

SITE INFORMATION

Report Type: Closure Report 2RP-2826

General Site Information:

Site:	Maduro BOZ State Com #1H					
Company:	EOG Resources					
Section, Township and Range	Unit P	Sec. 10	T 25S	R 27E		
Lease Number:	API No. 30-015-37537					
County:	Eddy County					
GPS:	32.13904° N			104.17031° W		
Surface Owner:	State					
Mineral Owner:	State					
Directions:	From the intersection of Black River Village RD and Roadrunner Dr, Go S SW on Roadrunner Rd for 6.6miles Turn Left for 0.9miles Turn right 0.1 mile.					

Release Data:

Date Released:	2/14/2015
Type Release:	Produced Water & Oil
Source of Contamination:	Stuffing Box
Fluid Released:	1 bbl Oil, 15 bbl PW
Fluids Recovered:	1 bbl Oil, 14 bbl PW

Official Communication:

Name:	James Kennedy		Clair Gonzales
Company:	EOG Resources		Tetra Tech
Address:	5509 Champions Dr.		901 W. Wall St.
			Ste 100
City:	Midland, Texas, 79706		Midland, Texas, 79701
Phone number:	(432) 258-4346		(432) 682-4559
Fax:			
Email:	James_Kennedy@eogresources.com		clair.gonzales@tetrattech.com

Site Characterization

Depth to Groundwater:	33.41' Below Surface
Karst Potential:	High

Recommended Remedial Action Levels (RRALs)

Benzene	Total BTEX	TPH (GRO+DRO)	TPH (GRO+DRO+MRO)	Chlorides
10 mg/kg	50 mg/kg	100 mg/kg	100 mg/kg	600 mg/kg

**TETRA TECH**

October 26, 2020

Environmental Specialist
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: Closure Report for the EOG Resources, Maduro BOZ State 1H, Unit P, Section 10, Township 25 South, Range 27 East, Eddy County, New Mexico.

Oil Conservation Division:

Tetra Tech, Inc. (Tetra Tech) was contacted by EOG Resources (EOG) to assess and remediate a release that occurred at the EOG Resources, Maduro BOZ State 1H, Unit P, Section 10, Township 25 South, Range 27 East, Eddy County, New Mexico (Site). The site coordinates are 32.13904°, -104.17031°. The site location is shown on Figures 1 and 2.

Background

According to the State of New Mexico C-141 Initial Report the release was discovered on February 4, 2015 and released approximately 15 barrels of produced water and 1 barrel of oil, due to a leak in the stuffing box. Approximately 1 barrel of the released oil was recovered, and 14 barrels of the produced water were recovered. The release occurred on the pad and impacted area measuring approximately 50' x 25'. The C-141 form is included in Appendix A.

Site Characterization

A site characterization was performed for the site and no watercourses, lakebeds, sinkholes, playa lakes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, springs, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the specified distances. However, the site is in a high karst potential area. The nearest well is listed in the USGS National Water Information Database website in Section 2, approximately 2.01 miles Northeast of the site, and has a reported depth to groundwater of 33.41 feet below ground surface. Site characterization data is included in Appendix B.

Tetra Tech

4000 North Big Spring, Suite 401, Midland, TX 79705

Tel 432.682.4559 Fax 432.682.3946 www.tetrattech.com

**TETRA TECH**

Regulatory

A risk-based evaluation was performed for the Site in accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases, updated August 14, 2018. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the site characterization, the proposed RRAL for TPH is 100 mg/kg (GRO+DRO+MRO). Additionally, based on the site characterization, the proposed RRAL for chlorides is 600 mg/kg.

Remediation and Reclamation Activities

Tetra Tech personnel were onsite September 30, 2020 through October 5, 2020, to supervise the remediation and reclamation activities as well as to collect confirmation samples. The impacted areas were excavated to a total depth of 5.0' below surface, as shown on Figure 4 and Table 2.

Confirmation bottom hole and sidewall samples were collected every 200 square feet, a total of 8 bottom hole samples (Bottom Hole 1 through Bottom Hole 8) and 6 sidewall samples (SW-1 through SW-6) were collected to ensure proper removal of the impacted soils. The samples were submitted to the laboratory to be analyzed for TPH method 8015 extended, BTEX method 8021B, and Chloride by EPA Method 300.0. The sampling results are summarized in Table 1. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The excavation depths and sample locations are shown in Figure 4.

Referring to Table 2, all final confirmation samples collected showed benzene, total BTEX, and TPH concentrations below the laboratory reporting limits. Additionally, all final samples, showed chloride concentrations below the 600 mg/kg threshold.

Approximately 262 cubic yards of material was excavated and transported offsite for proper disposal. The areas were then backfilled with clean material to surface grade.

Conclusion

Based on the laboratory results, remediation activities performed, and safety concerns of further excavation on elevated samples, EOG requests closure of this spill issue. The final C-141 is enclosed in Appendix A. If you have any questions or comments concerning the assessment or remediation activities for this site, please call at (432) 687-8123.



TETRA TECH

Respectfully submitted,
TETRA TECH



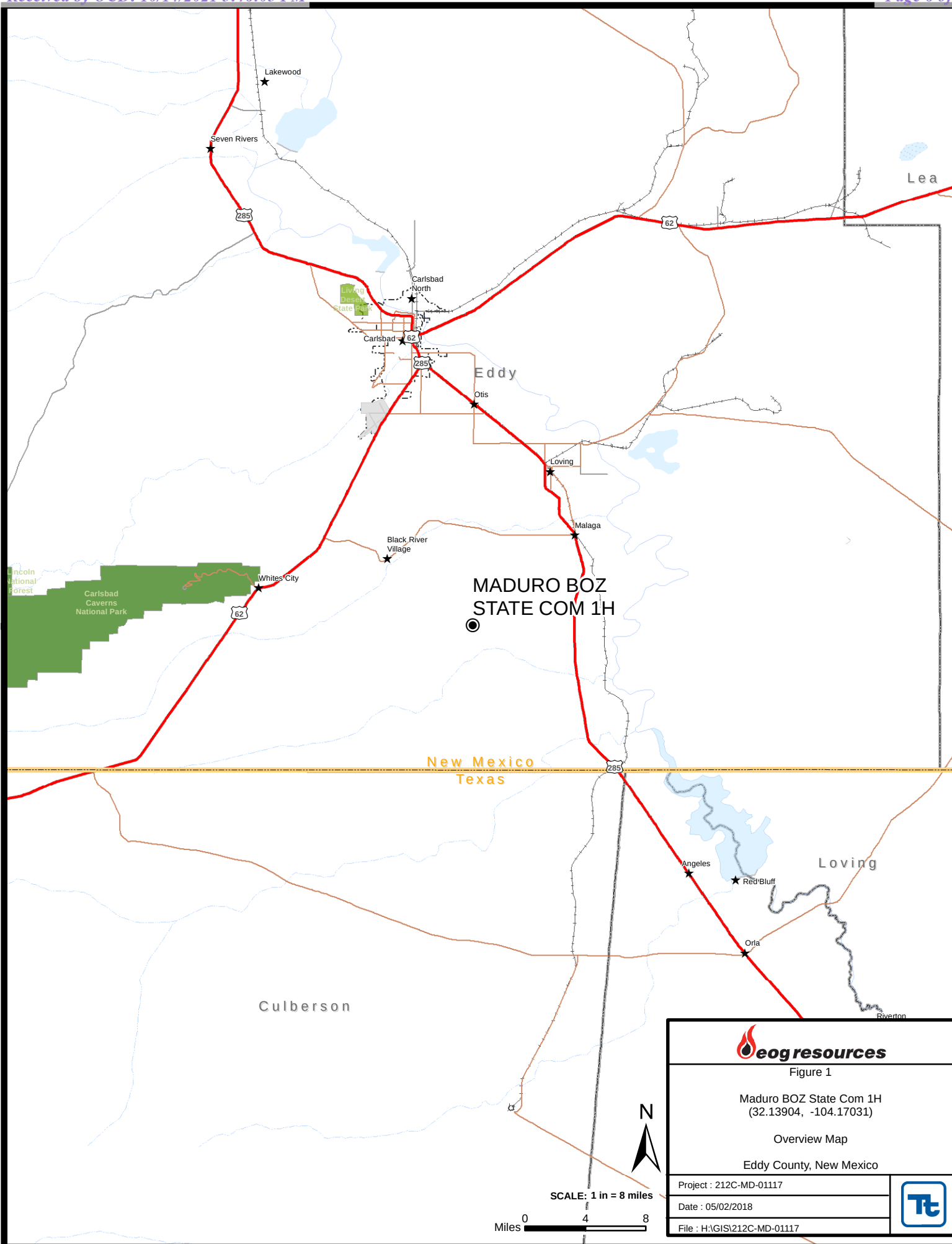
Brittany Long,
Environmental Scientist/Biologist

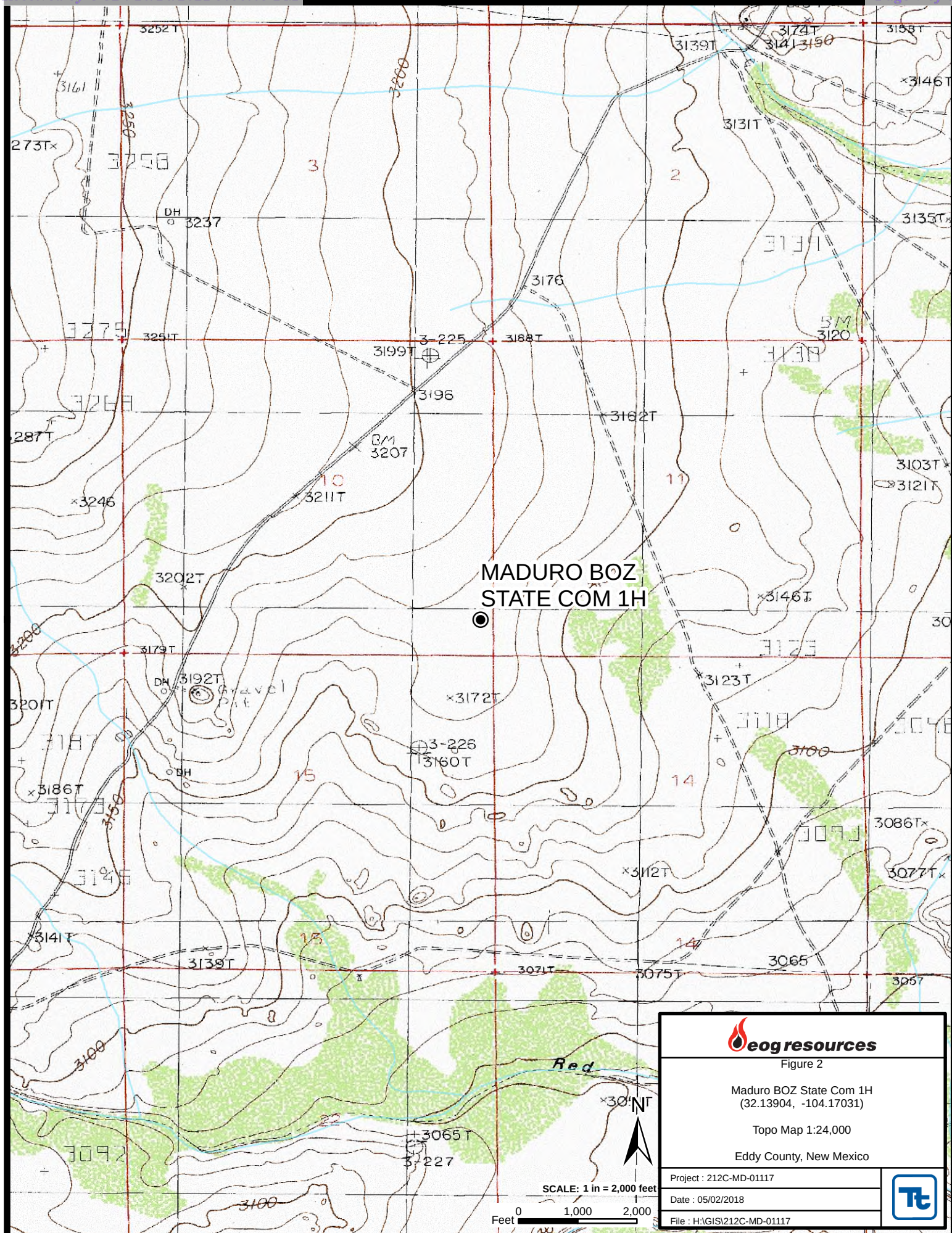


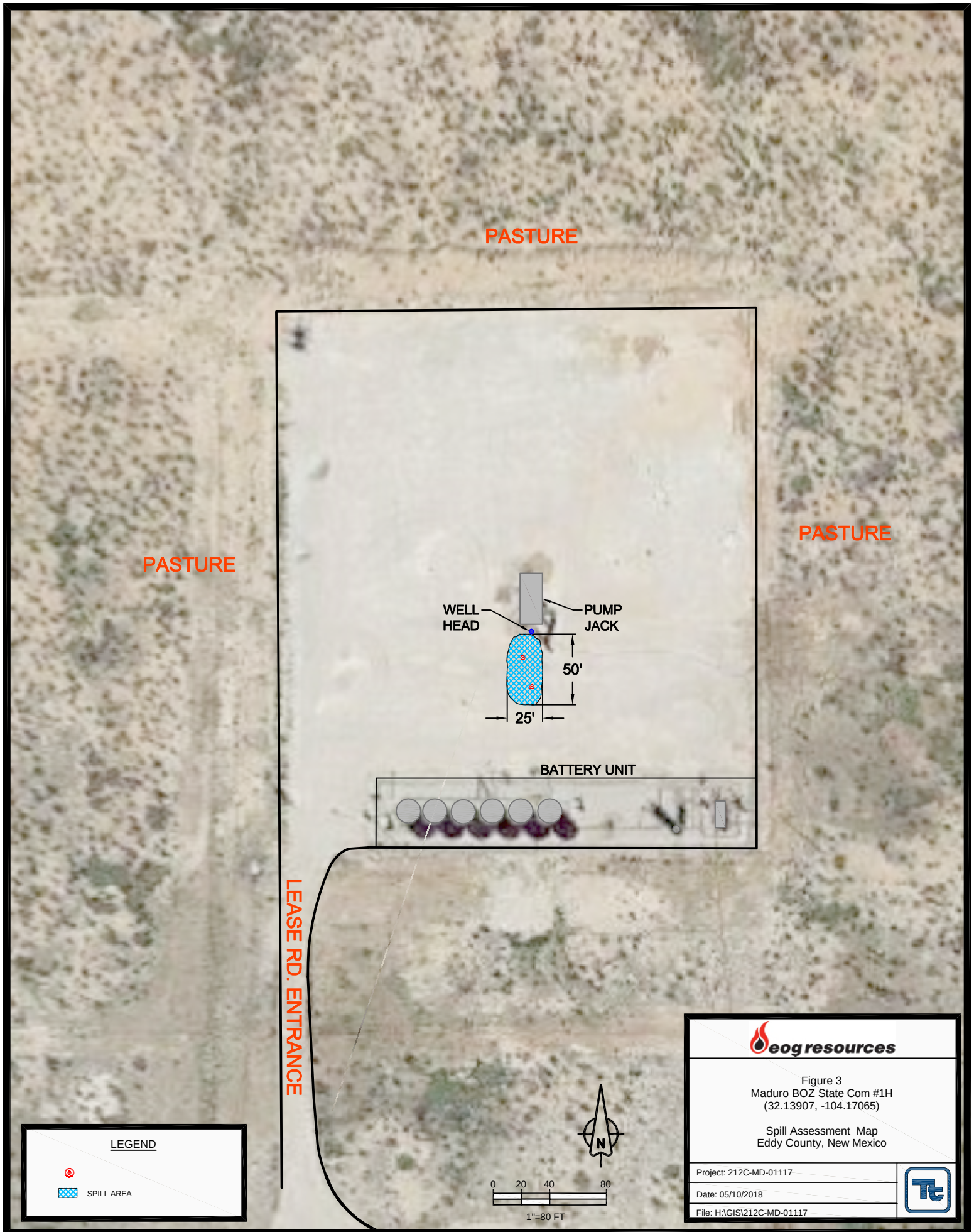
Clair Gonzales,
Senior Project Manager

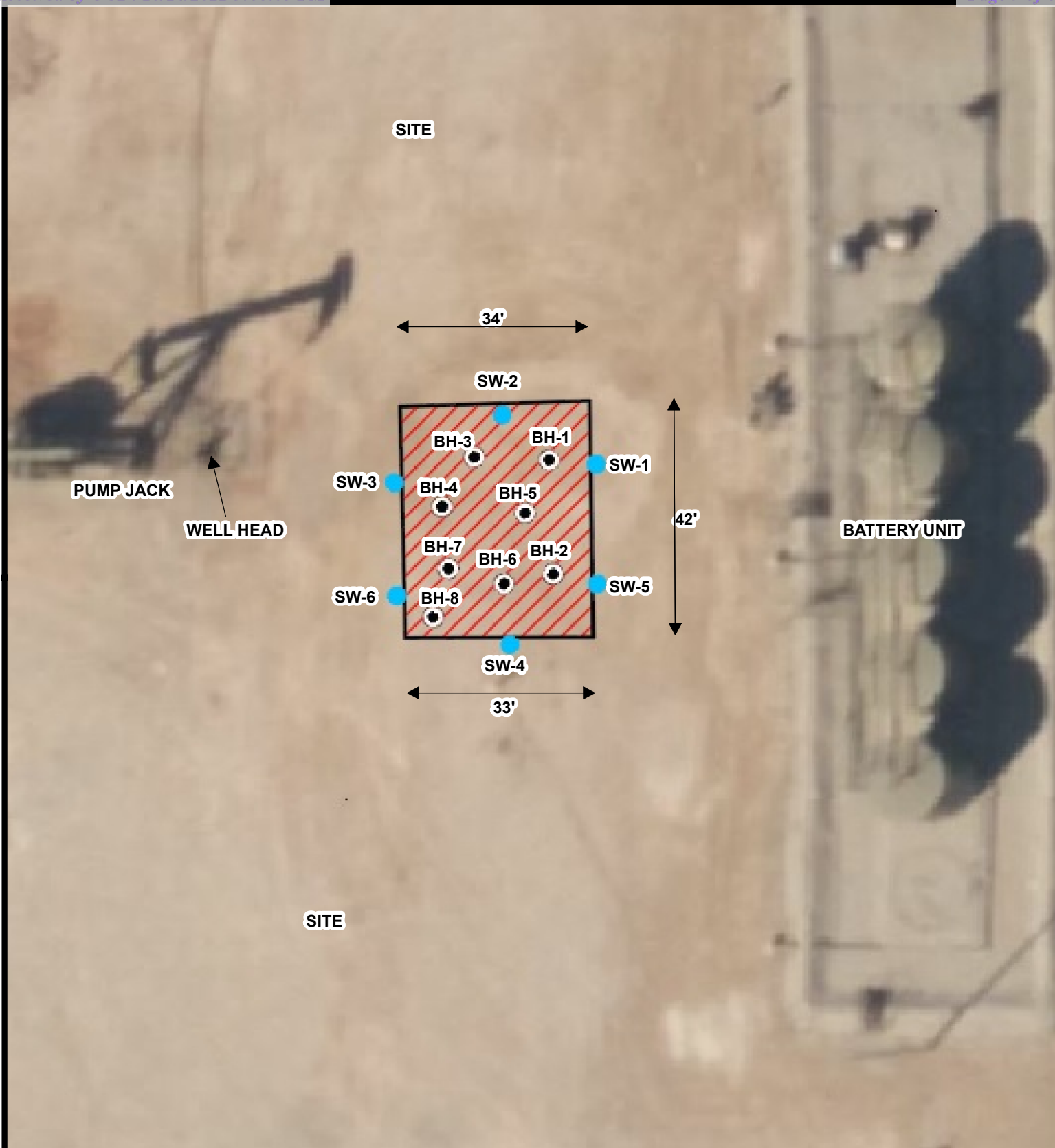
cc: James Kennedy – EOG
Todd Wells - EOG

Figures









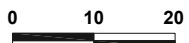
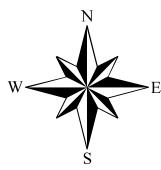
5.0' EXCAVATED DEPTH



SIDEWALL SAMPLE LOCATIONS



BOTTOM HOLE SAMPLE LOCATIONS



Approximate Scale in Feet

EXCAVATION AREA & DEPTH MAP
MADURO BOZ STATE COM #1H
Property Located at coordinates 32.13904, -104.17031
EDDY COUNTY, NEW MEXICO



Project #: 212C-MD-02327
Date: 10/08/20
Drawn By: DN

FIGURE
4

Tables

Table 1
EOG Resources
Maduro BOZ State Com #1H
Wellhead Area
Eddy County, New Mexico

Sample ID	Sample Date	Excavtion Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
BH-1	10/5/2020	5.0'	X	-	<50.1	<50.1	<50.1	<50.1	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	56.3
BH-2	10/5/2020	5.0'	X	-	<50.2	<50.2	<50.2	<50.2	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	477
BH-3	10/5/2020	5.0'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	394
BH-4	10/5/2020	5.0'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	143
BH-5	10/5/2020	5.0'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	150
BH-6	10/5/2020	5.0'	X	-	<50.2	<50.2	<50.2	<50.2	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	297
BH-7	10/5/2020	5.0'	X	-	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	250
BH-8	10/5/2020	5.0'	X	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	295
SW-1	10/5/2020	-	X	-	<50.1	<50.1	<50.1	<50.1	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	118
SW-2	10/5/2020	-	X	-	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	128
SW-3	10/5/2020	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	331
SW-4	10/5/2020	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	100
SW-5	10/5/2020	-	X	-	<50.2	<50.2	<50.2	<50.2	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	52.3
SW-6	10/5/2020	-	X	-	<50.3	<50.3	<50.3	<50.3	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	265

(-) Not Analyzed

Photos

EOG Resources
Maduro BOZ State Com #1H
Eddy County, New Mexico



TETRA TECH



View of Remediation Activities – View Northwest



View of Remediation Activities – View Southeast

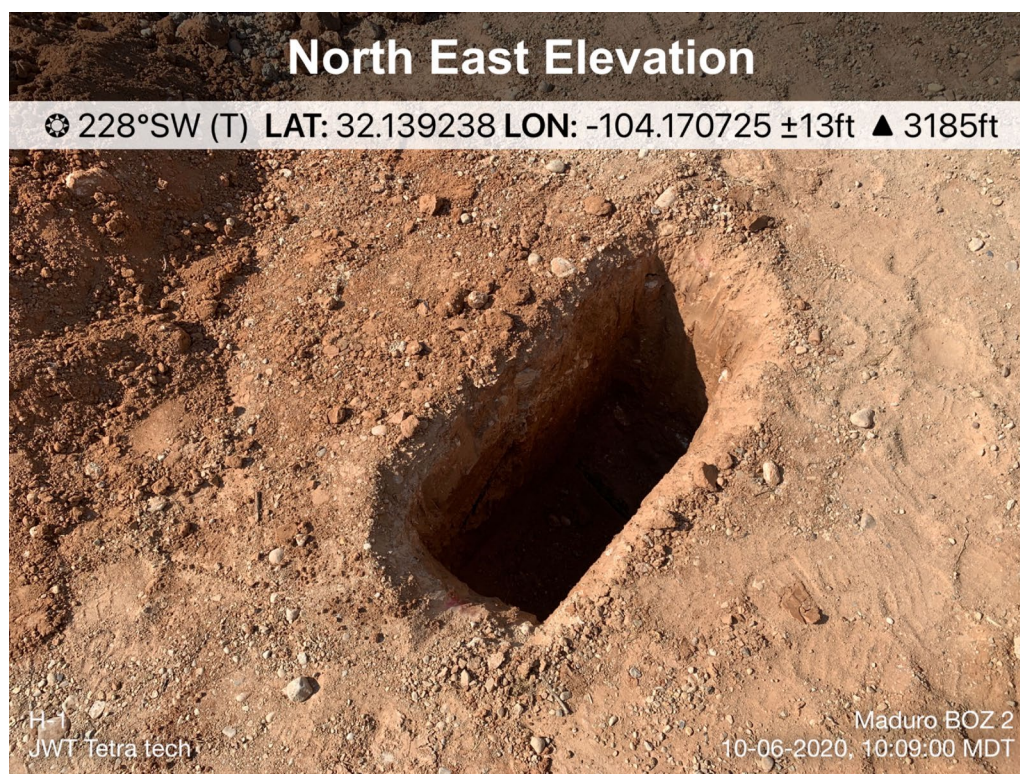
EOG Resources
Maduro BOZ State Com #1H
Eddy County, New Mexico



TETRA TECH



View of Remediation – View Northwest



View of Installed Trench– View Northeast

Appendix A

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

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

NM OIL CONSERVATION

ARTESIA DISTRICT

FEB 18 2015

Form C-141
Revised August 8, 2011Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

RECEIVED

Release Notification and Corrective Action

NAB1505034171

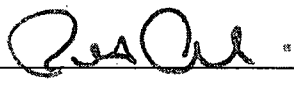
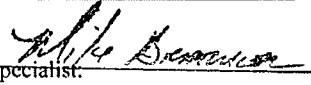
Name of Company Yates Petroleum Corporation		OGRID Number 25575	Contact Robert Asher	☒ Initial Report ☐ Final Report
Address 104 S. 4 th Street		Telephone No. 575-748-1471		
Facility Name Maduro BOZ State #1H		Facility Type Battery		
Surface Owner State		Mineral Owner State	API No. 30-015-37537	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	10	25S	27E	660	South	330	East	Eddy

Latitude 32.13904 Longitude 104.17031

NATURE OF RELEASE

Type of Release Crude Oil & Produced Water	Volume of Release 1 B/O & 15 B/PW	Volume Recovered 1 B/O & 14 B/PW
Source of Release Stuffing Box	Date and Hour of Occurrence 2/4/2015; AM	Date and Hour of Discovery 2/4/2015; AM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Mike Bratcher/NMOCD II	
By Whom? Robert Asher/Yates Petroleum Corporation	Date and Hour 2/5/2015; AM (Email)	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.* The packing blew out on the stuffing box, causing the release. Vacuum truck(s) and roustabout crews were called.		
Describe Area Affected and Cleanup Action Taken.* An approximate area of 50' X 25'. The packing on the stuffing box was repaired and the released fluid was recovered using a vacuum truck. Impacted soils excavated/hailed to a NMOCD approved facility. Vertical and horizontal delineation samples outside of battery will be taken and analysis ran for TPH & BTEX (chlorides for documentation). If initial analytical results for TPH & BTEX are under RRAL's a Final Report, C-141 will be submitted to the OCD requesting closure. If the analytical results are above the RRAL a work plan will be submitted to the OCD. Depth to Ground Water: 50-99' (approximately 55', per ChevronTexaco Trend Map), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 10.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Robert Asher	Signed By  Approved by Environmental Specialist:	
Title: NM Environmental Regulatory Supervisor	Approval Date: 2/19/15	Expiration Date: N/A
E-mail Address: boba@yatespetroleum.com	Conditions of Approval: Remediation per O.C.D. Rules & Guidelines Attached ☐ NO REMEDIATION PROPOSAL NO	
Date: February 18, 2015	Phone: 575-748-4217	

* Attach Additional Sheets If Necessary

LATER THAN: 3/19/15

2RP-2826

Bratcher, Mike, EMNRD

From: Tanna Adams <TCArms@yatespetroleum.com>
Sent: Wednesday, February 18, 2015 9:39 AM
To: Bratcher, Mike, EMNRD
Cc: Bob Asher; Patterson, Heather, EMNRD
Subject: Maduro BOZ State #1H
Attachments: Maduro BOZ State #1H_Initial_020415.pdf

Mr. Bratcher,

Please find attached the C141 Initial for the below listed location:

Maduro BOZ State #1H
30-015-37537
Section 10, T25S-R27E
660 FSL & 330 FEL
Eddy County, New Mexico

Thank you,

Tanna Adams
Yates Petroleum Corporation
Environmental Tech
Environmental Department
TCArms@yatespetroleum.com

This message may contain confidential information and is intended for the named recipient only. If you are not the intended recipient you are notified that disclosing, copying, distributing or taking any action in reliance on the contents of this information is strictly prohibited. E-mail transmission cannot be guaranteed to be secure or error-free as information could be intercepted, corrupted, lost, destroyed, arrive late or incomplete, or contain viruses. The sender therefore does not accept liability for any errors or omissions in the contents of this message, which arise as a result of e-mail transmission. If verification is required please request a hard-copy version.

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?	_____ (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.

State of New Mexico
Oil Conservation Division

Page 4

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: _____ Title: _____

Signature: James F. Kennedy Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ 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: _____ Title: _____

Signature: James F. Kennedy Date: _____

email: _____ Telephone: _____

OCD Only

Received by: OCD Date: 10/14/2021

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: Ashley Maxwell Date: 12/15/2022

Printed Name: Ashley Maxwell Title: Environmental Specialist

Appendix B



[USGS Home](#)
[Contact USGS](#)
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National Water Information System: Mapper

[Help](#) [Info](#)

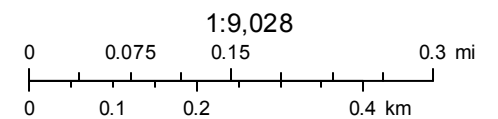


Site Information

New Mexico NFHL Data



October 7, 2020



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



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

New Mexico

GO

Click to hide News Bulletins

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- [Full News](#)

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 320959104093001

Minimum number of levels = 1

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

USGS 320959104093001 25S.27E.02.21211

Eddy County, New Mexico

Latitude 32°09'59", Longitude 104°09'30" NAD27

Land-surface elevation 3,145.0 feet above NGVD29

This well is completed in the Azotea Tongue of Seven Rivers Formation (313AZOT) local aquifer.

Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1992-11-20	09:30 MST	m	31.03			2		S		U	A
1998-01-07		D	33.41			2		S		U	A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	S	Steel-tape measurement.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Accessibility FOIA Privacy Policies and Notices

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Title: Groundwater for New Mexico: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>

Page Contact Information: [New Mexico Water Data Maintainer](#)





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 02588	C	ED		3	4	3	33	25S	27E	575645	3549575*	81	19	62
C 03261 POD1	CUB	ED		3	2	1	20	25S	27E	574007	3554006*	351		
C 03262 POD1	CUB	ED		2	1	2	22	25S	27E	577837	3554244*	75		
C 03264 POD1	CUB	ED		2	1	2	02	25S	27E	579391	3559099*			
C 03938 POD1	CUB	ED		2	2	2	25	25S	27E	581482	3552616	21	12	9
C 04078 POD1	CUB	ED		3	4	1	33	25S	27E	575667	3550363	157	20	137
C 04079 POD1	CUB	ED		1	2	3	33	25S	27E	575658	3550092	226	20	206
C 04371 POD1	CUB	ED		3	3	4	26	25S	27E	579369	3551272	100	69	31

Average Depth to Water: **28 feet**

Minimum Depth: **12 feet**

Maximum Depth: **69 feet**

Record Count: 8

Basin/County Search:

County: Eddy

PLSS Search:

Township: 25S

Range: 27E

*UTM location was derived from PLSS - see Help

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

10/7/20 1:30 PM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER

High Karst
OG Resources
Maduro BOZ State Com #1H

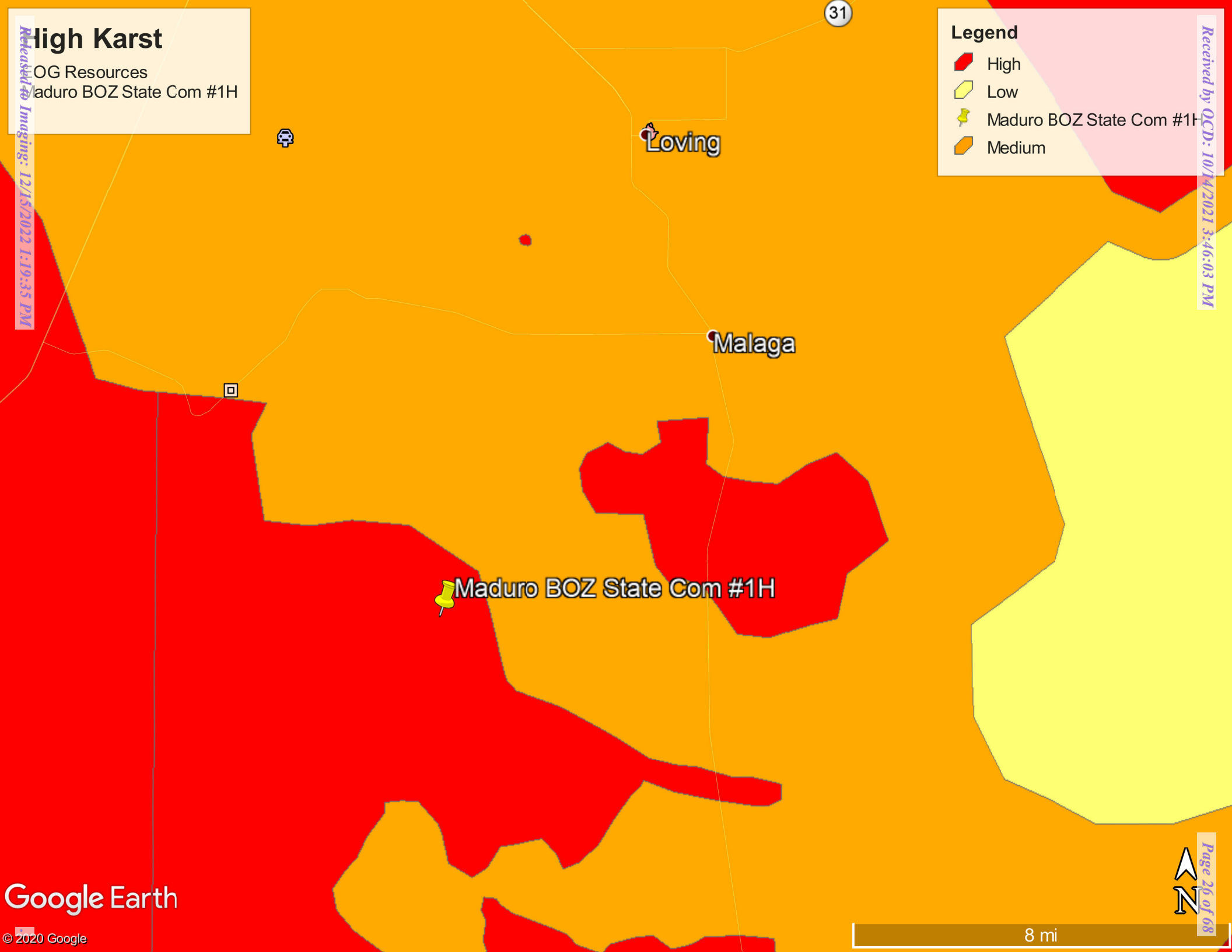
Legend

High

Low

Maduro BOZ State Com #1H

Medium



Water Well Data
Average Depth to Groundwater (ft)
EOG - Maduro BOZ State Com #1H
Eddy County, New Mexico

24 South			26 East		
6	63	5	4	3	2
7	250	8	450	9	10
18		17	16	15	14
650				30	13
19	20	21	22	23	24
				38	28
30	29	46	28	27	30
70				37	
31	32	111	33	34	35
	109				36

24 South			27 East		
6		5	4	3	2
7		8	17	9	10
		26	43		27
18	30	17	16	15	14
34					31
19	20	21	22	23	24
			70		
30	29	28	27	26	25
31	32	33	34	35	36

24 South			28 East		
6	70	5	30	4	30
7		8	50	9	10
				17	20
18		17	16	15	14
		42	29	18	52
19	20	21	22	23	24
		48			34
30	29	28	27	26	25
31	32	33	34	35	36

25 South			26 East		
6	125	5	4	3	2
7		8		45	11
60			45	10	12
18	17	16	15	14	13
19	20	21	22	23	24
			118		
30	29	28	27	26	25
31	32	33	34	35	36

25 South			27 East		
6		5	4	3	2
7		8	9	10	11
					92
18	17	16	15	14	13
19	20	21	22	23	24
	24		26		67
30	29	28	27	26	25
			16		12
31	32	33	34	35	36
		19			

25 South			28 East		
6		5	35	3	2
	59		32		1
7		8		10	11
					Site
18	17	16	15	14	13
67			48		
19	20	21	22	23	24
	96				
30	29	28	27	26	25
	15	90		40	
31	32	33	34	35	36
					40

26 South			26 East		
6		5	4	3	2
7		8	22	9	10
18	17	16	15	14	13
			31		
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

26 South			27 East		
6		5	4	3	2
	12				
7		8	9	10	11
18	17	16	15	14	13
19	20	21	22	23	24
			50		
30	29	28	27	26	25
31	32	33	34	35	36

26 South			28 East		
6		5	4	3	2
				21	120
7		8	9	10	11
					100
18	17	16	15	14	13
				120	56
19	20	21	22	23	24
			120		
30	29	28	27	26	25
31	32	33	34	35	36

88 New Mexico State Engineers Well Reports

105 USGS Well Reports

90 Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6)

90 Geology and Groundwater Resources of Eddy County, NM (Report 3)

34 NMOCD - Groundwater Data

123 Tetra Tech installed temporary wells and field water level

143 NMOCD Groundwater map well location

Appendix C



Analytical Report 674355

for

Tetra Tech- Midland

Project Manager: Mike Carmona

Maduro BOZ State COM 1H

212C-MD-02327

10.07.2020

Collected By: Client

**1089 N Canal Street
Carlsbad, NM 88220**

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 (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TN102385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)



10.07.2020

Project Manager: **Mike Carmona**

Tetra Tech- Midland

901 West Wall ST

Midland, TX 79701

Reference: Eurofins Xenco, LLC Report No(s): **674355**

Maduro BOZ State COM 1H

Project Address: Eddy County, New Mexico

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) 674355. 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. 674355 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,

A handwritten signature in black ink that reads "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

**Sample Cross Reference 674355****Tetra Tech- Midland, Midland, TX**

Maduro BOZ State COM 1H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH-1 (5')	S	10.05.2020 00:00	5 ft	674355-001
BH-2 (5')	S	10.05.2020 00:00	5 ft	674355-002
BH-3 (5')	S	10.05.2020 00:00	5 ft	674355-003
BH-4 (5')	S	10.05.2020 00:00	5 ft	674355-004
BH-5 (5')	S	10.05.2020 00:00	5 ft	674355-005
BH-6 (5')	S	10.05.2020 00:00	5 ft	674355-006
BH-7 (5')	S	10.05.2020 00:00	5 ft	674355-007
BH-8 (5')	S	10.05.2020 00:00	5 ft	674355-008
SW-1	S	10.05.2020 00:00		674355-009
SW-2	S	10.05.2020 00:00		674355-010
SW-3	S	10.05.2020 00:00		674355-011
SW-4	S	10.05.2020 00:00		674355-012
SW-5	S	10.05.2020 00:00		674355-013
SW-6	S	10.05.2020 00:00		674355-014



CASE NARRATIVE

Client Name: Tetra Tech- Midland

Project Name: Maduro BOZ State COM 1H

Project ID: 212C-MD-02327
Work Order Number(s): 674355

Report Date: 10.07.2020
Date Received: 10.06.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 674355

Tetra Tech- Midland, Midland, TX

Maduro BOZ State COM 1H

Sample Id: **BH-1 (5')**
Lab Sample Id: 674355-001

Matrix: Soil
Date Collected: 10.05.2020 00:00

Date Received: 10.06.2020 08:00
Sample Depth: 5 ft

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.06.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138962

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	56.3	50.1	mg/kg	10.06.2020 12:09		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DHE

Date Prep: 10.06.2020 11:30

% Moisture:
Basis: Wet Weight

Seq Number: 3138974

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	10.06.2020 14:05	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	10.06.2020 14:05	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	10.06.2020 14:05	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	10.06.2020 14:05	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	100	%	70-135	10.06.2020 14:05		
o-Terphenyl	84-15-1	105	%	70-135	10.06.2020 14:05		



Certificate of Analytical Results 674355

Tetra Tech- Midland, Midland, TX

Maduro BOZ State COM 1H

Sample Id: **BH-1 (5')**

Matrix: Soil

Date Received: 10.06.2020 08:00

Lab Sample Id: 674355-001

Date Collected: 10.05.2020 00:00

Sample Depth: 5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.06.2020 10:00

% Moisture:

Seq Number: 3139043

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.06.2020 12:49	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.06.2020 12:49	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.06.2020 12:49	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	10.06.2020 12:49	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.06.2020 12:49	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.06.2020 12:49	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.06.2020 12:49	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	97	%	70-130	10.06.2020 12:49		
4-Bromofluorobenzene	460-00-4	86	%	70-130	10.06.2020 12:49		



Certificate of Analytical Results 674355

Tetra Tech- Midland, Midland, TX

Maduro BOZ State COM 1H

Sample Id: **BH-2 (5')**
Lab Sample Id: 674355-002

Matrix: Soil
Date Collected: 10.05.2020 00:00

Date Received: 10.06.2020 08:00
Sample Depth: 5 ft

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.06.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138962

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	477	49.6	mg/kg	10.06.2020 12:16		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DHE

Date Prep: 10.06.2020 11:30

% Moisture:
Basis: Wet Weight

Seq Number: 3138974

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	10.06.2020 14:25	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	10.06.2020 14:25	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	10.06.2020 14:25	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	10.06.2020 14:25	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	104	%	70-135	10.06.2020 14:25		
o-Terphenyl	84-15-1	109	%	70-135	10.06.2020 14:25		



Certificate of Analytical Results 674355

Tetra Tech- Midland, Midland, TX

Maduro BOZ State COM 1H

Sample Id: **BH-2 (5')**

Matrix: Soil

Date Received: 10.06.2020 08:00

Lab Sample Id: 674355-002

Date Collected: 10.05.2020 00:00

Sample Depth: 5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.06.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3139043

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	10.06.2020 13:12	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	10.06.2020 13:12	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	10.06.2020 13:12	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	10.06.2020 13:12	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	10.06.2020 13:12	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	10.06.2020 13:12	U	1
Total BTEX		<0.00198	0.00198	mg/kg	10.06.2020 13:12	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	85	%	70-130	10.06.2020 13:12		
1,4-Difluorobenzene	540-36-3	99	%	70-130	10.06.2020 13:12		



Certificate of Analytical Results 674355

Tetra Tech- Midland, Midland, TX

Maduro BOZ State COM 1H

Sample Id: **BH-3 (5')**
Lab Sample Id: 674355-003

Matrix: Soil
Date Collected: 10.05.2020 00:00

Date Received: 10.06.2020 08:00
Sample Depth: 5 ft

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.06.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138962

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	394	49.8	mg/kg	10.06.2020 12:24		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DHE

Date Prep: 10.06.2020 11:30

% Moisture:
Basis: Wet Weight

Seq Number: 3138974

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.06.2020 14:46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.06.2020 14:46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.06.2020 14:46	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.06.2020 14:46	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	103	%	70-135	10.06.2020 14:46		
o-Terphenyl	84-15-1	108	%	70-135	10.06.2020 14:46		



Certificate of Analytical Results 674355

Tetra Tech- Midland, Midland, TX

Maduro BOZ State COM 1H

Sample Id: **BH-3 (5')**
Lab Sample Id: 674355-003

Matrix: Soil
Date Collected: 10.05.2020 00:00

Date Received: 10.06.2020 08:00
Sample Depth: 5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.06.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3139043

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.06.2020 13:34	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.06.2020 13:34	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.06.2020 13:34	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	10.06.2020 13:34	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.06.2020 13:34	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.06.2020 13:34	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.06.2020 13:34	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	101	%	70-130	10.06.2020 13:34		
4-Bromofluorobenzene	460-00-4	87	%	70-130	10.06.2020 13:34		



Certificate of Analytical Results 674355

Tetra Tech- Midland, Midland, TX

Maduro BOZ State COM 1H

Sample Id: **BH-4 (5')**
Lab Sample Id: 674355-004

Matrix: Soil
Date Collected: 10.05.2020 00:00

Date Received: 10.06.2020 08:00
Sample Depth: 5 ft

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.06.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138962

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	143	49.7	mg/kg	10.06.2020 12:31		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DHE

Date Prep: 10.06.2020 11:30

% Moisture:
Basis: Wet Weight

Seq Number: 3138974

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.06.2020 15:06	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.06.2020 15:06	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.06.2020 15:06	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.06.2020 15:06	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	107	%	70-135	10.06.2020 15:06		
o-Terphenyl	84-15-1	108	%	70-135	10.06.2020 15:06		



Certificate of Analytical Results 674355

Tetra Tech- Midland, Midland, TX

Maduro BOZ State COM 1H

Sample Id: **BH-4 (5')**
Lab Sample Id: 674355-004

Matrix: Soil
Date Collected: 10.05.2020 00:00

Date Received: 10.06.2020 08:00
Sample Depth: 5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.06.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3139043

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	10.06.2020 13:57	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	10.06.2020 13:57	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	10.06.2020 13:57	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	10.06.2020 13:57	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	10.06.2020 13:57	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	10.06.2020 13:57	U	1
Total BTEX		<0.00198	0.00198	mg/kg	10.06.2020 13:57	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	89	%	70-130	10.06.2020 13:57		
1,4-Difluorobenzene	540-36-3	100	%	70-130	10.06.2020 13:57		



Certificate of Analytical Results 674355

Tetra Tech- Midland, Midland, TX

Maduro BOZ State COM 1H

Sample Id: **BH-5 (5')**
Lab Sample Id: 674355-005

Matrix: Soil
Date Collected: 10.05.2020 00:00

Date Received: 10.06.2020 08:00
Sample Depth: 5 ft

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.06.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138962

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	150	49.7	mg/kg	10.06.2020 12:54		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DHE

Date Prep: 10.06.2020 11:30

% Moisture:
Basis: Wet Weight

Seq Number: 3138974

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.06.2020 15:26	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.06.2020 15:26	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.06.2020 15:26	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.06.2020 15:26	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	113	%	70-135	10.06.2020 15:26		
o-Terphenyl	84-15-1	108	%	70-135	10.06.2020 15:26		



Certificate of Analytical Results 674355

Tetra Tech- Midland, Midland, TX

Maduro BOZ State COM 1H

Sample Id: **BH-5 (5')**
Lab Sample Id: 674355-005

Matrix: Soil
Date Collected: 10.05.2020 00:00

Date Received: 10.06.2020 08:00
Sample Depth: 5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.06.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3139043

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.06.2020 14:19	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.06.2020 14:19	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.06.2020 14:19	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	10.06.2020 14:19	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	10.06.2020 14:19	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	10.06.2020 14:19	U	1
Total BTEX		<0.00201	0.00201	mg/kg	10.06.2020 14:19	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	87	%	70-130	10.06.2020 14:19		
1,4-Difluorobenzene	540-36-3	100	%	70-130	10.06.2020 14:19		



Certificate of Analytical Results 674355

Tetra Tech- Midland, Midland, TX

Maduro BOZ State COM 1H

Sample Id: **BH-6 (5')**
Lab Sample Id: 674355-006

Matrix: Soil
Date Collected: 10.05.2020 00:00

Date Received: 10.06.2020 08:00
Sample Depth: 5 ft

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.06.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138962

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	297	50.3	mg/kg	10.06.2020 13:16		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DHE

Date Prep: 10.06.2020 11:30

% Moisture:
Basis: Wet Weight

Seq Number: 3138974

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	10.06.2020 15:46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	10.06.2020 15:46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	10.06.2020 15:46	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	10.06.2020 15:46	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	108	%	70-135	10.06.2020 15:46		
o-Terphenyl	84-15-1	105	%	70-135	10.06.2020 15:46		



Certificate of Analytical Results 674355

Tetra Tech- Midland, Midland, TX

Maduro BOZ State COM 1H

Sample Id: **BH-6 (5')**

Matrix: Soil

Date Received: 10.06.2020 08:00

Lab Sample Id: 674355-006

Date Collected: 10.05.2020 00:00

Sample Depth: 5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.06.2020 10:00

% Moisture:

Seq Number: 3139043

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.06.2020 14:42	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.06.2020 14:42	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.06.2020 14:42	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	10.06.2020 14:42	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.06.2020 14:42	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.06.2020 14:42	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.06.2020 14:42	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	70-130	10.06.2020 14:42		
4-Bromofluorobenzene	460-00-4	86	%	70-130	10.06.2020 14:42		



Certificate of Analytical Results 674355

Tetra Tech- Midland, Midland, TX

Maduro BOZ State COM 1H

Sample Id: **BH-7 (5')**
Lab Sample Id: 674355-007

Matrix: Soil
Date Collected: 10.05.2020 00:00

Date Received: 10.06.2020 08:00
Sample Depth: 5 ft

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.06.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138962

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	250	50.5	mg/kg	10.06.2020 13:24		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DHE

Date Prep: 10.06.2020 11:30

% Moisture:
Basis: Wet Weight

Seq Number: 3138974

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	10.06.2020 16:26	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	10.06.2020 16:26	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	10.06.2020 16:26	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	10.06.2020 16:26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	10.06.2020 16:26	
o-Terphenyl	84-15-1	103	%	70-135	10.06.2020 16:26	



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Tetra Tech- Midland, Midland, TX

Maduro BOZ State COM 1H

Sample Id: **BH-7 (5')**
Lab Sample Id: 674355-007

Matrix: Soil
Date Collected: 10.05.2020 00:00

Date Received: 10.06.2020 08:00
Sample Depth: 5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.06.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3139043

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.06.2020 15:04	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.06.2020 15:04	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.06.2020 15:04	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	10.06.2020 15:04	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.06.2020 15:04	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.06.2020 15:04	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.06.2020 15:04	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	70-130	10.06.2020 15:04		
4-Bromofluorobenzene	460-00-4	87	%	70-130	10.06.2020 15:04		



Certificate of Analytical Results 674355

Tetra Tech- Midland, Midland, TX

Maduro BOZ State COM 1H

Sample Id: **BH-8 (5')**
Lab Sample Id: 674355-008

Matrix: Soil
Date Collected: 10.05.2020 00:00

Date Received: 10.06.2020 08:00
Sample Depth: 5 ft

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.06.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138962

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	295	50.0	mg/kg	10.06.2020 13:31		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DHE

Date Prep: 10.06.2020 11:30

% Moisture:
Basis: Wet Weight

Seq Number: 3138974

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	10.06.2020 16:46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	10.06.2020 16:46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	10.06.2020 16:46	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	10.06.2020 16:46	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	108	%	70-135	10.06.2020 16:46		
o-Terphenyl	84-15-1	105	%	70-135	10.06.2020 16:46		



Certificate of Analytical Results 674355

Tetra Tech- Midland, Midland, TX

Maduro BOZ State COM 1H

Sample Id: **BH-8 (5')**
Lab Sample Id: 674355-008

Matrix: Soil
Date Collected: 10.05.2020 00:00

Date Received: 10.06.2020 08:00
Sample Depth: 5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.06.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3139043

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.06.2020 15:27	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.06.2020 15:27	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.06.2020 15:27	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	10.06.2020 15:27	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.06.2020 15:27	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.06.2020 15:27	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.06.2020 15:27	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	83	%	70-130	10.06.2020 15:27		
1,4-Difluorobenzene	540-36-3	99	%	70-130	10.06.2020 15:27		



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Tetra Tech- Midland, Midland, TX

Maduro BOZ State COM 1H

Sample Id: **SW-1**
Lab Sample Id: 674355-009

Matrix: Soil
Date Collected: 10.05.2020 00:00

Date Received: 10.06.2020 08:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.06.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138962

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	118	49.7	mg/kg	10.06.2020 13:38		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DHE

Date Prep: 10.06.2020 11:30

% Moisture:
Basis: Wet Weight

Seq Number: 3138974

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	10.06.2020 17:06	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	10.06.2020 17:06	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	10.06.2020 17:06	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	10.06.2020 17:06	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	109	%	70-135	10.06.2020 17:06		
o-Terphenyl	84-15-1	106	%	70-135	10.06.2020 17:06		



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Tetra Tech- Midland, Midland, TX

Maduro BOZ State COM 1H

Sample Id: **SW-1**
Lab Sample Id: 674355-009

Matrix: Soil
Date Collected: 10.05.2020 00:00

Date Received: 10.06.2020 08:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.06.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3139043

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.06.2020 15:49	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.06.2020 15:49	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.06.2020 15:49	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	10.06.2020 15:49	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	10.06.2020 15:49	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	10.06.2020 15:49	U	1
Total BTEX		<0.00201	0.00201	mg/kg	10.06.2020 15:49	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	89	%	70-130	10.06.2020 15:49		
1,4-Difluorobenzene	540-36-3	100	%	70-130	10.06.2020 15:49		



Certificate of Analytical Results 674355

Tetra Tech- Midland, Midland, TX

Maduro BOZ State COM 1H

Sample Id: **SW-2**
Lab Sample Id: 674355-010

Matrix: Soil
Date Collected: 10.05.2020 00:00

Date Received: 10.06.2020 08:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.06.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138962

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	128	49.6	mg/kg	10.06.2020 13:46		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DHE

Date Prep: 10.06.2020 11:30

% Moisture:
Basis: Wet Weight

Seq Number: 3138974

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	10.06.2020 17:26	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	10.06.2020 17:26	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	10.06.2020 17:26	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	10.06.2020 17:26	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	112	%	70-135	10.06.2020 17:26		
o-Terphenyl	84-15-1	109	%	70-135	10.06.2020 17:26		



Certificate of Analytical Results 674355

Tetra Tech- Midland, Midland, TX

Maduro BOZ State COM 1H

Sample Id: **SW-2**
Lab Sample Id: 674355-010

Matrix: Soil
Date Collected: 10.05.2020 00:00

Date Received: 10.06.2020 08:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.06.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3139043

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.06.2020 16:12	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.06.2020 16:12	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.06.2020 16:12	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	10.06.2020 16:12	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.06.2020 16:12	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.06.2020 16:12	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.06.2020 16:12	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	70-130	10.06.2020 16:12		
4-Bromofluorobenzene	460-00-4	88	%	70-130	10.06.2020 16:12		



Certificate of Analytical Results 674355

Tetra Tech- Midland, Midland, TX

Maduro BOZ State COM 1H

Sample Id: **SW-3**
Lab Sample Id: 674355-011

Matrix: Soil
Date Collected: 10.05.2020 00:00

Date Received: 10.06.2020 08:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.06.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138962

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	331	99.8	mg/kg	10.06.2020 13:53		10

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DHE

Date Prep: 10.06.2020 11:30

% Moisture:
Basis: Wet Weight

Seq Number: 3138974

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.06.2020 17:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.06.2020 17:47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.06.2020 17:47	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.06.2020 17:47	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	108	%	70-135	10.06.2020 17:47		
o-Terphenyl	84-15-1	106	%	70-135	10.06.2020 17:47		



Certificate of Analytical Results 674355

Tetra Tech- Midland, Midland, TX

Maduro BOZ State COM 1H

Sample Id: **SW-3**
Lab Sample Id: 674355-011

Matrix: Soil
Date Collected: 10.05.2020 00:00

Date Received: 10.06.2020 08:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.06.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3139043

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.06.2020 17:30	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.06.2020 17:30	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.06.2020 17:30	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.06.2020 17:30	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.06.2020 17:30	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.06.2020 17:30	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.06.2020 17:30	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	85	%	70-130	10.06.2020 17:30		
1,4-Difluorobenzene	540-36-3	98	%	70-130	10.06.2020 17:30		



Certificate of Analytical Results 674355

Tetra Tech- Midland, Midland, TX

Maduro BOZ State COM 1H

Sample Id: **SW-4**
Lab Sample Id: 674355-012

Matrix: Soil
Date Collected: 10.05.2020 00:00

Date Received: 10.06.2020 08:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.06.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138962

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	100	49.8	mg/kg	10.06.2020 14:01		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DHE

Date Prep: 10.06.2020 11:30

% Moisture:
Basis: Wet Weight

Seq Number: 3138974

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.06.2020 18:07	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.06.2020 18:07	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.06.2020 18:07	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.06.2020 18:07	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	105	%	70-135	10.06.2020 18:07		
o-Terphenyl	84-15-1	104	%	70-135	10.06.2020 18:07		



Certificate of Analytical Results 674355

Tetra Tech- Midland, Midland, TX

Maduro BOZ State COM 1H

Sample Id: **SW-4**
Lab Sample Id: 674355-012

Matrix: Soil
Date Collected: 10.05.2020 00:00

Date Received: 10.06.2020 08:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.06.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3139043

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.06.2020 17:52	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.06.2020 17:52	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.06.2020 17:52	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	10.06.2020 17:52	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	10.06.2020 17:52	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	10.06.2020 17:52	U	1
Total BTEX		<0.00201	0.00201	mg/kg	10.06.2020 17:52	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	70-130	10.06.2020 17:52		
4-Bromofluorobenzene	460-00-4	88	%	70-130	10.06.2020 17:52		



Certificate of Analytical Results 674355

Tetra Tech- Midland, Midland, TX

Maduro BOZ State COM 1H

Sample Id: **SW-5**
Lab Sample Id: 674355-013

Matrix: Soil
Date Collected: 10.05.2020 00:00

Date Received: 10.06.2020 08:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.06.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138962

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	52.3	10.0	mg/kg	10.06.2020 14:08		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DHE

Date Prep: 10.06.2020 11:30

% Moisture:
Basis: Wet Weight

Seq Number: 3138974

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	10.06.2020 18:27	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	10.06.2020 18:27	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	10.06.2020 18:27	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	10.06.2020 18:27	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	108	%	70-135	10.06.2020 18:27		
o-Terphenyl	84-15-1	110	%	70-135	10.06.2020 18:27		



Certificate of Analytical Results 674355

Tetra Tech- Midland, Midland, TX

Maduro BOZ State COM 1H

Sample Id: **SW-5**
Lab Sample Id: 674355-013

Matrix: Soil
Date Collected: 10.05.2020 00:00

Date Received: 10.06.2020 08:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.06.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3139043

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.06.2020 18:15	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.06.2020 18:15	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.06.2020 18:15	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	10.06.2020 18:15	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.06.2020 18:15	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.06.2020 18:15	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.06.2020 18:15	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	70-130	10.06.2020 18:15		
4-Bromofluorobenzene	460-00-4	89	%	70-130	10.06.2020 18:15		



Certificate of Analytical Results 674355

Tetra Tech- Midland, Midland, TX

Maduro BOZ State COM 1H

Sample Id: **SW-6**
Lab Sample Id: 674355-014

Matrix: Soil
Date Collected: 10.05.2020 00:00

Date Received: 10.06.2020 08:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.06.2020 16:50

% Moisture:
Basis: Wet Weight

Seq Number: 3139046

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	265	49.9	mg/kg	10.06.2020 17:08		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DHE

Date Prep: 10.06.2020 11:30

% Moisture:
Basis: Wet Weight

Seq Number: 3138974

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	10.06.2020 18:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	10.06.2020 18:47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	10.06.2020 18:47	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	10.06.2020 18:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-135	10.06.2020 18:47	
o-Terphenyl	84-15-1	110	%	70-135	10.06.2020 18:47	



Certificate of Analytical Results 674355

Tetra Tech- Midland, Midland, TX

Maduro BOZ State COM 1H

Sample Id: **SW-6**
Lab Sample Id: 674355-014

Matrix: Soil
Date Collected: 10.05.2020 00:00

Date Received: 10.06.2020 08:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.06.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3139043

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.06.2020 18:37	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.06.2020 18:37	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.06.2020 18:37	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	10.06.2020 18:37	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	10.06.2020 18:37	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	10.06.2020 18:37	U	1
Total BTEX		<0.00201	0.00201	mg/kg	10.06.2020 18:37	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	70-130	10.06.2020 18:37		
4-Bromofluorobenzene	460-00-4	87	%	70-130	10.06.2020 18:37		

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



Tetra Tech- Midland
 Maduro BOZ State COM 1H

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3138962

Matrix: Solid

Prep Method: E300P

Date Prep: 10.06.2020

MB Sample Id: 7712712-1-BLK

LCS Sample Id: 7712712-1-BKS

LCSD Sample Id: 7712712-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	261	104	262	105	90-110	0	20	mg/kg	10.06.2020 10:55	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3139046

Matrix: Solid

Prep Method: E300P

Date Prep: 10.06.2020

MB Sample Id: 7712754-1-BLK

LCS Sample Id: 7712754-1-BKS

LCSD Sample Id: 7712754-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	261	104	262	105	90-110	0	20	mg/kg	10.06.2020 16:26	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3138962

Matrix: Soil

Prep Method: E300P

Date Prep: 10.06.2020

Parent Sample Id: 674352-001

MS Sample Id: 674352-001 S

MSD Sample Id: 674352-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	365	200	564	100	570	103	90-110	1	20	mg/kg	10.06.2020 11:12	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3138962

Matrix: Soil

Prep Method: E300P

Date Prep: 10.06.2020

Parent Sample Id: 674355-004

MS Sample Id: 674355-004 S

MSD Sample Id: 674355-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	143	198	338	98	341	100	90-110	1	20	mg/kg	10.06.2020 12:39	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3139046

Matrix: Soil

Prep Method: E300P

Date Prep: 10.06.2020

Parent Sample Id: 674318-001

MS Sample Id: 674318-001 S

MSD Sample Id: 674318-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1510	200	1700	95	1700	94	90-110	0	20	mg/kg	10.06.2020 16:44	

MS/MSD Percent Recovery
 Relative Percent Difference
 LCS/LCSD Recovery
 Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 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



Tetra Tech- Midland

Maduro BOZ State COM 1H

Analytical Method: TPH By SW8015 Mod

Seq Number: 3138974

Matrix: Solid

Prep Method: SW8015P

Date Prep: 10.06.2020

MB Sample Id: 7712719-1-BLK

LCS Sample Id: 7712719-1-BKS

LCSD Sample Id: 7712719-1-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)	<50.0	1000	906	91	894	89	70-135	1	35	mg/kg	10.06.2020 11:04	
Diesel Range Organics (DRO)	<50.0	1000	1010	101	1020	102	70-135	1	35	mg/kg	10.06.2020 11:04	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	104		111		111		70-135	%	10.06.2020 11:04
o-Terphenyl	101		101		105		70-135	%	10.06.2020 11:04

Analytical Method: TPH By SW8015 Mod

Seq Number: 3138974

Matrix: Solid

Prep Method: SW8015P

Date Prep: 10.06.2020

MB Sample Id: 7712719-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	10.06.2020 11:44	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3138974

Matrix: Soil

Prep Method: SW8015P

Date Prep: 10.06.2020

Parent Sample Id: 674352-001

MS Sample Id: 674352-001 S

MSD Sample Id: 674352-001 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)	<49.8	995	1140	115	1140	114	70-135	0	35	mg/kg	10.06.2020 12:25	
Diesel Range Organics (DRO)	<49.8	995	1330	134	1330	133	70-135	0	35	mg/kg	10.06.2020 12:25	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	132		131		70-135	%	10.06.2020 12:25
o-Terphenyl	121		121		70-135	%	10.06.2020 12:25

Analytical Method: BTEX by EPA 8021B

Seq Number: 3139043

Matrix: Solid

Prep Method: SW5035A

Date Prep: 10.06.2020

MB Sample Id: 7712707-1-BLK

LCS Sample Id: 7712707-1-BKS

LCSD Sample Id: 7712707-1-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	0.110	110	0.101	101	70-130	9	35	mg/kg	10.06.2020 10:47	
Toluene	<0.00200	0.100	0.105	105	0.0976	98	70-130	7	35	mg/kg	10.06.2020 10:47	
Ethylbenzene	<0.00200	0.100	0.0966	97	0.0909	91	71-129	6	35	mg/kg	10.06.2020 10:47	
m,p-Xylenes	<0.00400	0.200	0.194	97	0.183	92	70-135	6	35	mg/kg	10.06.2020 10:47	
o-Xylene	<0.00200	0.100	0.0965	97	0.0905	91	71-133	6	35	mg/kg	10.06.2020 10:47	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		97		97		70-130	%	10.06.2020 10:47
4-Bromofluorobenzene	84		84		88		70-130	%	10.06.2020 10:47

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
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

Tetra Tech- Midland Maduro BOZ State COM 1H

Analytical Method: BTEX by EPA 8021B

Seq Number: 3139043

Parent Sample Id: 674355-001

Matrix: Soil

MS Sample Id: 674355-001 S

Prep Method: SW5035A

Date Prep: 10.06.2020

MSD Sample Id: 674355-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00202	0.101	0.123	122	0.100	100	70-130	21	35	mg/kg	10.06.2020 11:31	
Toluene	<0.00202	0.101	0.120	119	0.0967	97	70-130	22	35	mg/kg	10.06.2020 11:31	
Ethylbenzene	<0.00202	0.101	0.112	111	0.0883	88	71-129	24	35	mg/kg	10.06.2020 11:31	
m,p-Xylenes	<0.00403	0.202	0.226	112	0.179	89	70-135	23	35	mg/kg	10.06.2020 11:31	
o-Xylene	<0.00202	0.101	0.109	108	0.0852	85	71-133	25	35	mg/kg	10.06.2020 11:31	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		98		70-130	%	10.06.2020 11:31
4-Bromofluorobenzene	90		87		70-130	%	10.06.2020 11:31

MS/MSD Percent Recovery
 Relative Percent Difference
 LCS/LCSD Recovery
 Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 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

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

901 West Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

674355

Client Name: EOG		Site Manager: Brittany Long	
Project Name: Maduro BOZ state COM 1H			
Project Location: Eddy County, New Mexico		Project #: 212C-MD-02327	
Invoice to: EOG - James Kennedy			
Receiving Laboratory: Xenco		Sampler Signature: John Thurston	
Comments:			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX	PRESERVATIVE METHOD					# CONTAINERS	FILTERED (Y/N)	ANALYSIS REQUEST (Circle or Specify Method No.)	
		DATE	TIME		WATER	SOIL	HCL	HNO ₃	ICE				None
	BH-1 (5')	10/5/2020		X			X			1	N	X	
	BH-2 (5')	10/5/2020		X			X			1	N	X	
	BH-3 (5')	10/5/2020		X			X			1	N	X	
	BH-4 (5')	10/5/2020		X			X			1	N	X	
	BH-5 (5')	10/5/2020		X			X			1	N	X	
	BH-6 (5')	10/5/2020		X			X			1	N	X	
	BH-7 (5')	10/5/2020		X			X			1	N	X	
	BH-8 (5')	10/5/2020		X			X			1	N	X	
	SW-1	10/5/2020		X			X			1	N	X	
	SW-2	10/5/2020		X			X			1	N	X	

Requested by: <i>[Signature]</i> Date: 10/6/20 Time: 0800 Received by: <i>[Signature]</i> Date: 10/6/20 Time: 08:00	Requested by: _____ Date: _____ Time: _____ Received by: _____ Date: _____ Time: _____
--	---

Requested by: _____ Date: _____ Time: _____ Received by: _____ Date: _____ Time: _____	Requested by: _____ Date: _____ Time: _____ Received by: _____ Date: _____ Time: _____
---	---

Sample Temperature: 3.0/3.0 REMARKS: ☐ STANDARD ☒ RUSH: Same Day 24 hr 48 hr 72 hr ☐ Rush Charges Authorized ☐ Special Report Limits or TRRP Report	(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____
---	--

ORIGINAL COPY

Analysis Request of Custody Record



Tetra Tech, Inc.

 901 West Wall Street, Ste 100
 Midland, Texas 79701
 Tel (432) 682-4559
 Fax (432) 682-3946

Page 2 of

1074355

Client Name: EOG		Site Manager: Brittany Long	
Project Name: Maduro BOZ state COM 1H		Project #: 212C-MD-02327	
Project Location: Eddy County, New Mexico		Invoice to: EOG - James Kennedy	
Receiving Laboratory: Xenco		Sampler Signature: John Thurston	
Comments:			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX	PRESERVATIVE METHOD					# CONTAINERS	FILTERED (Y/N)	ANALYSIS REQUEST (Circle or Specify Method No.)	
		DATE	TIME		WATER	SOIL	HCL	HNO ₃	ICE				None
	SW-3	10/5/2020			X			X			1	N	BTEX 8021B BTEX 8260B
	SW-4	10/5/2020			X			X			1	N	TPH TX1005 (Ext to C35)
	SW-5	10/5/2020			X			X			1	N	TPH 8015M (GRO - DRO - ORO - MRO)
	SW-6	10/5/2020			X			X			1	N	PAH 8270C
													Total Metals Ag As Ba Cd Cr Pb Se Hg
													TCLP Metals Ag As Ba Cd Cr Pb Se Hg
													TCLP Volatiles
													TCLP Semi Volatiles
													RCI
													GC/MS Vol. 8260B / 624
													GC/MS Semi. Vol. 8270C/625
													PCB's 8082 / 608
													NORM
													PLM (Asbestos)
													Chloride
													Chloride Sulfate TDS
													General Water Chemistry (see attached list)
													Anion/Cation Balance
													TPH 8015R
													Hold

Inquired by: <i>[Signature]</i>	Date: 10/6/20	Time: 0800	Received by: <i>[Signature]</i>	Date: 10/6/20	Time: 08:00
Inquired by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY	REMARKS:
☐ STANDARD ☒ RUSH: Same Day 24 hr 48 hr 72 hr ☐ Rush Charges Authorized ☐ Special Report Limits or TRRP Report	Sample Temperature 32/3.0 41M007 (Circle) HAND DELIVERED

ORIGINAL COPY

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Tetra Tech- Midland

Date/ Time Received: 10.06.2020 08.00.00 AM

Work Order #: 674355

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T_NM_007

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	3
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 Custody Seals intact on sample bottles?	Yes
#6 *Custody Seals Signed and dated?	Yes
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	No
#18 Water VOC samples have zero headspace?	N/A

Samples received in bulk containers.

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:



Cloe Clifton

Date: 10.06.2020

Checklist reviewed by:



Jessica Kramer

Date: 10.06.2020

District I

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

District II

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

District III

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

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 56147

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 56147
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	12/15/2022