Site Information

Closure Report

Pauline ALB State #6

Unit J Sec 32 T23S R31E
2RP-161
32.25899°, -103.79718°

Produced Water Release
Source: Produced Water line
Release Date: 4/11/2008
Volume Released: 40 bbls/PW
Volume Recovered: 30 bbls/PW

Prepared for:
EOG Resources
5509 Champions Dr.
Midland, TX 79706

Prepared by:
NTG Environmental
701 Tradewinds Blvd
Suite C
Midland, TX 79707

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APPENDICES

701 Tradewinds Boulevard, Suite C
Midland, Texas 79706
Tel. 432.685.3898
www.ntglobal.com

March 30, 2021

Mr. Bradford Billings
New Mexico Oil Conservation Division
5200 Oakland Ave N.E Suite100
Albuquerque, NM 87113

Re: Closure Report
Pauline ALB State #6 2RP-161
EOG Resources Inc.
Site Location: Unit J, S32, T23S, R31E
(Lat 32.25899º, Long -103.79718º)
Eddy County, New Mexico

To whom it may concern:

On behalf of EOG Resources Inc. (EOG), New Tech Global Environmental, LLC (NTGE) has prepared this letter to document site assessment activities for the Pauline ALB State #6 2RP-161. The Site is located at 32.25899 º, -103.79718º within Unit J, S32, T23S, R31E, and approximately 27.6 miles southeast of Carlsbad, New Mexico, in Eddy County (Figures 1 and 2).

Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the leak was discovered on April 11, 2008. It resulted in the release of approximately 40 barrels of produced water due to a water line rupture. A vac truck was utilized, and 30 barrels of fluids were recovered. The impacted area measured approximately 35' x 35', as shown on Figure 3. The initial C-141 form is attached in Appendix A.

Site Characterization

The Site is located within a low karst area. Based on a review of the New Mexico Office of State Engineer's and USGS databases, there are no known water sources within ½ miles radius of the location. The nearest identified well is located approximately 2.86 miles northeast of the site in S26, T23S, R31E. The well has a reported depth to groundwater of 430 feet below ground surface (ft bgs). A copy of the associated *Point of Diversion Summary* report is attached in Appendix B.

Regulatory Criteria

In accordance with the NMOCD regulatory criteria established in 19.15.29.12 NMAC, the following criteria were utilized in assessing the Site.

- Benzene: 10 milligrams per kilogram (mg/kg).
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg.

- TPH: 100 mg/kg (GRO + DRO + MRO).
- Chloride 600 mg/kg

Site Assessment

On March 10, 2021, NTGE conducted site assessment activities to assess soil impacts resulting from the release. A total of six sample points were advanced to depths ranging 0 – 1.5 ft bgs within and surrounding the release area to assess the vertical and horizontal extent of potential impacts. The soil sample locations are shown on figure 3.

The soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Xenco Laboratories in Midland, Texas, for chemical analysis. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015 modified, benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The laboratory reports containing analytical methods, results, and chain-of-custody documents are attached in Appendix C. The analytical results are provided in Table 1.

All samples are below the NMOCD regulatory criteria for TPH, BTEX, and chloride based on the analytical results.

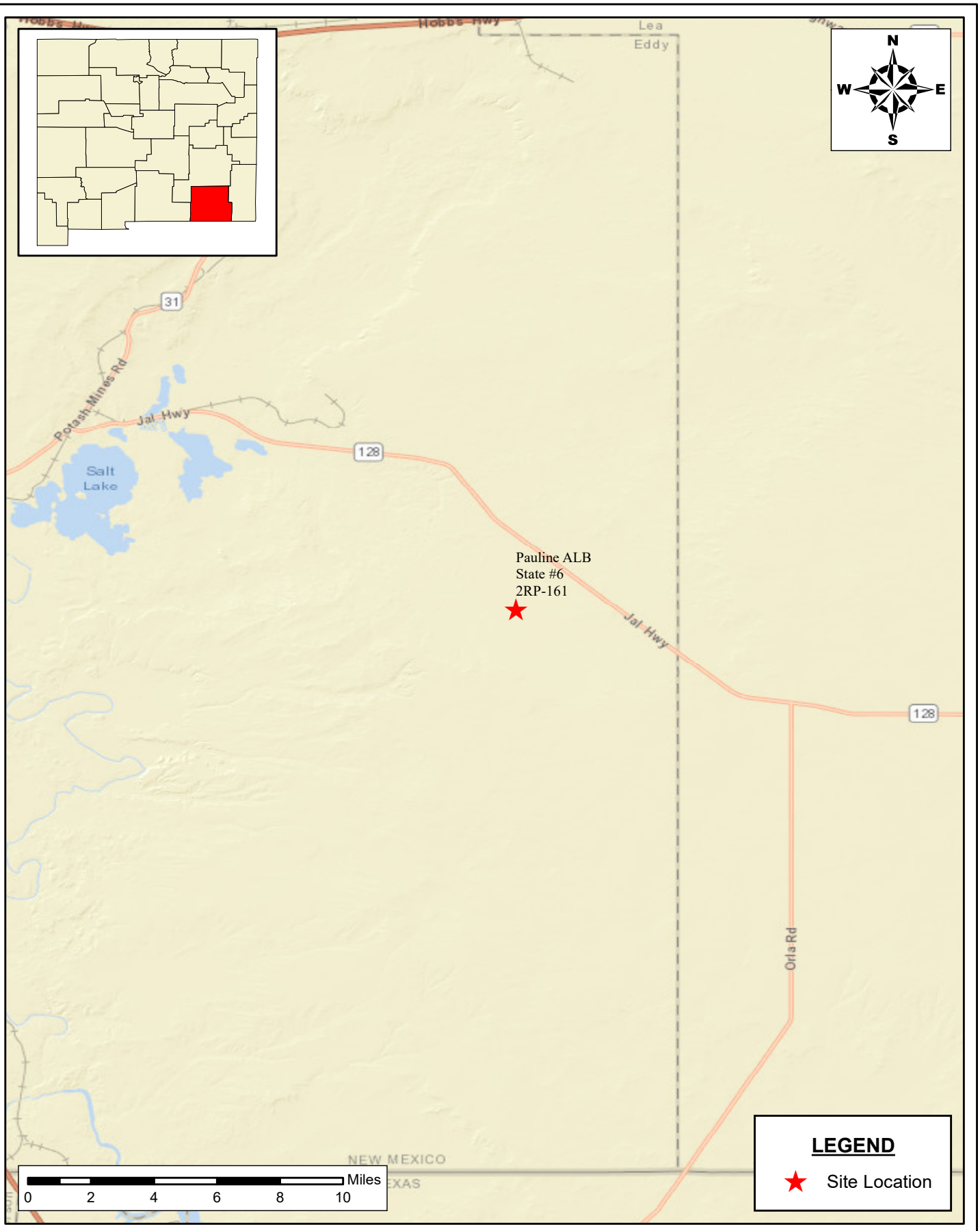
Conclusions

Based on the finding of the assessment and the analytical results, no further actions are required at the Site. The final C-141 is attached, and EOG formally requests closure of the spill. If you have any questions regarding this report or need additional information, please contact us at 432-813-0263.

Sincerely,
NTG Environmental

Mike Carmona
Senior Project Manager

Figures



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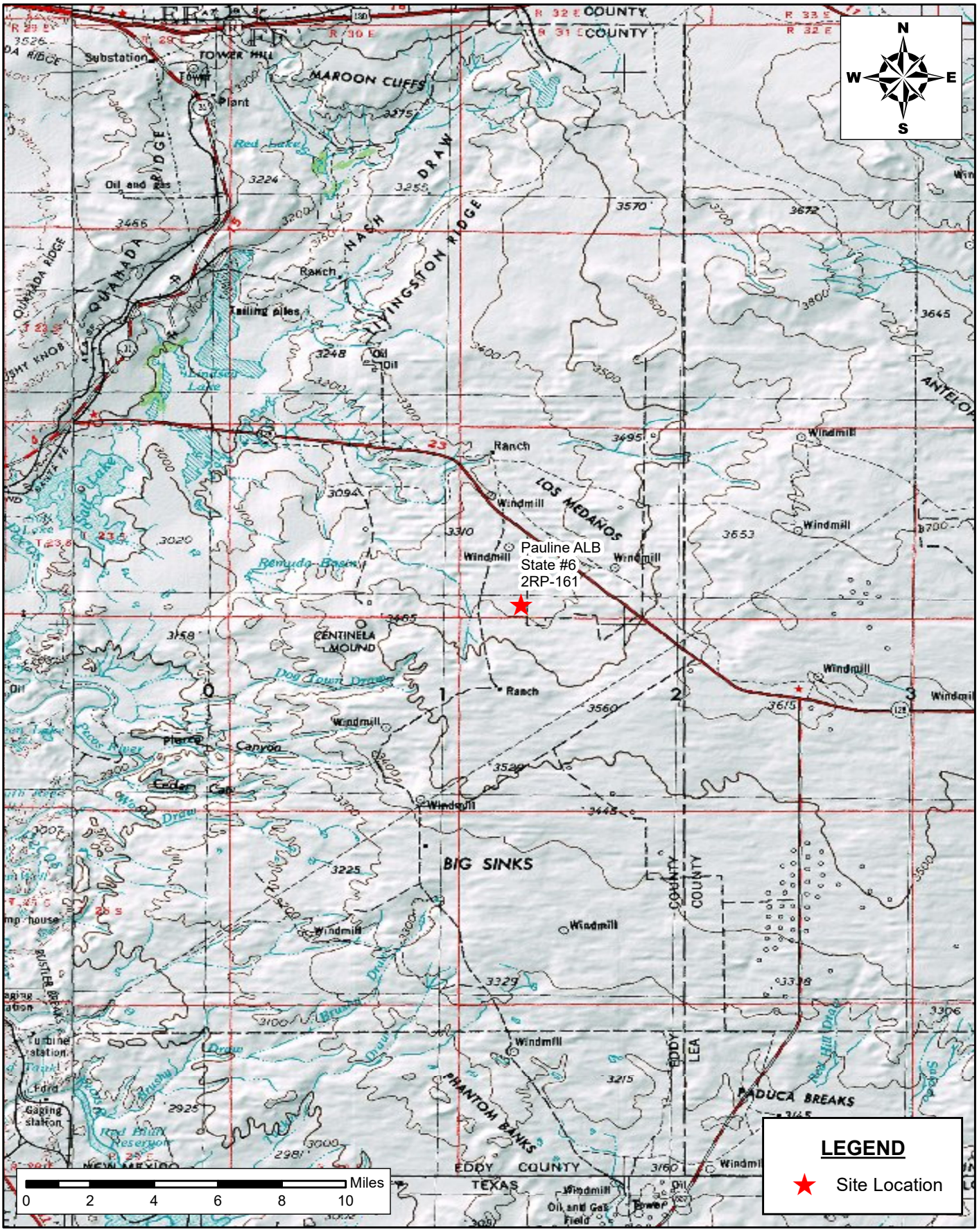
SITE LOCATION MAP
EOG RESOURCES
PAULINE ALB STATE #6 2RP-161
EDDY COUNTY, NM
32.58990, -103.797180

SCALE: As Shown	DATE: 03/18/2015	PROJECT #: 214050

New Tech Global Environmental, LLC
911 Regional Park Drive
Houston, Texas 77060
T - 281.872.9300
F - 281.872.4521
Web: www.ntglobal.com

NOTES:
1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:
FIGURE 1
SHEET NUMBER:
1 of 1



AREA MAP
EOG RESOURCES
PAULINE ALB STATE #6 2RP-161
EDDY COUNTY, NM
32.58990, -103.797180

SCALE: As Shown	DATE: 03/18/2015	PROJECT #: 214050

New Tech Global Environmental, LLC
911 Regional Park Drive
Houston, Texas 77060
T - 281.872.9300
F - 281.872.4521
Web: www.ntglobal.com

NOTES:
1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:
FIGURE 2
SHEET NUMBER:
1 of 1

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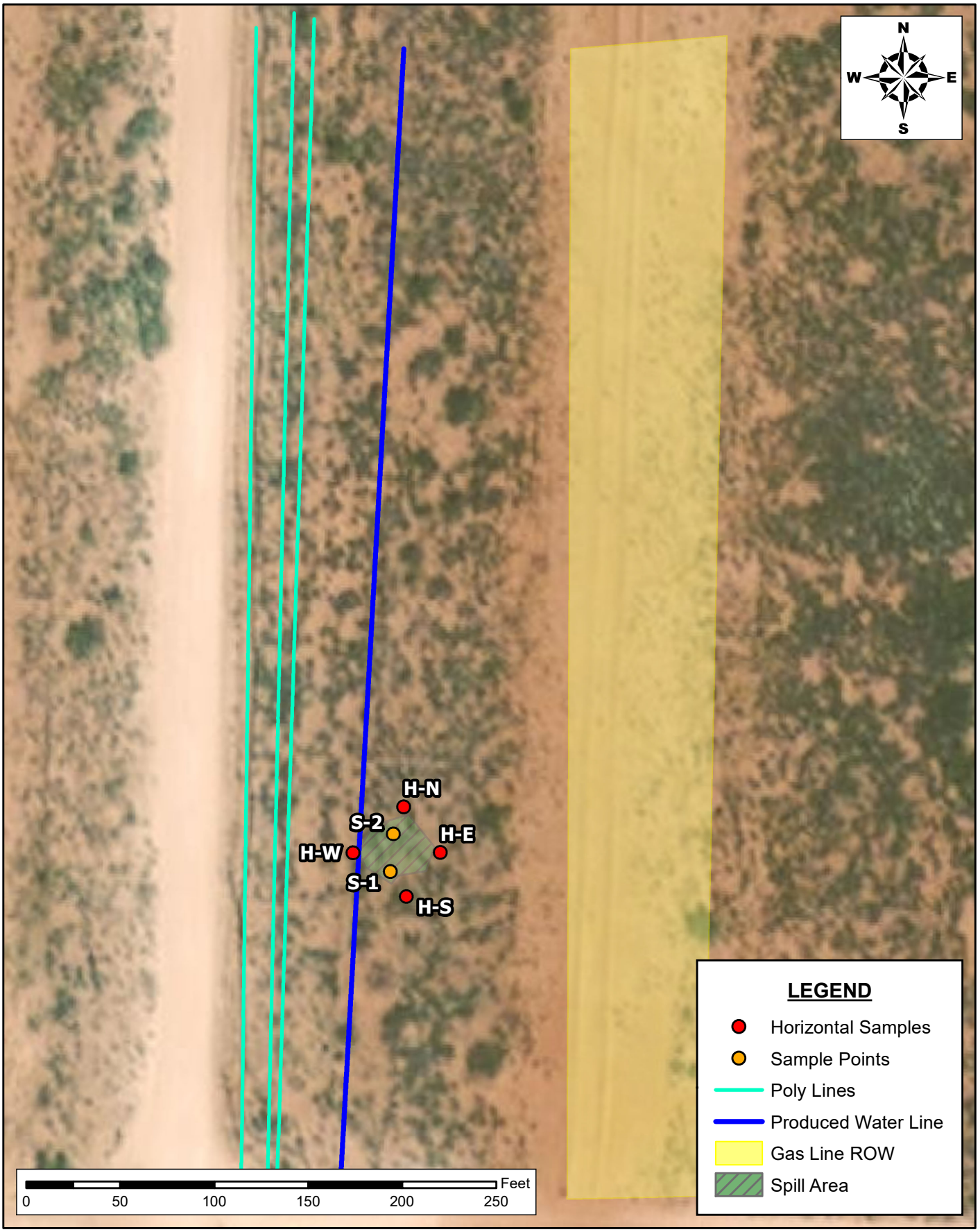


SAMPLE LOCATION MAP
EOG RESOURCES
PAULINE ALB STATE #6 2RP-161
EDDY COUNTY, NM
32.58990, -103.797180

SCALE: As Shown	DATE: 03/18/2015	PROJECT #: 214050

New Tech Global Environmental, LLC
911 Regional Park Drive
Houston, Texas 77060
T - 281.872.9300
F - 281.872.4521
Web: www.ntglobal.com

NOTES:
1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:
FIGURE 3
SHEET NUMBER:
1 of 1

Document Path: P:\2021 PROJECTS\EOG\214050 Pauline ALB State #6 2RP-1617 - Figures\GIS\Geodatabase\Figure_3_SampleMap_03282021.mxd

Tables

Table 1
EOG Resources
Pauline ALB State #6
Eddy County, New Mexico

Sample ID	Date	Sample Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
S-1	3/10/2021	0 - 1.0	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00198	9.08
	"	1 - 1.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	<4.96
S-2	3/10/2021	0 - 1.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	10.5
	"	1 - 1.5	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	<4.97
H-N	3/10/2021	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00397	<0.00198	<5.02
H-S	3/10/2021	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<4.96
H-E	3/10/2021	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	<5.00
H-W	3/10/2021	0-0.5	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00198	<5.05
Regulatory Limits						**100 mg/kg**	**10 mg/kg**				**50 mg/kg**	**600 mg/kg**

(-) Not Analyzed
A – Table 1 - 19.15.29 NMAC
mg/kg - milligram per kilogram
TPH- Total Petroleum Hydrocarbons
ft-feet

Photo Log

PHOTOGRAPHIC LOG

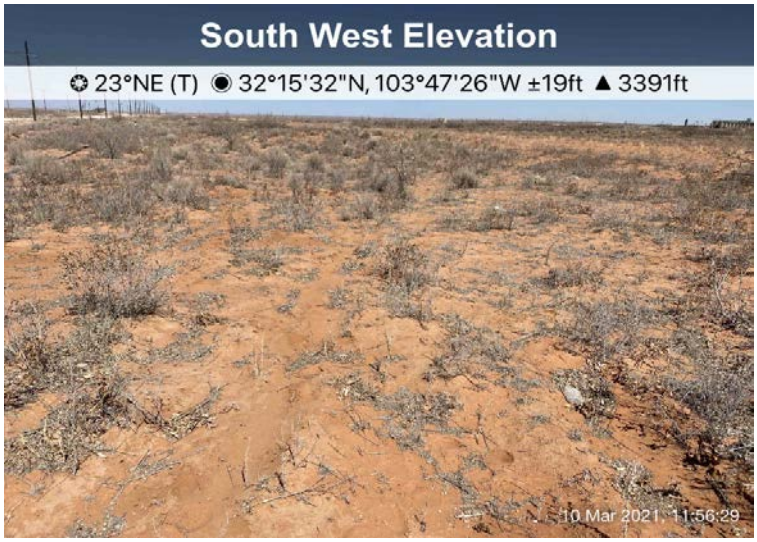
EOG Resources

Photograph No. 1

Facility: Pauline ALB State #6 2RP-161

County: Eddy County, New Mexico

Description:
View of sampled release area facing northeast.

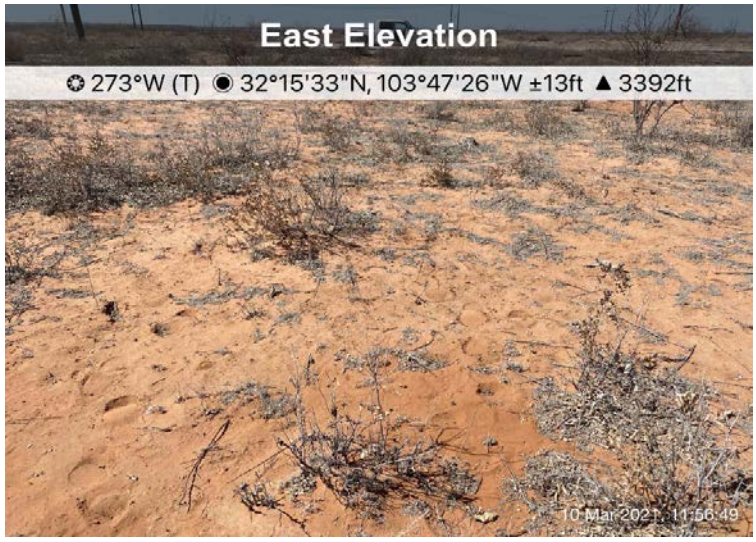


Photograph No. 2

Facility: Pauline ALB State #6 2RP-161

County: Eddy County, New Mexico

Description:
View of sampled release area facing west.

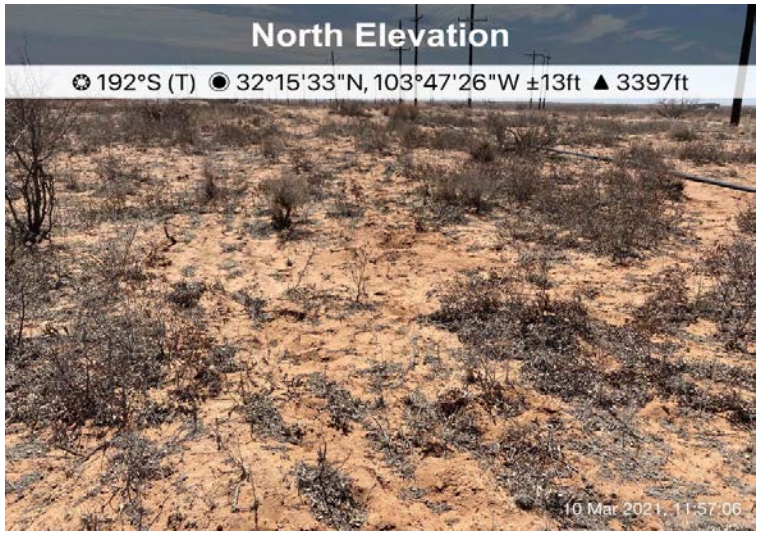


Photograph No. 3

Facility: Pauline ALB State #6 2RP-161

County: Eddy County, New Mexico

Description:
View of sampled release area facing south.



Appendix A

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

SEB0811550840
1SEB0811549965
2SEB0811550027

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	OGRID Number	Contact
Yates Petroleum Corporation	25575	Robert Asher
Address		Telephone No.
104 S. 4TH Street		505-748-1471
Facility Name	API Number	Facility Type
Pauline ALB State #6	30-015-25866	Pipe line

Surface Owner	Mineral Owner	Lease No.
Federal	State	VO-3589

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	32	23S	31E	1980	South	1980	East	Eddy

Latitude 32.25899 **Longitude** 103.79718

NATURE OF RELEASE

Type of Release	Volume of Release	Volume Recovered
Produced Water	40 B/PW	30 B/PW
Source of Release	Date and Hour of Occurrence	Date and Hour of Discovery
Pipe Line	4/11/2008, AM	4/11/2008, AM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Mike Bratcher/NMOCD District II (Voicemail & E-mail)	
By Whom? Robert Asher/YPC Environmental Department	Date and Hour 4/11/2008, PM	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A	

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

Describe Cause of Problem and Remedial Action Taken.*
Produced water line between Pauline ALB State #6 battery (approximately 0.5 miles east) and Medona VA Battery ruptured. Shut down well(s) and isolated line, called vacuum truck.

Describe Area Affected and Cleanup Action Taken.*
An approximate area of 35' X 35'. Vacuum truck picked up remaining produced water, water line repaired. Contaminated soils to be excavated and hauled to OCD approved disposal facility, nitrogen fertilizer applied and filled into soils, area sprayed with Microblaze. Vertical and horizontal delineation to be conducted within sixty days and if further remediation is needed then corrective action will be taken. **Depth to Ground Water: > 100' (approximately 300'), Wellhead Protection Area: No, Distance to Surface Water Body: > 1000', SITE RANKING IS 0.**

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

Signature:	OIL CONSERVATION DIVISION Accepted for record NMOCD
Printed Name: Robert Asher	Approved by District Supervisor:
Title: Environmental Regulatory Agent	Approval Date: 5-19-08 (Processed) Expiration Date: 6-16-08
E-mail Address: boba@ypcnm.com	Conditions of Approval: REMEDIATION WORK PLAN DUE Attached ☑
Date: Friday, April 18, 2008 Phone: 505-748-1471	

* Attach Additional Sheets If Necessary

pSEB0811551047

2RP-161

New Mexico Energy, Minerals and Natural Resources Department

Bill Richardson
Governor

Joanna Prukop
Cabinet Secretary
Reese Fullerton
Deputy Cabinet Secretary

Mark Fesmire
Division Director
Oil Conservation Division

May 19, 2008

Yates Petroleum Corporation
Attn: Robert Asher
105 S 4th Street
Artesia, NM 88210

Reference: Pauline ALB State 6 J-32-23S-31E
30 015 25866 Eddy County, New Mexico
2RP-161

Operator,

The New Mexico Oil Conservation Division District 2 Office (OCD) is in receipt of an Initial Report C-141 for a release of produced water occurring at the above referenced facility on April 11, 2008. Stated on the C-141 is "...Contaminated soils to be excavated and hauled to OCD approved disposal facility, nitrogen fertilizer applied and tilled into soils, area sprayed with Microblaze. Vertical and horizontal delineation to be conducted within sixty days and if further remediation is needed then corrective action will be taken."

Please submit a work plan proposal (plan) for remediation, removal and/or clean up of contaminants that may be present at this site. The plan is to be formulated based on vertical and horizontal delineation of contamination, site ranking, and OCD Rules and Guidelines. Please provide information regarding any clean up actions already conducted at this site.

This report is accepted with the following stipulations:

1. Please notify OCD 48 hours prior to obtaining samples where analyses of samples obtained are to be submitted to OCD.
2. Please submit remediation work plan to OCD on or before June 16, 2008.

Remediation requirements may be subject to other federal, state, local laws and/or regulations. Additionally, please be advised that OCD approval does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment.

Thank you for your attention to these matters. If I can be of assistance, you may reach me at the contact information listed below.

Respectfully,

Sherry Bonham
NMOCD District 2
1301 West Grand Ave.
Artesia, NM 88210
(505) 748-1283 Ext.109
sherry.bonham@state.nm.us

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	2RP-161
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?	430' (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☑ 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)?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☑ 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?	☐ Yes ☑ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☑ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☑ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☑ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☑ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☑ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☑ Yes ☐ 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.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	2RP-161
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: James Kennedy Title: Environmental Specialist

Signature: James Kennedy Date: 03/30/2021

email: james_kennedy@eogresources.com Telephone: 432.848.9146

OCD Only

Received by: _____ Date: _____

Form C-141
Page 6

State of New Mexico
Oil Conservation Division

Incident ID	nSEB0811550027
District RP	2RP-161
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: James Kennedy Title: Environmental Specialist

Signature: James Kennedy Date: 3/30/2021

email: james_kennedy@eogresources.com Telephone: 432.848.9146

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.

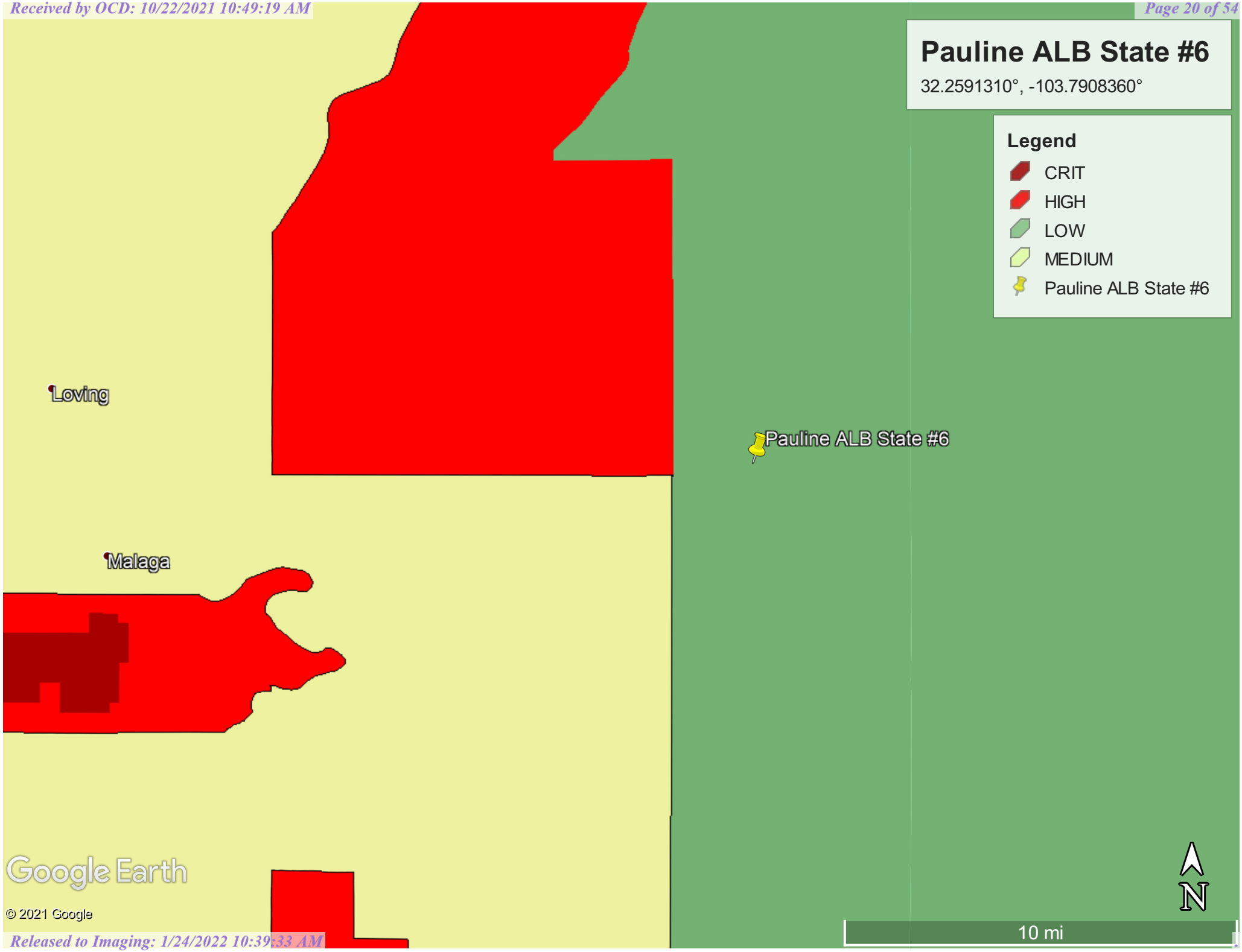
Closure Approved by: Bradford Billings Date: 01/24/2022

Printed Name: Bradford Billings Title: E.Spec.A

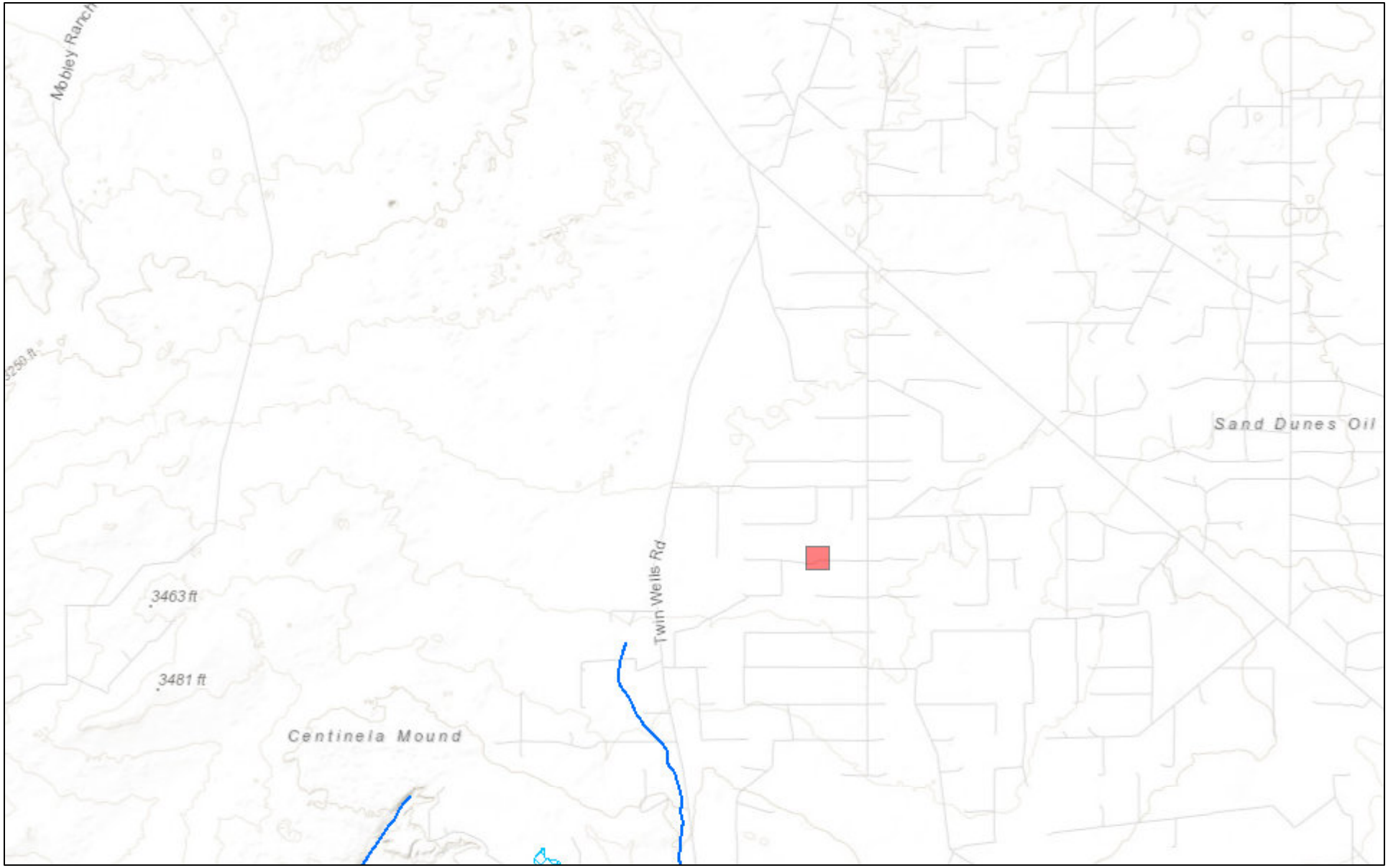
Appendix B

Pauline ALB State #6

32.2591310°, -103.7908360°



New Mexico NFHL Data



March 23, 2021

1:72,224

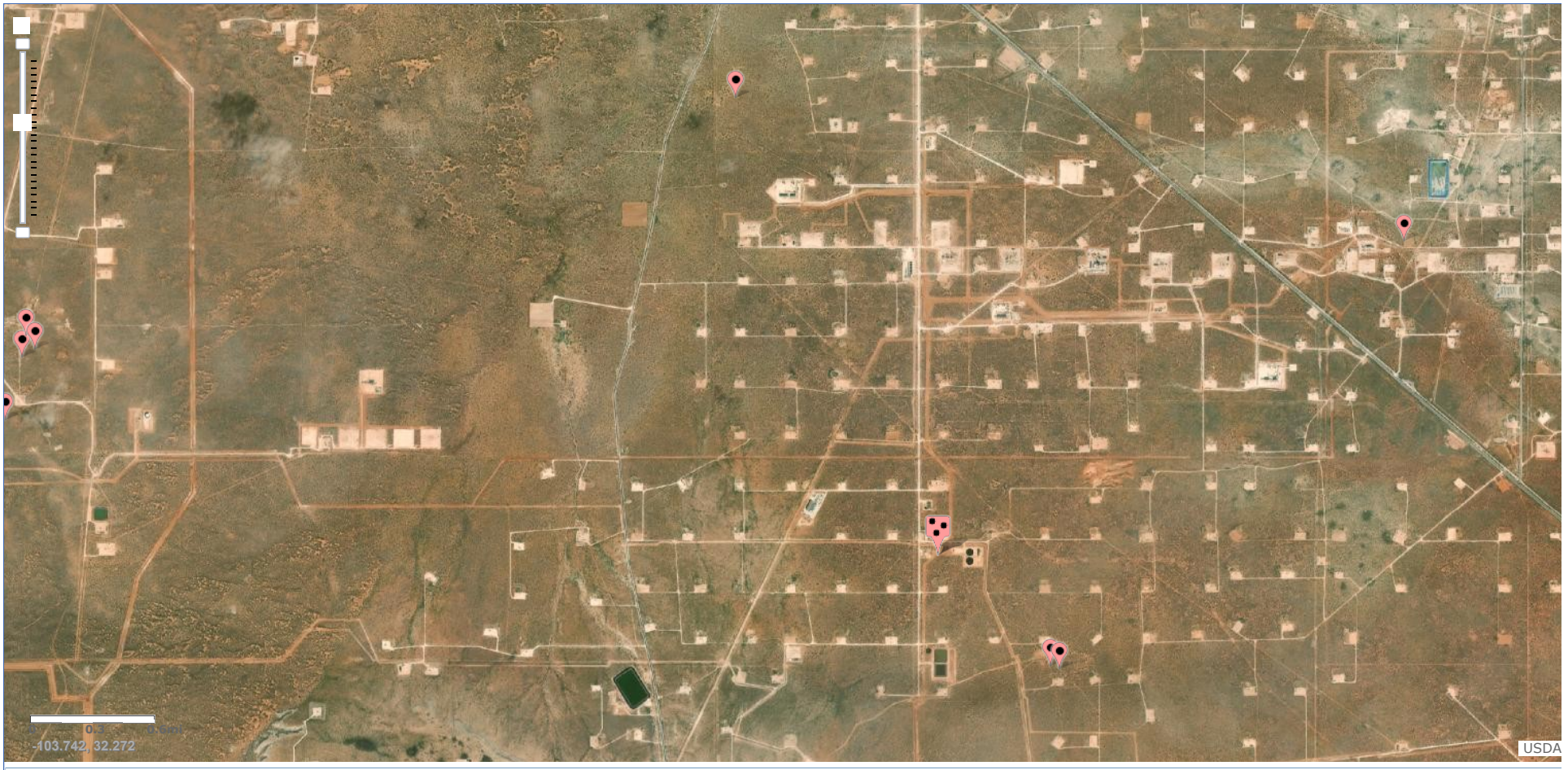
0 0.5 1 2 mi

0 1 2 4 km

FEMA
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS,

nmflood.org is made possible through a collaboration with NMDHSEM, EDAC, and FEMA
This is a non-regulatory product for informational use only. Please consult your local floodplain administrator for further information.

National Water Information System: Mapper



Site Information

Pauline ALB State #6

32.2591310°, -103.7908360°

Legend

- 0.50 Mile Radius
- Water Well

NMSEO 662' 23S 31E S26

NMSEO 430' 23S 31E S26

Pauline ALB State #6

Google Earth

N

1 mi

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

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

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

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

POD Number	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 02258	C	ED		3	2	26	23S	31E	618055	3571853*	662		
C 02348	C	ED	1	4	3	26	23S	31E	617648	3571068	700	430	270
C 02492	CUB	ED	4	4	4	06	23S	31E	612056	3577320*	135	85	50
C 02492 POD2	C	ED	3	2	2	07	23S	31E	611767	3576996	400	125	275
C 02664	CUB	ED	3	3	2	05	23S	31E	613049	3578138*	4291	354	3937
C 02725	CUB	ED	1	1	1	05	23S	31E	612240	3578731*	532		
C 02773	CUB	ED	4	1	3	03	23S	31E	615668	3577762*	880		
C 02774	CUB	ED	3	1	3	04	23S	31E	613857	3577745*	1660		
C 02775	CUB	ED	1	1	1	05	23S	31E	612240	3578731*	529		
C 02776	CUB	ED	2	1	1	05	23S	31E	612440	3578731*	661		
C 02777	CUB	ED	4	4	4	10	23S	31E	616974	3575662	890		
C 02865	CUB	ED	4	4	4	06	23S	31E	612056	3577320*	174		
C 02954 EXPL	CUB	ED	3	1	4	20	23S	31E	613114	3572906*	905		
C 03140	CUB	ED	4	2	4	04	23S	31E	615266	3577758*	684		
C 03351	C	ED	4	1	4	04	23S	31E	614917	3577861	320	168	152
C 03520 POD1	C	ED	3	1	1	07	23S	31E	610733	3576905	500		
C 03749 POD1	CUB	ED		2	2	15	23S	31E	616974	3575662	865	639	226

Average Depth to Water: **300 feet**

Minimum Depth: **85 feet**

Maximum Depth: **639 feet**

Record Count: 17

PLSS Search:

Township: 23S **Range:** 31E

***UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer

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	Twn	Rng	X	Y
	C 02348	1	4	3	26	23S	31E	617648	3571068

Driller License: 1654 **Driller Company:** NOT WORKING FOR HIRE--SIRMAN DRILLING AND CONSTRUC

Driller Name:

Drill Start Date: 10/31/2013 **Drill Finish Date:** 11/01/2013 **Plug Date:**

Log File Date: 11/07/2013 **PCW Rcv Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:** 10 GPM

Casing Size: 6.00 **Depth Well:** 700 feet **Depth Water:** 430 feet

Water Bearing Stratifications:	Top	Bottom	Description
	15	125	Sandstone/Gravel/Conglomerate
	315	700	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	560	620
	680	700

Appendix C

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Certificate of Analysis Summary 691476

NT Global, Midland, TX

Project Name: Pauline ALB State #6 2RP-161

Project Id: 214050
Contact: Mike Carmona
Project Location: Eddy Co, NM

Date Received in Lab: Thu 03.11.2021 14:38
Report Date: 03.22.2021 15:30
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	691476-001		691476-002		691476-003		691476-004		691476-005		691476-006	
	Field Id:	S-1 0-1'		S-1 1-1.5'		S-2 0-1'		S-2 1-1.5'		H-N 0-6"		H-S 0-6"	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	03.10.2021 00:00		03.10.2021 00:00		03.10.2021 00:00		03.10.2021 00:00		03.10.2021 00:00		03.10.2021 00:00	
BTEX by EPA 8021B	***Extracted:***	03.19.2021 16:15		03.19.2021 16:15		03.19.2021 16:15		03.19.2021 16:15		03.19.2021 16:15		03.19.2021 16:15	
	Analyzed:	03.20.2021 17:01		03.20.2021 17:26		03.20.2021 17:52		03.20.2021 19:33		03.20.2021 19:58		03.20.2021 20:23	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201	<0.00198	0.00198	<0.00200	0.00200
Toluene		<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201	<0.00198	0.00198	<0.00200	0.00200
Ethylbenzene		<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201	<0.00198	0.00198	<0.00200	0.00200
m,p-Xylenes		<0.00396	0.00396	<0.00399	0.00399	<0.00398	0.00398	<0.00402	0.00402	<0.00397	0.00397	<0.00400	0.00400
o-Xylene		<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201	<0.00198	0.00198	<0.00200	0.00200
Total Xylenes		<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201	<0.00198	0.00198	<0.00200	0.00200
Total BTEX		<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201	<0.00198	0.00198	<0.00200	0.00200
Inorganic Anions by EPA 300/300.1	***Extracted:***	03.17.2021 13:20		03.17.2021 13:20		03.17.2021 13:20		03.17.2021 13:20		03.17.2021 15:50		03.17.2021 15:50	
	Analyzed:	03.18.2021 01:45		03.18.2021 01:50		03.18.2021 01:55		03.18.2021 02:00		03.17.2021 19:21		03.17.2021 19:37	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		9.08	4.99	<4.96	4.96	10.5	5.00	<4.97	4.97	<5.02	5.02	<4.96	4.96
TPH By SW8015 Mod	***Extracted:***	03.14.2021 09:00		03.14.2021 09:00		03.14.2021 09:00		03.14.2021 09:00		03.14.2021 09:00		03.14.2021 09:00	
	Analyzed:	03.14.2021 17:00		03.14.2021 17:42		03.14.2021 18:03		03.14.2021 18:24		03.14.2021 18:45		03.14.2021 19:05	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0	<50.0	50.0
Diesel Range Organics (DRO)		<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0	<50.0	50.0
Total TPH		<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0	<50.0	50.0

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Certificate of Analysis Summary 691476

NT Global, Midland, TX

Project Name: Pauline ALB State #6 2RP-161

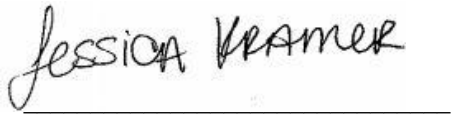
Project Id: 214050
Contact: Mike Carmona
Project Location: Eddy Co, NM

Date Received in Lab: Thu 03.11.2021 14:38
Report Date: 03.22.2021 15:30
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	691476-007		691476-008			
	Field Id:	H-E 0-6"		H-W 0-6"			
	Depth:						
	Matrix:	SOIL		SOIL			
	Sampled:	03.10.2021 00:00		03.10.2021 00:00			
BTEX by EPA 8021B	***Extracted:***	03.19.2021 16:15		03.19.2021 16:15			
	Analyzed:	03.20.2021 20:48		03.20.2021 21:13			
	Units/RL:	mg/kg	RL	mg/kg	RL		
Benzene		<0.00200	0.00200	<0.00198	0.00198		
Toluene		<0.00200	0.00200	<0.00198	0.00198		
Ethylbenzene		<0.00200	0.00200	<0.00198	0.00198		
m,p-Xylenes		<0.00399	0.00399	<0.00396	0.00396		
o-Xylene		<0.00200	0.00200	<0.00198	0.00198		
Total Xylenes		<0.00200	0.00200	<0.00198	0.00198		
Total BTEX		<0.00200	0.00200	<0.00198	0.00198		
Inorganic Anions by EPA 300/300.1	***Extracted:***	03.17.2021 15:50		03.17.2021 15:50			
	Analyzed:	03.17.2021 19:43		03.17.2021 20:38			
	Units/RL:	mg/kg	RL	mg/kg	RL		
Chloride		<5.00	5.00	<5.05	5.05		
TPH By SW8015 Mod	***Extracted:***	03.14.2021 09:00		03.14.2021 09:00			
	Analyzed:	03.14.2021 19:26		03.14.2021 19:47			
	Units/RL:	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	<49.8	49.8		
Diesel Range Organics (DRO)		<49.9	49.9	<49.8	49.8		
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	<49.8	49.8		
Total TPH		<49.9	49.9	<49.8	49.8		

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



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Analytical Report 691476

for

NT Global

Project Manager: Mike Carmona

Pauline ALB State #6 2RP-161

214050

03.22.2021

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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03.22.2021

Project Manager: **Mike Carmona**
NT Global
701 Tradewinds Blvd
Midland, TX 79706

Reference: Eurofins Xenco, LLC Report No(s): **691476**
Pauline ALB State #6 2RP-161
Project Address: Eddy Co, NM

Mike Carmona:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 691476. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 691476 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Sample Cross Reference 691476

NT Global, Midland, TX

Pauline ALB State #6 2RP-161

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
S-1 0-1'	S	03.10.2021 00:00		691476-001
S-1 1-1.5'	S	03.10.2021 00:00		691476-002
S-2 0-1'	S	03.10.2021 00:00		691476-003
S-2 1-1.5'	S	03.10.2021 00:00		691476-004
H-N 0-6"	S	03.10.2021 00:00		691476-005
H-S 0-6"	S	03.10.2021 00:00		691476-006
H-E 0-6"	S	03.10.2021 00:00		691476-007
H-W 0-6"	S	03.10.2021 00:00		691476-008

CASE NARRATIVE

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Client Name: NT Global

Project Name: Pauline ALB State #6 2RP-161

Project ID: *214050*
Work Order Number(s): *691476*

Report Date: *03.22.2021*
Date Received: *03.11.2021*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3153706 TPH By SW8015 Mod

Surrogate 1-Chlorooctane recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.
Samples affected are: 691432-001 SD.

Batch: LBA-3154039 Inorganic Anions by EPA 300/300.1

Lab Sample ID 691476-008 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 691476-005, -006, -007, -008.
The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

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Certificate of Analytical Results 691476

NT Global, Midland, TX

Pauline ALB State #6 2RP-161

Sample Id:	**S-1 0-1'**	Matrix:	Soil	Date Received:	03.11.2021 14:38
Lab Sample Id:	691476-001	Date Collected:	03.10.2021 00:00		

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	03.17.2021 13:20	% Moisture:	
Seq Number:	3154027			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**9.08**	4.99	mg/kg	03.18.2021 01:45		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	03.14.2021 09:00	% Moisture:	
Seq Number:	3153706			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.14.2021 17:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.14.2021 17:00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.14.2021 17:00	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.14.2021 17:00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-130	03.14.2021 17:00	
o-Terphenyl	84-15-1	96	%	70-130	03.14.2021 17:00	

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Certificate of Analytical Results 691476

NT Global, Midland, TX

Pauline ALB State #6 2RP-161

Sample Id:	**S-1 0-1'**	Matrix:	Soil	Date Received:	03.11.2021 14:38
Lab Sample Id:	691476-001	Date Collected:	03.10.2021 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	03.19.2021 16:15	% Moisture:	
Seq Number:	3154310			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	03.20.2021 17:01	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	03.20.2021 17:01	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	03.20.2021 17:01	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	03.20.2021 17:01	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	03.20.2021 17:01	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	03.20.2021 17:01	U	1
Total BTEX		<0.00198	0.00198	mg/kg	03.20.2021 17:01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	119	%	70-130	03.20.2021 17:01	
4-Bromofluorobenzene	460-00-4	113	%	70-130	03.20.2021 17:01	

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Certificate of Analytical Results 691476

NT Global, Midland, TX

Pauline ALB State #6 2RP-161

Sample Id:	**S-1 1-1.5'**	Matrix:	Soil	Date Received:	03.11.2021 14:38
Lab Sample Id:	691476-002	Date Collected:	03.10.2021 00:00		

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	03.17.2021 13:20	% Moisture:	
Seq Number:	3154027			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.96	4.96	mg/kg	03.18.2021 01:50	U	1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	03.14.2021 09:00	% Moisture:	
Seq Number:	3153706			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.14.2021 17:42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.14.2021 17:42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.14.2021 17:42	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.14.2021 17:42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-130	03.14.2021 17:42	
o-Terphenyl	84-15-1	101	%	70-130	03.14.2021 17:42	

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Certificate of Analytical Results 691476

NT Global, Midland, TX

Pauline ALB State #6 2RP-161

Sample Id:	**S-1 1-1.5'**	Matrix:	Soil	Date Received:	03.11.2021 14:38
Lab Sample Id:	691476-002	Date Collected:	03.10.2021 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	03.19.2021 16:15	% Moisture:	
Seq Number:	3154310			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.20.2021 17:26	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.20.2021 17:26	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.20.2021 17:26	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	03.20.2021 17:26	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.20.2021 17:26	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.20.2021 17:26	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.20.2021 17:26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	117	%	70-130	03.20.2021 17:26	
4-Bromofluorobenzene	460-00-4	114	%	70-130	03.20.2021 17:26	

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Certificate of Analytical Results 691476

NT Global, Midland, TX

Pauline ALB State #6 2RP-161

Sample Id:	**S-2 0-1'**	Matrix:	Soil	Date Received:	03.11.2021 14:38
Lab Sample Id:	691476-003	Date Collected:	03.10.2021 00:00		

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	03.17.2021 13:20	% Moisture:	
Seq Number:	3154027			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**10.5**	5.00	mg/kg	03.18.2021 01:55		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	03.14.2021 09:00	% Moisture:	
Seq Number:	3153706			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	03.14.2021 18:03	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	03.14.2021 18:03	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	03.14.2021 18:03	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	03.14.2021 18:03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-130	03.14.2021 18:03	
o-Terphenyl	84-15-1	103	%	70-130	03.14.2021 18:03	

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Certificate of Analytical Results 691476

NT Global, Midland, TX

Pauline ALB State #6 2RP-161

Sample Id:	**S-2 0-1'**	Matrix:	Soil	Date Received:	03.11.2021 14:38
Lab Sample Id:	691476-003	Date Collected:	03.10.2021 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	03.19.2021 16:15	% Moisture:	
Seq Number:	3154310			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	03.20.2021 17:52	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	03.20.2021 17:52	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	03.20.2021 17:52	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	03.20.2021 17:52	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	03.20.2021 17:52	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	03.20.2021 17:52	U	1
Total BTEX		<0.00199	0.00199	mg/kg	03.20.2021 17:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	116	%	70-130	03.20.2021 17:52	
1,4-Difluorobenzene	540-36-3	117	%	70-130	03.20.2021 17:52	

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Certificate of Analytical Results 691476

NT Global, Midland, TX

Pauline ALB State #6 2RP-161

Sample Id:	**S-2 1-1.5'**	Matrix:	Soil	Date Received:	03.11.2021 14:38
Lab Sample Id:	691476-004	Date Collected:	03.10.2021 00:00		

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	03.17.2021 13:20	% Moisture:	
Seq Number:	3154027			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.97	4.97	mg/kg	03.18.2021 02:00	U	1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	03.14.2021 09:00	% Moisture:	
Seq Number:	3153706			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	03.14.2021 18:24	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	03.14.2021 18:24	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	03.14.2021 18:24	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	03.14.2021 18:24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-130	03.14.2021 18:24	
o-Terphenyl	84-15-1	98	%	70-130	03.14.2021 18:24	

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Certificate of Analytical Results 691476

NT Global, Midland, TX

Pauline ALB State #6 2RP-161

Sample Id:	**S-2 1-1.5'**	Matrix:	Soil	Date Received:	03.11.2021 14:38
Lab Sample Id:	691476-004	Date Collected:	03.10.2021 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	03.19.2021 16:15	% Moisture:	
Seq Number:	3154310			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	03.20.2021 19:33	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	03.20.2021 19:33	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	03.20.2021 19:33	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	03.20.2021 19:33	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	03.20.2021 19:33	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	03.20.2021 19:33	U	1
Total BTEX		<0.00201	0.00201	mg/kg	03.20.2021 19:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	111	%	70-130	03.20.2021 19:33	
1,4-Difluorobenzene	540-36-3	102	%	70-130	03.20.2021 19:33	

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Certificate of Analytical Results 691476

NT Global, Midland, TX

Pauline ALB State #6 2RP-161

Sample Id:	**H-N 0-6"**	Matrix:	Soil	Date Received:	03.11.2021 14:38
Lab Sample Id:	691476-005	Date Collected:	03.10.2021 00:00		

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	03.17.2021 15:50	% Moisture:	
Seq Number:	3154039			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.02	5.02	mg/kg	03.17.2021 19:21	UX	1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	03.14.2021 09:00	% Moisture:	
Seq Number:	3153706			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.14.2021 18:45	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.14.2021 18:45	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.14.2021 18:45	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.14.2021 18:45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-130	03.14.2021 18:45	
o-Terphenyl	84-15-1	91	%	70-130	03.14.2021 18:45	

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Certificate of Analytical Results 691476

NT Global, Midland, TX

Pauline ALB State #6 2RP-161

Sample Id:	**H-N 0-6"**	Matrix:	Soil	Date Received:	03.11.2021 14:38
Lab Sample Id:	691476-005	Date Collected:	03.10.2021 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	03.19.2021 16:15	% Moisture:	
Seq Number:	3154310			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	03.20.2021 19:58	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	03.20.2021 19:58	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	03.20.2021 19:58	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	03.20.2021 19:58	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	03.20.2021 19:58	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	03.20.2021 19:58	U	1
Total BTEX		<0.00198	0.00198	mg/kg	03.20.2021 19:58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	112	%	70-130	03.20.2021 19:58	
4-Bromofluorobenzene	460-00-4	102	%	70-130	03.20.2021 19:58	

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NT Global, Midland, TX

Pauline ALB State #6 2RP-161

Sample Id:	**H-S 0-6"**	Matrix:	Soil	Date Received:	03.11.2021 14:38
Lab Sample Id:	691476-006	Date Collected:	03.10.2021 00:00		

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	03.17.2021 15:50	% Moisture:	
Seq Number:	3154039			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.96	4.96	mg/kg	03.17.2021 19:37	U	1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	03.14.2021 09:00	% Moisture:	
Seq Number:	3153706			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.14.2021 19:05	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.14.2021 19:05	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.14.2021 19:05	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.14.2021 19:05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-130	03.14.2021 19:05	
o-Terphenyl	84-15-1	101	%	70-130	03.14.2021 19:05	

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NT Global, Midland, TX

Pauline ALB State #6 2RP-161

Sample Id:	**H-S 0-6"**	Matrix:	Soil	Date Received:	03.11.2021 14:38
Lab Sample Id:	691476-006	Date Collected:	03.10.2021 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	03.19.2021 16:15	% Moisture:	
Seq Number:	3154310			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.20.2021 20:23	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.20.2021 20:23	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.20.2021 20:23	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	03.20.2021 20:23	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.20.2021 20:23	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.20.2021 20:23	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.20.2021 20:23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	118	%	70-130	03.20.2021 20:23	
1,4-Difluorobenzene	540-36-3	116	%	70-130	03.20.2021 20:23	

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NT Global, Midland, TX

Pauline ALB State #6 2RP-161

Sample Id: **H-E 0-6"** Matrix: Soil Date Received:03.11.2021 14:38

Lab Sample Id: 691476-007 Date Collected: 03.10.2021 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 03.17.2021 15:50 % Moisture:

Seq Number: 3154039 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.00	5.00	mg/kg	03.17.2021 19:43	U	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 03.14.2021 09:00 % Moisture:

Seq Number: 3153706 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	03.14.2021 19:26	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	03.14.2021 19:26	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	03.14.2021 19:26	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	03.14.2021 19:26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-130	03.14.2021 19:26	
o-Terphenyl	84-15-1	101	%	70-130	03.14.2021 19:26	

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NT Global, Midland, TX

Pauline ALB State #6 2RP-161

Sample Id:	**H-E 0-6"**	Matrix:	Soil	Date Received:	03.11.2021 14:38
Lab Sample Id:	691476-007	Date Collected:	03.10.2021 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	03.19.2021 16:15	% Moisture:	
Seq Number:	3154310			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.20.2021 20:48	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.20.2021 20:48	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.20.2021 20:48	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	03.20.2021 20:48	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.20.2021 20:48	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.20.2021 20:48	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.20.2021 20:48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	118	%	70-130	03.20.2021 20:48	
1,4-Difluorobenzene	540-36-3	115	%	70-130	03.20.2021 20:48	

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Certificate of Analytical Results 691476

NT Global, Midland, TX

Pauline ALB State #6 2RP-161

Sample Id:	**H-W 0-6"**	Matrix:	Soil	Date Received:	03.11.2021 14:38
Lab Sample Id:	691476-008	Date Collected:	03.10.2021 00:00		

Analytical Method:	Inorganic Anions by EPA 300/300.1			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	03.17.2021 15:50	% Moisture:	
Seq Number:	3154039			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.05	5.05	mg/kg	03.17.2021 20:38	UX	1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	03.14.2021 09:00	% Moisture:	
Seq Number:	3153706			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	03.14.2021 19:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	03.14.2021 19:47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	03.14.2021 19:47	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	03.14.2021 19:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-130	03.14.2021 19:47	
o-Terphenyl	84-15-1	92	%	70-130	03.14.2021 19:47	

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Certificate of Analytical Results 691476

NT Global, Midland, TX

Pauline ALB State #6 2RP-161

Sample Id:	**H-W 0-6"**	Matrix:	Soil	Date Received:	03.11.2021 14:38
Lab Sample Id:	691476-008	Date Collected:	03.10.2021 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	03.19.2021 16:15	% Moisture:	
Seq Number:	3154310			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	03.20.2021 21:13	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	03.20.2021 21:13	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	03.20.2021 21:13	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	03.20.2021 21:13	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	03.20.2021 21:13	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	03.20.2021 21:13	U	1
Total BTEX		<0.00198	0.00198	mg/kg	03.20.2021 21:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	121	%	70-130	03.20.2021 21:13	
1,4-Difluorobenzene	540-36-3	118	%	70-130	03.20.2021 21:13	

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Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

QC Summary 691476

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NT Global

Pauline ALB State #6 2RP-161

Analytical Method: Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3154027 — Matrix: Solid — Date Prep: 03.17.2021
MB Sample Id: 7723527-1-BLK — LCS Sample Id: 7723527-1-BKS — LCSD Sample Id: 7723527-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	253	101	259	104	90-110	2	20	mg/kg	03.17.2021 23:39	

Analytical Method: Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3154039 — Matrix: Solid — Date Prep: 03.17.2021
MB Sample Id: 7723575-1-BLK — LCS Sample Id: 7723575-1-BKS — LCSD Sample Id: 7723575-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	244	98	245	98	90-110	0	20	mg/kg	03.17.2021 19:09	

Analytical Method: Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3154027 — Matrix: Soil — Date Prep: 03.17.2021
Parent Sample Id: 691475-003 — MS Sample Id: 691475-003 S — MSD Sample Id: 691475-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	302	248	552	101	557	103	90-110	1	20	mg/kg	03.17.2021 23:54	

Analytical Method: Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3154027 — Matrix: Soil — Date Prep: 03.17.2021
Parent Sample Id: 691475-013 — MS Sample Id: 691475-013 S — MSD Sample Id: 691475-013 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	3480	1240	4900	115	4920	116	90-110	0	20	mg/kg	03.18.2021 01:04	X

Analytical Method: Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3154039 — Matrix: Soil — Date Prep: 03.17.2021
Parent Sample Id: 691476-005 — MS Sample Id: 691476-005 S — MSD Sample Id: 691476-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.02	251	303	121	293	117	90-110	3	20	mg/kg	03.17.2021 19:26	X

Analytical Method: Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3154039 — Matrix: Soil — Date Prep: 03.17.2021
Parent Sample Id: 691476-008 — MS Sample Id: 691476-008 S — MSD Sample Id: 691476-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.05	253	291	115	285	113	90-110	2	20	mg/kg	03.17.2021 20:43	X

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 691476

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NT Global

Pauline ALB State #6 2RP-161

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3153706 — Matrix: Solid — Date Prep: 03.14.2021
MB Sample Id: 7723343-1-BLK — LCS Sample Id: 7723343-1-BKS — LCSD Sample Id: 7723343-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	28.6	1000	1160	116	1140	114	70-130	2	20	mg/kg	03.14.2021 12:16	
Diesel Range Organics (DRO)	<50.0	1000	1160	116	1150	115	70-130	1	20	mg/kg	03.14.2021 12:16	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	109		127		124		70-130	%	03.14.2021 12:16
o-Terphenyl	110		101		107		70-130	%	03.14.2021 12:16

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3153706 — Matrix: Solid — Date Prep: 03.14.2021
MB Sample Id: 7723343-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	03.14.2021 11:55	

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3153706 — Matrix: Soil — Date Prep: 03.14.2021
Parent Sample Id: 691432-001 — MS Sample Id: 691432-001 S — MSD Sample Id: 691432-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	20.0	997	1100	108	1320	131	70-130	18	20	mg/kg	03.14.2021 13:20	X
Diesel Range Organics (DRO)	<49.9	997	1100	110	1280	129	70-130	15	20	mg/kg	03.14.2021 13:20	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	118		137	**	70-130	%	03.14.2021 13:20
o-Terphenyl	98		110		70-130	%	03.14.2021 13:20

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3154310 — Matrix: Solid — Date Prep: 03.19.2021
MB Sample Id: 7723711-1-BLK — LCS Sample Id: 7723711-1-BKS — LCSD Sample Id: 7723711-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.117	117	0.117	117	70-130	0	35	mg/kg	03.20.2021 11:07	
Toluene	<0.00200	0.100	0.111	111	0.111	111	70-130	0	35	mg/kg	03.20.2021 11:07	
Ethylbenzene	<0.00200	0.100	0.108	108	0.109	109	70-130	1	35	mg/kg	03.20.2021 11:07	
m,p-Xylenes	<0.00400	0.200	0.221	111	0.223	112	70-130	1	35	mg/kg	03.20.2021 11:07	
o-Xylene	<0.00200	0.100	0.108	108	0.112	112	70-130	4	35	mg/kg	03.20.2021 11:07	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	95		122		119		70-130	%	03.20.2021 11:07
4-Bromofluorobenzene	72		96		97		70-130	%	03.20.2021 11:07

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

eurofins | Environment Testing Xenco

QC Summary 691476

NT Global

Pauline ALB State #6 2RP-161

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A

Seq Number: 3154310 Matrix: Soil Date Prep: 03.19.2021

Parent Sample Id: 691598-068 MS Sample Id: 691598-068 S MSD Sample Id: 691598-068 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00198	0.0990	0.0599	61	0.0150	15	70-130	120	35	mg/kg	03.20.2021 11:58	XF
Toluene	<0.00198	0.0990	0.0613	62	0.0180	18	70-130	109	35	mg/kg	03.20.2021 11:58	XF
Ethylbenzene	<0.00198	0.0990	0.0614	62	0.0176	18	70-130	111	35	mg/kg	03.20.2021 11:58	XF
m,p-Xylenes	<0.00396	0.198	0.127	64	0.0348	17	70-130	114	35	mg/kg	03.20.2021 11:58	XF
o-Xylene	<0.00198	0.0990	0.0660	67	0.0212	21	70-130	103	35	mg/kg	03.20.2021 11:58	XF

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	121		90		70-130	%	03.20.2021 11:58
4-Bromofluorobenzene	110		83		70-130	%	03.20.2021 11:58

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

Chain of Custody

NTG ENVIRONMENTAL

Work Order No: 691476

Page 1 of 1

Project Manager:	Mike Carmona	Bill to: (if different)	James Kennedy
Company Name:	NTG Environmental	Company Name:	EOG Resources
Address:	701 Tradewinds BLVD	Address:	5509 Champions Dr
City, State ZIP:	Midland, TX 79706	City, State ZIP:	Midland, Tx 79706
Phone:	432-813-0263	Email:	James_Kennedy@eogresources

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Pauline ALB State #6 2RP-161	Turn Around	
Project Number:	214050	☑ Routine ☐ Rush	
Project Location	Eddy Co, NM	Due Date:	72HR
Sampler's Name:	ES	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Received Intact:	(Yes) No	Thermometer ID:	R8
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	0.5
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	2.5
Total Containers:		Corrected Temperature:	3.0

ANALYSIS REQUEST

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chlordie 300.0	HOLD	Sample Comments
S-1 0-1'	3/10	-	X		G	1		x	x	x		
S-1 1-1.5'		-	X		G	1						
S-2 0-1'		-	X		G	1						
S-2 1-1.5'		-	X		G	1						
H-N 0-6"		-	X		G	1						
H-S 0-6"		-	X		G	1						
H-E 0-6"		-	X		G	1						
H-W 0-6"		-	X		G	1						

Parameters

Preservative Codes

None: NO	DI Water: H_2O
Cool: Cool	MeOH: Me
HCL: HC	HNO_3: HN
H_2SO_4: H_2	NaOH: Na
H_3PO_4: HP	
$NaHSO_4$: NABIS	
$Na_2S_2O_3$: $NaSO_3$	
Zn Acetate+NaOH: Zn	
NaOH+Ascorbic Acid: SAPC	

Additoinal Comments:

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			2		
3			4		
5			6		

Revised Date 05012020 Rev. 2020.1

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811 S. First St., Artesia, NM 88210
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District III
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Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
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 57488

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 57488
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bbillings	In future please sample older Cl releases to at least four feet.	1/24/2022