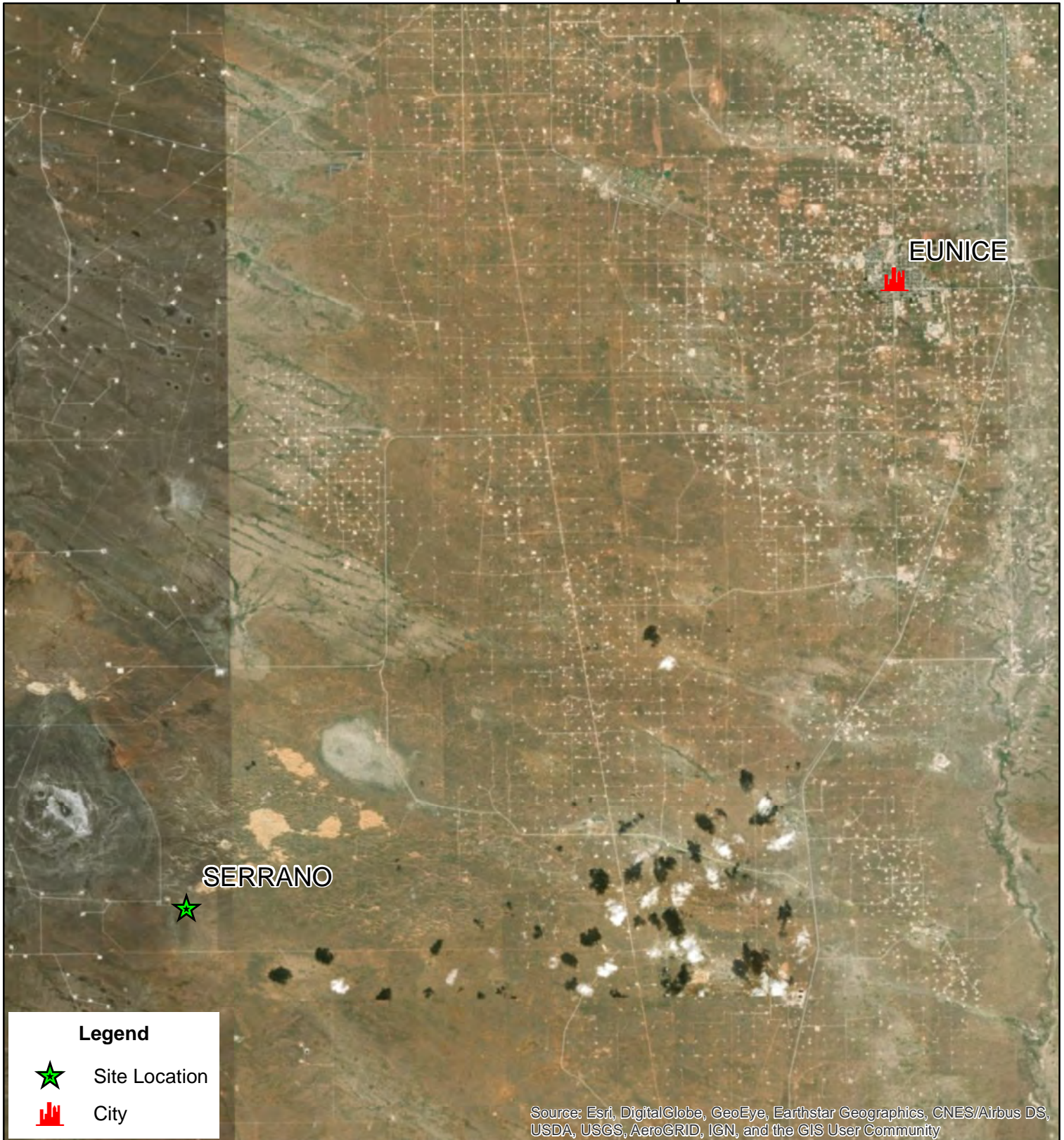
Daniel Dominguez
Project Manager

cc: Rick Rickman, NMOCD, Hobbs, NM
File

Encl.: Figure 1 – Site Location Map
Figure 2 – Depth to Groundwater Map
Figure 3 – Release Area Map
Table 1 – Concentrations of Benzene, BTEX, TPH, & Chloride in Soil
Attachment I – Photographs
Attachment II – NMOSE Average Depth to Water, USGS Water Well Search Results
Attachment III – Laboratory Analytical Results
Attachment IV – NMOCD Form C-141

FIGURES

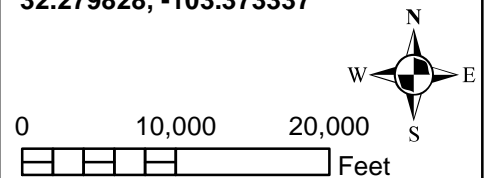
Site Location Map



GOODNIGHT MIDSTREAM SERRANO

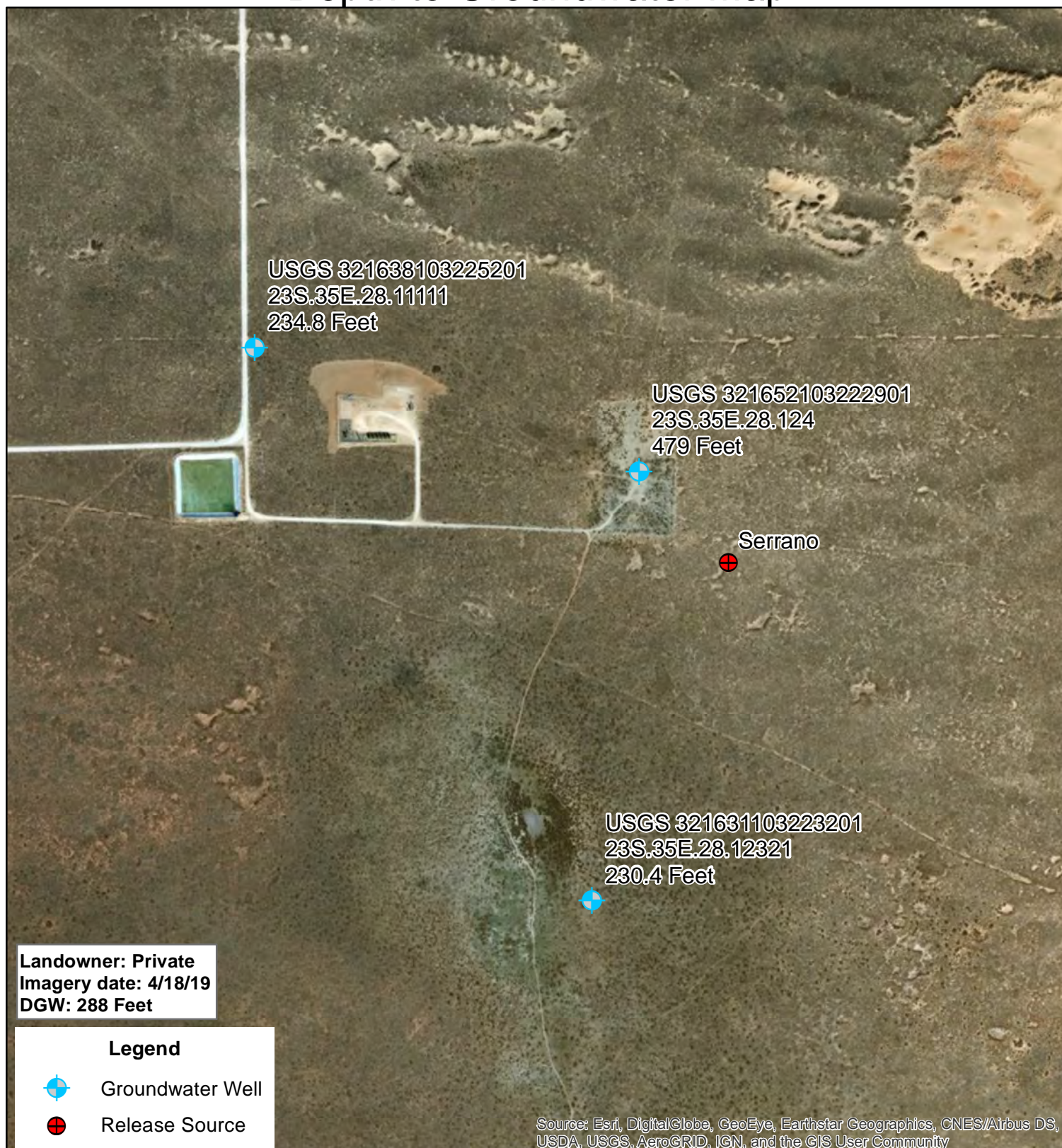
**UL N SECTION 19
T-23-S R-35-E
LEA COUNTY, NM**

**GPS RELEASE SOURCE (NAD 83):
32.279828, -103.373337**



Drawing date: 6/4/19
Drafted by: M. Grieco

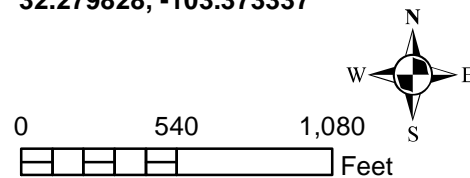
Depth to Groundwater Map



GOODNIGHT MIDSTREAM SERRANO

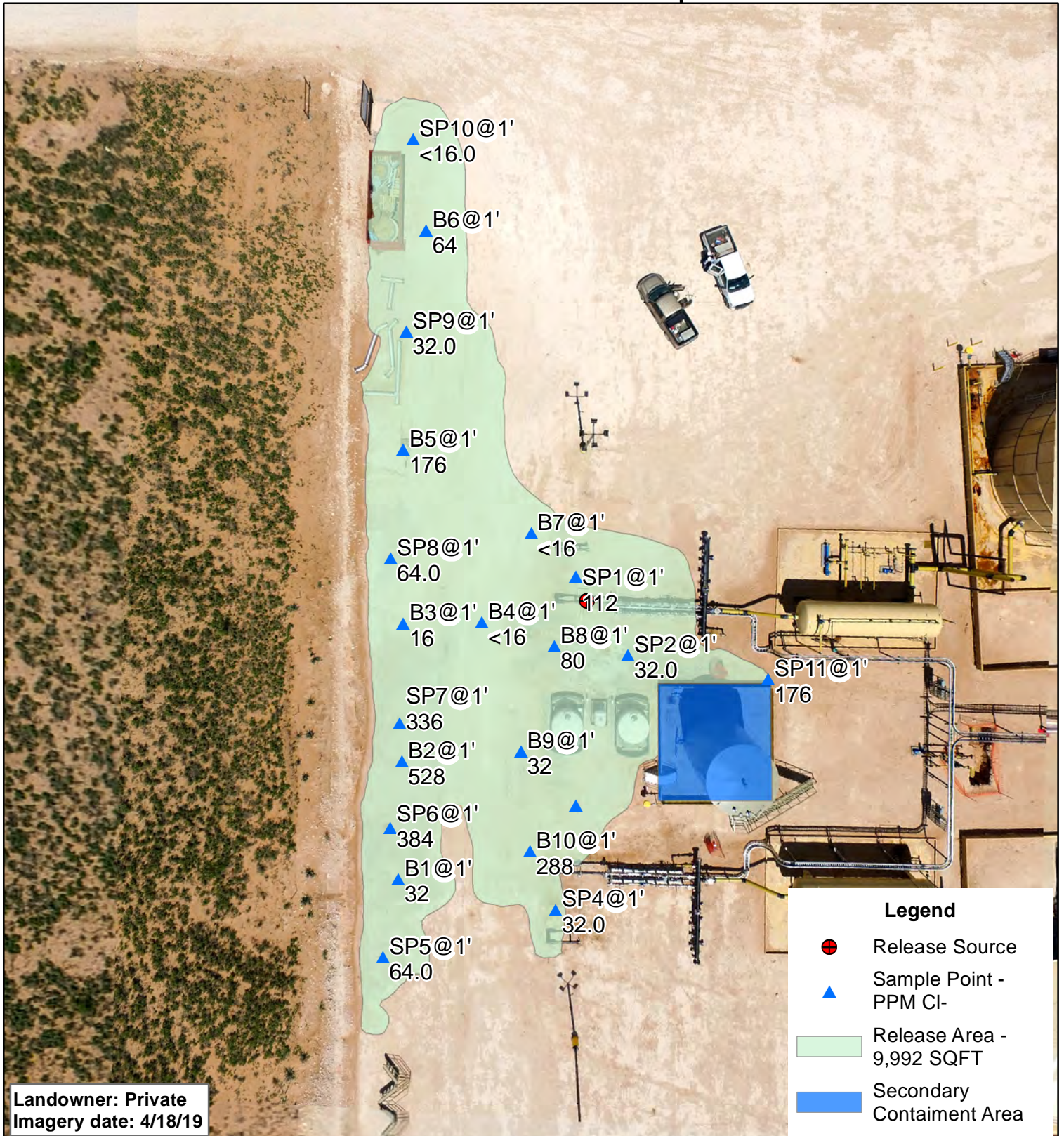
UL N SECTION 19
T-23-S R-35-E
LEA COUNTY, NM

GPS RELEASE SOURCE (NAD 83):
32.279828, -103.373337



Drawing date: 5/31/19
Drafted by: M. Grieco

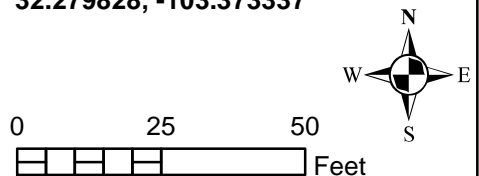
Release Area Map



GOODNIGHT MIDSTREAM SERRANO

UL N SECTION 19
T-23-S R-35-E
LEA COUNTY, NM

GPS RELEASE SOURCE (NAD 83):
32.279828, -103.373337



Drawing date: 5/1/19
Drafted by: M. Grieco
Edited by: M. Grieco 7/18/19

TABLES

TABLE 1
CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL
GOODNIGHT MIDSTREAM PERMIAN, LLC.
SERRANO

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	FIELD CHLORIDE (mg/Kg)	METHOD: EPA SW 846-8021B, 5030					METHOD: 8015M			TPH C ₆ -C ₃₅ (mg/Kg)	4500 CI-B CHLORIDE (mg/Kg)
					BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C ₆ -C ₁₀ (mg/Kg)	DRO C ₁₀ -C ₂₈ (mg/Kg)	ORO C ₂₈ -C ₃₅ (mg/Kg)		
SP 1	Surface	18-Apr-19	Excavated	26,952	--	--	--	--	--	--	--	--	--	--
SP 1 @ 1'	1'	23-Apr-19	In-Situ	124	--	--	--	--	--	--	--	--	--	112
SP 2	Surface	18-Apr-19	Excavated	>26,952	--	--	--	--	--	--	--	--	--	--
SP 2 @ 1'	1'	23-Apr-19	In-Situ	<124	--	--	--	--	--	--	--	--	--	32.0
SP 3	Surface	18-Apr-19	Excavated	26,952	--	--	--	--	--	--	--	--	--	--
SP 3 @ 1'	1'	23-Apr-19	In-Situ	<124	--	--	--	--	--	--	--	--	--	32.0
SP 4	Surface	18-Apr-19	Excavated	>26,952	--	--	--	--	--	--	--	--	--	--
SP 4 @ 1'	1'	23-Apr-19	In-Situ	<124	--	--	--	--	--	--	--	--	--	32.0
SP 5	Surface	18-Apr-19	Excavated	312	--	--	--	--	--	--	--	--	--	--
SP 5 @ 1'	1'	23-Apr-19	In-Situ	<124	--	--	--	--	--	--	--	--	--	64.0
SP 6	Surface	18-Apr-19	Excavated	26,952	--	--	--	--	--	--	--	--	--	--
SP 6 @ 1'	1'	23-Apr-19	In-Situ	312	--	--	--	--	--	--	--	--	--	384
SP 7	Surface	18-Apr-19	Excavated	15,224	--	--	--	--	--	--	--	--	--	--
SP 7 @ 1'	1'	23-Apr-19	In-Situ	348	--	--	--	--	--	--	--	--	--	336
SP 8	Surface	18-Apr-19	Excavated	12,692	--	--	--	--	--	--	--	--	--	--
SP 8 @ 1'	1'	23-Apr-19	In-Situ	<124	--	--	--	--	--	--	--	--	--	64.0
SP 9	Surface	18-Apr-19	Excavated	11,636	--	--	--	--	--	--	--	--	--	--
SP 9 @ 1'	1'	23-Apr-19	In-Situ	<124	--	--	--	--	--	--	--	--	--	32.0
SP 10	Surface	18-Apr-19	Excavated	15,224	--	--	--	--	--	--	--	--	--	--
SP 10 @ 1'	1'	23-Apr-19	In-Situ	<124	--	--	--	--	--	--	--	--	--	<16.0
SP 11	Surface	18-Apr-19	Excavated	11,636	--	--	--	--	--	--	--	--	--	--
SP 11 @ 1'	1'	23-Apr-19	In-Situ	200	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	176
B 1	1'	29-Apr-19	In-Situ	--	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	32
B 2	1'	29-Apr-19	In-Situ	--	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	528
B 3	1'	29-Apr-19	In-Situ	--	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	16
B 4	1'	29-Apr-19	In-Situ	--	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	<16.0
B 5	1'	29-Apr-19	In-Situ	--	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	176
B 6	1'	29-Apr-19	In-Situ	--	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	64.0
B 7	1'	29-Apr-19	In-Situ	--	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	<16.0
B 8	1'	29-Apr-19	In-Situ	--	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	80.0
B 9	1'	29-Apr-19	In-Situ	--	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	32
B 10	1'	29-Apr-19	In-Situ	--	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	288
NMOC Regulatory Standard					10				50				2,500	10,000

-- = Not analyzed.

ATTACHMENTS

ATTACHMENT I
Photographs

Goodnight Midstream – Serrano

Unit Letter N of Section 19, T23S, R35E



Release area, facing west

4/18/19



Release area, facing southwest

4/18/19



Excavation, facing south

4/24/19



Excavation, facing southwest

4/25/19

Goodnight Midstream – Serrano

Unit Letter N of Section 19, T23S, R35E



Excavation, facing southwest

4/25/19



Backfilling, facing north

5/2/19



Backfilled, facing south

5/8/19



Backfilled, facing north

5/8/19

ATTACHMENT II
NMOSE Average Depth to Water
USGS Water Well Search Results



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

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 653189.59

Northing (Y): 3572635

Radius: 2000



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[USGS Water Resources](#)

Data Category:


Groundwater

Geographic Area:

New Mexico

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Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 321652103222901

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 321652103222901 23S.35E.28.124

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°16'51.8", Longitude 103°22'29.1" NAD83

Land-surface elevation 3,388 feet above NAVD88

The depth of the well is 5,300 feet below land surface.

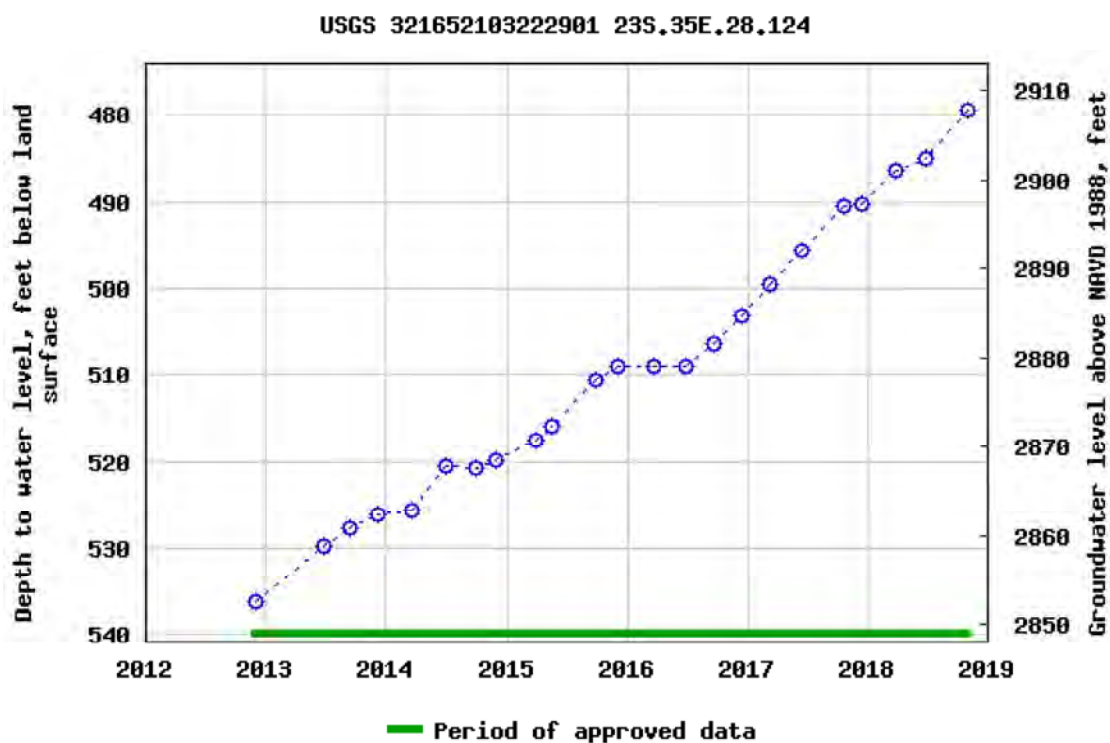
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Title: Groundwater for New Mexico: Water Levels

URL: [https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?](https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?site_no=321652103222901&agency_c...)



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Available data for this site

Groundwater: Field measurements ▼

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Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°16'58", Longitude 103°22'51" NAD27

Land-surface elevation 3,370.00 feet above NGVD29

The depth of the well is 795 feet below land surface.

This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

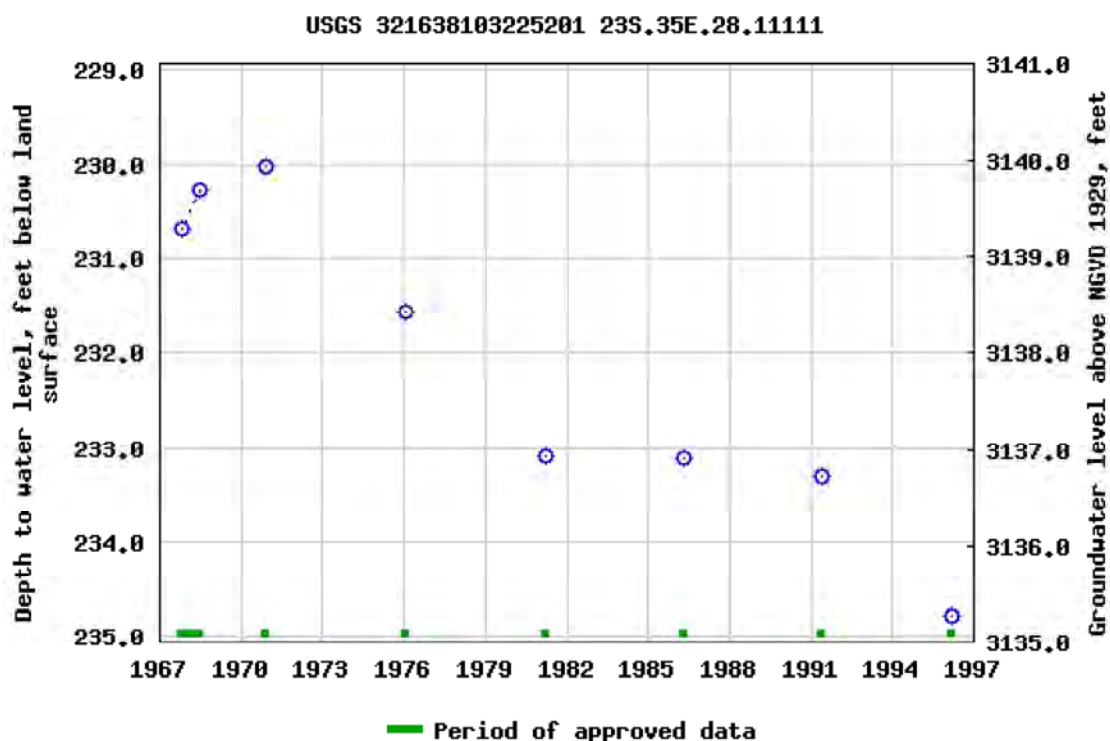
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Title: Groundwater for New Mexico: Water Levels

URL: [https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?](https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?site_no=321638103225201&agency_c...)



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USGS 321631103223201 23S.35E.28.12321

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°16'31", Longitude 103°22'32" NAD27

Land-surface elevation 3,369 feet above NAVD88

The depth of the well is 242 feet below land surface.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

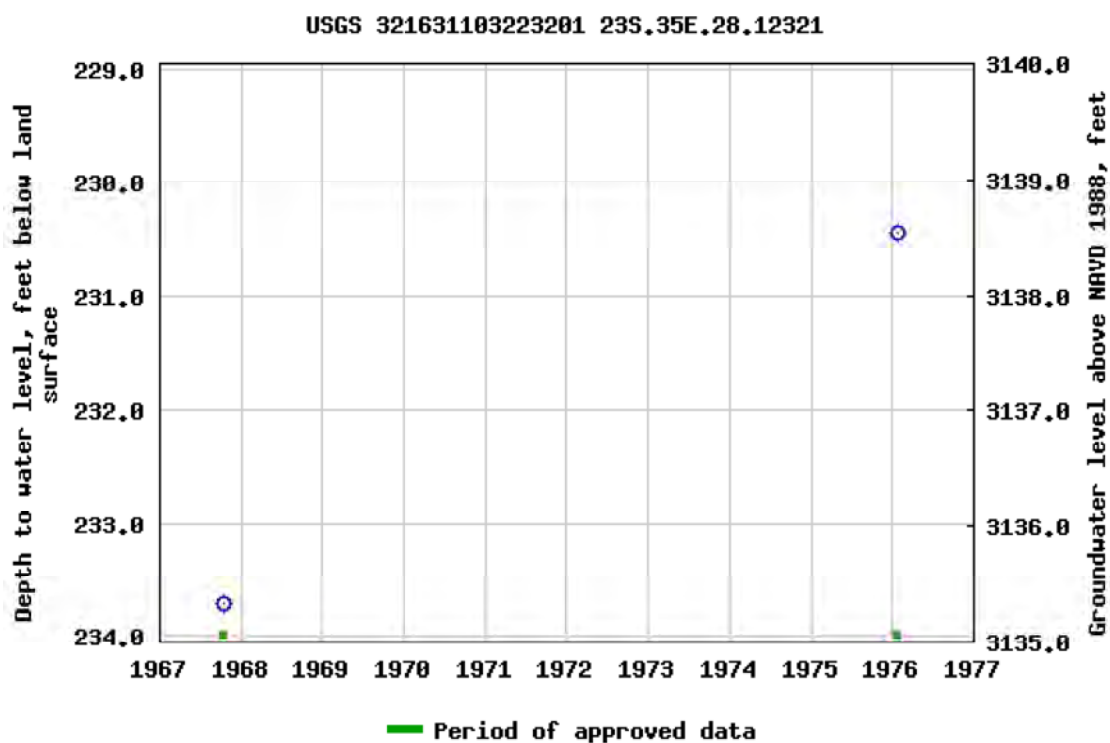
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ATTACHMENT III
Laboratory Analytical Results

April 30, 2019

DANIEL DOMINGUEZ

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: SERRANO

Enclosed are the results of analyses for samples received by the laboratory on 04/24/19 14:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

Etech Environmental & Safety Solutions
DANIEL DOMINGUEZ
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received:	04/24/2019	Sampling Date:	04/23/2019
Reported:	04/30/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: SP 1 @ 1' (H901479-01)

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	04/30/2019	ND	400	100	400	0.00	

Sample ID: SP 2 @ 1' (H901479-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/30/2019	ND	400	100	400	0.00	

Sample ID: SP 3 @ 1' (H901479-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/30/2019	ND	400	100	400	0.00	

Sample ID: SP 4 @ 1' (H901479-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/30/2019	ND	400	100	400	0.00	

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:

Etech Environmental & Safety Solutions
DANIEL DOMINGUEZ
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received:	04/24/2019	Sampling Date:	04/23/2019
Reported:	04/30/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: SP 5 @ 1' (H901479-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/30/2019	ND	400	100	400	0.00	

Sample ID: SP 6 @ 1' (H901479-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	04/30/2019	ND	400	100	400	0.00	

Sample ID: SP 7 @ 1' (H901479-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	04/30/2019	ND	400	100	400	0.00		

Sample ID: SP 8 @ 1' (H901479-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/30/2019	ND	400	100	400	0.00	

Sample ID: SP 9 @ 1' (H901479-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/30/2019	ND	400	100	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Etech Environmental & Safety Solutions
DANIEL DOMINGUEZ
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received:	04/24/2019	Sampling Date:	04/23/2019
Reported:	04/30/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: SP 10 @ 1' (H901479-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/30/2019	ND	400	100	400	0.00		

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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

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

ANALYSIS REQUEST

Lab I.D.	Sample I.D.
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† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

May 03, 2019

DANIEL DOMINGUEZ

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: SERRANO

Enclosed are the results of analyses for samples received by the laboratory on 05/02/19 16:31.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

Etech Environmental & Safety Solutions
DANIEL DOMINGUEZ
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received:	05/02/2019	Sampling Date:	04/26/2019
Reported:	05/03/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: SP 11 @ 1' (H901594-01)

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	05/03/2019	ND	2.21	111	2.00	3.42	
Toluene*	<0.050	0.050	05/03/2019	ND	2.26	113	2.00	3.81	
Ethylbenzene*	<0.050	0.050	05/03/2019	ND	2.10	105	2.00	1.91	
Total Xylenes*	<0.150	0.150	05/03/2019	ND	6.38	106	6.00	1.98	
Total BTEx	<0.300	0.300	05/03/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/03/2019	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2019	ND	216	108	200	6.27	
DRO >C10-C28*	<10.0	10.0	05/03/2019	ND	203	101	200	5.49	
EXT DRO >C28-C36	<10.0	10.0	05/03/2019	ND					

Surrogate: 1-Chlorooctane 81.8 % 41-142

Surrogate: 1-Chlorooctadecane 78.5 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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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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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

[illegible]



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

April 30, 2019

LANCE CRENSHAW

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: SERRANO

Enclosed are the results of analyses for samples received by the laboratory on 04/29/19 15:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

Etech Environmental & Safety Solutions
LANCE CRENSHAW
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received:	04/29/2019	Sampling Date:	04/29/2019
Reported:	04/30/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	10517	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: B 1 (H901520-01)

BTX 8021B			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2019	ND	1.84	92.2	2.00	0.724	
Toluene*	<0.050	0.050	04/29/2019	ND	1.97	98.4	2.00	2.01	
Ethylbenzene*	<0.050	0.050	04/29/2019	ND	1.89	94.6	2.00	2.12	
Total Xylenes*	<0.150	0.150	04/29/2019	ND	5.92	98.6	6.00	1.57	
Total BTX	<0.300	0.300	04/29/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/30/2019	ND	416	104	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2019	ND	215	108	200	0.819	
DRO >C10-C28*	<10.0	10.0	04/29/2019	ND	208	104	200	0.102	
EXT DRO >C28-C36	<10.0	10.0	04/29/2019	ND					

Surrogate: 1-Chlorooctane 112 % 41-142

Surrogate: 1-Chlorooctadecane 118 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Etech Environmental & Safety Solutions
LANCE CRENSHAW
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received:	04/29/2019	Sampling Date:	04/29/2019
Reported:	04/30/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	10517	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: B 2 (H901520-02)

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	04/29/2019	ND	1.84	92.2	2.00	0.724	
Toluene*	<0.050	0.050	04/29/2019	ND	1.97	98.4	2.00	2.01	
Ethylbenzene*	<0.050	0.050	04/29/2019	ND	1.89	94.6	2.00	2.12	
Total Xylenes*	<0.150	0.150	04/29/2019	ND	5.92	98.6	6.00	1.57	
Total BTEX	<0.300	0.300	04/29/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	04/30/2019	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2019	ND	215	108	200	0.819	
DRO >C10-C28*	<10.0	10.0	04/29/2019	ND	208	104	200	0.102	
EXT DRO >C28-C36	<10.0	10.0	04/29/2019	ND					

Surrogate: 1-Chlorooctane 119 % 41-142

Surrogate: 1-Chlorooctadecane 125 % 37.6-147

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Etech Environmental & Safety Solutions
LANCE CRENSHAW
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received:	04/29/2019	Sampling Date:	04/29/2019
Reported:	04/30/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	10517	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: B 3 (H901520-03)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2019	ND	1.84	92.2	2.00	0.724	
Toluene*	<0.050	0.050	04/29/2019	ND	1.97	98.4	2.00	2.01	
Ethylbenzene*	<0.050	0.050	04/29/2019	ND	1.89	94.6	2.00	2.12	
Total Xylenes*	<0.150	0.150	04/29/2019	ND	5.92	98.6	6.00	1.57	
Total BTEX	<0.300	0.300	04/29/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/30/2019	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2019	ND	215	108	200	0.819	
DRO >C10-C28*	<10.0	10.0	04/29/2019	ND	208	104	200	0.102	
EXT DRO >C28-C36	<10.0	10.0	04/29/2019	ND					

Surrogate: 1-Chlorooctane 120 % 41-142

Surrogate: 1-Chlorooctadecane 122 % 37.6-147

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Etech Environmental & Safety Solutions
LANCE CRENSHAW
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received:	04/29/2019	Sampling Date:	04/29/2019
Reported:	04/30/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	10517	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: B 4 (H901520-04)

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	04/29/2019	ND	1.84	92.2	2.00	0.724		
Toluene*	<0.050	0.050	04/29/2019	ND	1.97	98.4	2.00	2.01		
Ethylbenzene*	<0.050	0.050	04/29/2019	ND	1.89	94.6	2.00	2.12		
Total Xylenes*	<0.150	0.150	04/29/2019	ND	5.92	98.6	6.00	1.57		
Total BTEX	<0.300	0.300	04/29/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/30/2019	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2019	ND	215	108	200	0.819	
DRO >C10-C28*	<10.0	10.0	04/29/2019	ND	208	104	200	0.102	
EXT DRO >C28-C36	<10.0	10.0	04/29/2019	ND					

Surrogate: 1-Chlorooctane 115 % 41-142

Surrogate: 1-Chlorooctadecane 119 % 37.6-147

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Etech Environmental & Safety Solutions
LANCE CRENSHAW
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received:	04/29/2019	Sampling Date:	04/29/2019
Reported:	04/30/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	10517	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: B 5 (H901520-05)

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	04/29/2019	ND	1.84	92.2	2.00	0.724	
Toluene*	<0.050	0.050	04/29/2019	ND	1.97	98.4	2.00	2.01	
Ethylbenzene*	<0.050	0.050	04/29/2019	ND	1.89	94.6	2.00	2.12	
Total Xylenes*	<0.150	0.150	04/29/2019	ND	5.92	98.6	6.00	1.57	
Total BTEX	<0.300	0.300	04/29/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	04/30/2019	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2019	ND	215	108	200	0.819	
DRO >C10-C28*	<10.0	10.0	04/29/2019	ND	208	104	200	0.102	
EXT DRO >C28-C36	<10.0	10.0	04/29/2019	ND					

Surrogate: 1-Chlorooctane 113 % 41-142

Surrogate: 1-Chlorooctadecane 116 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Etech Environmental & Safety Solutions
LANCE CRENSHAW
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received:	04/29/2019	Sampling Date:	04/29/2019
Reported:	04/30/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	10517	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: B 6 (H901520-06)

BTEx 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2019	ND	1.87	93.3	2.00	1.88		
Toluene*	<0.050	0.050	04/30/2019	ND	2.00	100	2.00	1.56		
Ethylbenzene*	<0.050	0.050	04/30/2019	ND	1.94	97.1	2.00	2.03		
Total Xylenes*	<0.150	0.150	04/30/2019	ND	5.93	98.8	6.00	2.91		
Total BTEX	<0.300	0.300	04/30/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/30/2019	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2019	ND	206	103	200	11.4	
DRO >C10-C28*	<10.0	10.0	04/30/2019	ND	203	101	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	04/30/2019	ND					

Surrogate: 1-Chlorooctane 115 % 41-142

Surrogate: 1-Chlorooctadecane 120 % 37.6-147

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LANCE CRENSHAW
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received:	04/29/2019	Sampling Date:	04/29/2019
Reported:	04/30/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	10517	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: B 7 (H901520-07)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/30/2019	ND	1.87	93.3	2.00	1.88	
Toluene*	<0.050	0.050	04/30/2019	ND	2.00	100	2.00	1.56	
Ethylbenzene*	<0.050	0.050	04/30/2019	ND	1.94	97.1	2.00	2.03	
Total Xylenes*	<0.150	0.150	04/30/2019	ND	5.93	98.8	6.00	2.91	
Total BTEX	<0.300	0.300	04/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/30/2019	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2019	ND	206	103	200	11.4	
DRO >C10-C28*	<10.0	10.0	04/30/2019	ND	203	101	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	04/30/2019	ND					

Surrogate: 1-Chlorooctane 112 % 41-142

Surrogate: 1-Chlorooctadecane 114 % 37.6-147

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Analytical Results For:

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LANCE CRENSHAW
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received:	04/29/2019	Sampling Date:	04/29/2019
Reported:	04/30/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	10517	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: B 8 (H901520-08)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/30/2019	ND	1.87	93.3	2.00	1.88	
Toluene*	<0.050	0.050	04/30/2019	ND	2.00	100	2.00	1.56	
Ethylbenzene*	<0.050	0.050	04/30/2019	ND	1.94	97.1	2.00	2.03	
Total Xylenes*	<0.150	0.150	04/30/2019	ND	5.93	98.8	6.00	2.91	
Total BTEX	<0.300	0.300	04/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 73.3-129

Chloride, SM4500Cl-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	04/30/2019	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2019	ND	206	103	200	11.4	
DRO >C10-C28*	<10.0	10.0	04/30/2019	ND	203	101	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	04/30/2019	ND					

Surrogate: 1-Chlorooctane 121 % 41-142

Surrogate: 1-Chlorooctadecane 126 % 37.6-147

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Analytical Results For:

Etech Environmental & Safety Solutions
LANCE CRENSHAW
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received:	04/29/2019	Sampling Date:	04/29/2019
Reported:	04/30/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	10517	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: B 9 (H901520-09)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/30/2019	ND	1.87	93.3	2.00	1.88	
Toluene*	<0.050	0.050	04/30/2019	ND	2.00	100	2.00	1.56	
Ethylbenzene*	<0.050	0.050	04/30/2019	ND	1.94	97.1	2.00	2.03	
Total Xylenes*	<0.150	0.150	04/30/2019	ND	5.93	98.8	6.00	2.91	
Total BTEX	<0.300	0.300	04/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/30/2019	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2019	ND	206	103	200	11.4	
DRO >C10-C28*	<10.0	10.0	04/30/2019	ND	203	101	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	04/30/2019	ND					

Surrogate: 1-Chlorooctane 116 % 41-142

Surrogate: 1-Chlorooctadecane 120 % 37.6-147

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Analytical Results For:

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LANCE CRENSHAW
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received:	04/29/2019	Sampling Date:	04/29/2019
Reported:	04/30/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	10517	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: B 10 (H901520-10)

BTEx 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2019	ND	1.87	93.3	2.00	1.88		
Toluene*	<0.050	0.050	04/30/2019	ND	2.00	100	2.00	1.56		
Ethylbenzene*	<0.050	0.050	04/30/2019	ND	1.94	97.1	2.00	2.03		
Total Xylenes*	<0.150	0.150	04/30/2019	ND	5.93	98.8	6.00	2.91		
Total BTEX	<0.300	0.300	04/30/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	04/30/2019	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2019	ND	206	103	200	11.4	
DRO >C10-C28*	<10.0	10.0	04/30/2019	ND	203	101	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	04/30/2019	ND					

Surrogate: 1-Chlorooctane 89.8 % 41-142

Surrogate: 1-Chlorooctadecane 97.5 % 37.6-147

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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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Rush

Company Name: <i>ETECH</i>				BILL TO				ANALYSIS REQUEST			
Project Manager: <i>Lance Linschaw</i>				P.O. #:							
Address:				Company: <i>ETECH</i>							
City:				Attn:							
State:				Address:							
Phone #:				City:							
Fax #:				State:							
Project #: <i>10517</i>				Project Owner:							
Project Name: <i>SRAND</i>				City:							
Project Location:				State:							
Sampler Name: <i>Catalina Villa</i>				Phone #:							
FOR LAB USE ONLY				Fax #:							

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	C1 BTEx +PH
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
<i>H901500</i>	<i>B1</i>	<i>G 1</i>								<i>4-29</i>	<i>9:47</i>	
	<i>B2</i>	<i>G 1</i>								<i>4-29</i>	<i>9:49</i>	
	<i>B3</i>	<i>G 1</i>								<i>4-29</i>	<i>9:52</i>	
	<i>B4</i>	<i>G 1</i>								<i>4-29</i>	<i>9:54</i>	
	<i>B5</i>	<i>G 1</i>								<i>4-29</i>	<i>9:56</i>	
	<i>B6</i>	<i>G 1</i>								<i>4-29</i>	<i>9:59</i>	
	<i>B7</i>	<i>G 1</i>								<i>4-29</i>	<i>10:01</i>	
	<i>B8</i>	<i>G 1</i>								<i>4-29</i>	<i>10:02</i>	
	<i>B9</i>	<i>G 1</i>								<i>4-29</i>	<i>10:06</i>	
	<i>B10</i>	<i>G 1</i>								<i>4-29</i>	<i>10:08</i>	

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Relinquished By:		Date: <i>4-29-19</i>		Received By:	
Time: <i>15:25</i>		Date:		Received By: <i>Jamara</i>	
Relinquished By:		Time:		Received By:	

Delivered By: (Circle One)		Sample Condition		CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		<i>70</i>	

REMARKS:

pm@etechenv.com

lana@etechenv.com

ATTACHMENT IV
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 Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	pDHR1912632153
District RP	1RP-5451
Facility ID	fDHR1912631985
Application ID	NDHR1912632480

Release Notification

Responsible Party

Responsible Party Goodnight Midstream Permian, LLC	OGRID 372311
Contact Name Chris Calloura	Contact Telephone 432-202-3482
Contact email Chris.calloura@goodnightmidstream.com	Incident # (assigned by OCD)
Contact mailing address 5910 N Central Expy, Dallas, TX 75206	

Location of Release Source

Latitude 32.3712306 Longitude -103.410122
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Serrano	Site Type SWD
Date Release Discovered 4/16/2019	API# (if applicable)30-025-

Unit Letter	Section	Township	Range	County
C	28	23S	35E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: Limestone Livestock)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 100	Volume Recovered (bbls) 70
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release – A flange failed when the pressure was increased on the poly line. The release amount was based on the square footage (approximately 9,992 ft²) of impacted surface area and a proprietary saturation formula. Entire release was contained to the pad.

Incident ID	pDHR1912632153
District RP	1RP-5451
Facility ID	fDHR1912631985
Application ID	NDHR1912632480

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.	
Printed Name: Chris Calloura	Title: HSE Representative
Signature: _____	Date: 04/22/2019
email:Chris.Calloura@goodnightmidstream.com Telephone: 432.202.6629	
<u>OCD Only</u>	
Received by: <u>Dylan Rose-Coss</u>	Date: <u>05/06/2019</u>

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	288 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

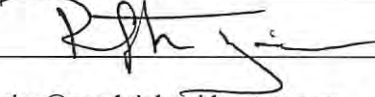
- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.

Printed Name: Ralph TijerinaTitle: Director - EHSSignature: Date: 5/31/19email: rtijerina@goodnightmidstream.comTelephone: 214-587-4964**OCD Only**

Received by: _____

Date: _____

Incident ID	
District RP	
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Application ID	

Remediation Plan

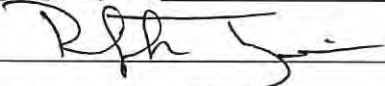
Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☒ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☒ Extents of contamination must be fully delineated.
- ☒ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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Printed Name: Ralph TijerinaTitle: Director - EHSSignature: Date: 5/31/19email: rtijerina@goodnightmidstream.comTelephone: 214-587-4964**OCD Only**

Received by: _____ Date: _____

☐ Approved☐ Approved with Attached Conditions of Approval☐ Denied☐ Deferral Approved

Signature: _____

Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Ralph Tijerina

Title: Director - EHS

Signature: 

Date: 5/31/19

email: rtijerina@goodnightmidstream.com

Telephone: 214-587-4964

OCD Only

Received by: _____

Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____

Title: _____