Form C-141
Page 3

State of New Mexico
Oil Conservation Division

Incident ID	nRM2022554489
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?	52 (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	nRM2022554489
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: Chris Price Title: Area Manager

Signature: Chris Price Date: 12-18-20

email: cprice@targaresources.com Telephone: 575-602-6005

OCD Only

Received by: Cristina Eads Date: 12/28/2020

Form C-141
Page 5

State of New Mexico
Oil Conservation Division

Incident ID	nRM2022554489
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

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

Printed Name: Chris Price Title: Area Manager

Signature: Chris Price Date: 12-18-20

email: cprice@targaresources.com Telephone: 575-602-6005

OCD Only

Received by: Cristina Eads Date: 12/28/2020

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

Signature: Cristina Eads Date: 02/24/2021

Site Assessment Report and Proposed Remediation Workplan

Targa Midstream Services, LLC
Bagley 7-Inch
Lea County, New Mexico
Unit Letter H, Section 4, Township 12 South, Range 22 East
Latitude 33.310876 North, Longitude 103.612268 West
NMOCD Reference No. nRM2022554489

Prepared By:

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

Matthew Grieco

Joel W. Lowry

Midland • San Antonio • Lubbock • Lovington • Lafayette

TABLE OF CONTENTS

1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Targa Midstream Services, LLC, has prepared this Report for the Release Site known as the Bagley 7-Inch. Details of the release are summarized below:

Location of Release Source

Latitude: 33.310876 Longitude: -103.612268

Provided GPS are in WGS84 format.

Site Name:	Bagley 7-Inch	Site Type:	Pipeline
Date Release Discovered:	8/3/2020	API # (if applicable):	N/A

Unit Letter	Section	Township	Range	County
H	4	12S	22E	Lea

Surface Owner: [X] State [ ] Federal [ ] Tribal [ ] Private (Name _____)

Nature and Volume of Release

[ ] Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
[ ] Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water > 10,000 mg/L?	[ ] Yes [ ] No [ ] N/A
[ ] Condensate	Volume Released (bbls)	Volume Recovered (bbls)
[X] Natural Gas	Volume Released (Mcf) 218.8	Volume Recovered (Mcf) 0
[ ] Other (describe)	Volume/Weight Released	Volume/Weight Recovered

Cause of Release:

A leak was discovered on a Targa, 7-inch steel pipeline. This leak was the result of internal corrosion. Upon discovery of the leak Targa Resources isolated the leak until permanent repairs could be made. Targa determined that a section of pipe would be removed and replaced. During this event, Targa proceeded to isolate the section of pipe and replace the section of pipe with new pipe. After the line was verified to be safe to operate, Targa put the line back into service.

Initial Response

- [X] The source of the release has been stopped.
- [X] The impacted area has been secured to protect human health and the environment.
- [X] Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices
- [X] All free liquids and recoverable materials have been removed and managed appropriately.

Previously submitted portions of the NMOCD Form C-141 are available on the NMOCD Imaging System.

2.0 SITE CHARACTERIZATION

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half mile radius of the Release Site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. Depth to groundwater information is provided as Appendix A.

What is the shallowest depth to groundwater beneath the area affected by the release?	52 Ft.
Did the 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 any 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 the 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

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted on Figures 1, 2, 4 & 5.

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, inferred depth to groundwater, and NMOCD Siting Criteria, the NMOCD Closure Criteria and NMOCD Reclamation Standard for the Site are as follows:

Probable Depth to Groundwater	Constituent	Method	Closure Criteria	Reclamation Standard*
52 Ft.	Chloride	EPA 300.0 or SM4500 Cl B	10,000 mg/kg	600 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	2,500 mg/kg	100 mg/kg
	DRO + GRO	EPA SW-846 Method 8015M	1,000 mg/kg	-
	BTEX	EPA SW-846 Methods 8021b or 8260b	50 mg/kg	50 mg/kg
	Benzene	EPA SW-846 Methods 8021b or 8260b	10 mg/kg	10 mg/kg

* The NMOCD Reclamation Standard applies only to the top 4' of soil in non-production areas.

4.0 INITIAL SITE ASSESSMENT

On September 29, 2020, Etech conducted an initial site assessment. During the initial site assessment, a series of hand-augered soil bores were advanced within the release margins in an effort to determine the vertical extent of soil impacts. In addition, hand-augered soil bores were advanced at the inferred edges of the affected area in an effort to determine the horizontal extent of soil impacts. During the advancement of the hand-augered soil bores, field soil samples were collected and field-screened for the presence of Volatile Organic Compounds (VOCs) utilizing a Photoionization Detector (PID) and/or concentrations of chloride utilizing a Hach Quantab ® chloride test kit ("chloride test kit").

Based on field observations and field test data, ten (10) delineation soil samples (V1@3', V1@4', NH1@SURF, NH1@2', EH1@SURF, EH1@2', SH1@SURF, SH1@2', WH1@SURF, and WH1@2') were submitted to a certified commercial laboratory for analysis of BTEX, TPH and chloride. Laboratory analytical results indicated BTEX, TPH and chloride concentrations were below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples, with the exception of V1@3’ (1,350 mg/kg GRO+DRO), V1@4’ (6,250 mg/kg TPH), EH1@2’ (1,520 mg/kg Cl-), and SH1@2’ (1,450 mg/kg Cl-). Based on the laboratory analytical results, vertical and horizontal delineation was not achieved.

On November 13, 2020, Etech continued the initial site assessment. A test trench was advanced over sample point V1 in an effort to determine the vertical extent of soil impacts. In addition, hand-augered soil bores were advanced at the inferred edges of the affected area to the south and east in an effort to determine the horizontal extent of soil impacts. During the advancement of the test trench and hand-augered soil bores, field soil samples were collected and field-screened for the presence of VOCs utilizing a PID and/or concentrations of chloride utilizing a chloride test kit.

Based on field observations and field test data, five (5) delineation soil samples (#1 SOUTH 0-1', #2 SOUTH 1-2', #2 EAST 0-1', #2 EAST 1-2', and V 1 6') were submitted to the laboratory for analysis of BTEX, TPH and/or chloride. Based on laboratory analytical results, soil was not affected above the NMOCD Closure Criteria beyond six (6) feet below ground surface (bgs) and the horizontal extent of affected soil impacted above the NMOCD Closure Criteria was adequately defined.

A "Site & Sample Location Map" is provided as Figure 3. Field data and soil profile logs are provided in Appendix B. A soil chemistry table is provided as Table 1. Laboratory analytical reports are provided in Appendix C.

5.0 PROPOSED REMEDIATION PLAN

Based on laboratory analytical results, site characteristics and field observations made during the initial site assessment, Targa Midstream Services, LLC, proposes the following remediation activities designed to advance the Site toward an approved closure:

- Excavate impacted soil affected above the NMOCD Closure Criteria within the release margins to a depth of approximately six (6) feet bgs.
- Excavation sidewalls will be advanced horizontally until laboratory analytical results from sidewall soil samples indicate concentrations of chloride and TPH are below the NMOCD Reclamation Standard.
- The excavated soil will be temporarily stockpiled on-site and then transported to an NMOCD-approved disposal facility.
- Upon receiving laboratory analytical results from excavation confirmation soil samples, backfill the excavated area with locally sourced, non-impacted "like" material.
- Upon completion of remediation activities, a *Remediation Summary and Soil Closure Request* will be prepared detailing field activities and laboratory analytical results from confirmation soil samples.

6.0 SAMPLING PLAN

Upon completion of excavation activities, representative five-point composite excavation confirmation soil samples will be collected from the excavation sidewalls in each cardinal direction, representing no more than 50 linear feet. A minimum of one (1) representative five-point composite excavation confirmation soil sample will be collected from the base of the excavated area representing every 200 square feet. Additional, discrete grab samples will be collected from wet or visibly stained areas inferred to have been affected by the release, as necessary.

7.0 TIMELINE AND ESTIMATED VOLUME OF SOIL TO BE REMEDIATED

Remediation activities are expected to be completed within 90 days of receiving necessary approval(s) of the Site Assessment Summary and Proposed Remediation Plan. Based on laboratory analytical results, site characteristics and field observations made during the initial site assessment, it is estimated that approximately 590 cubic yards is in need of removal.

8.0 RESTORATION, RECLAMATION AND RE-VEGETATION PLAN

Areas affected by remediation and closure activities will be substantially restored to the condition that existed prior to the release, to the extent practicable. Excavated areas will be backfilled with locally sourced, non-impacted "like" material placed at or near original relative positions. The affected area will be contoured and compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable. Affected areas not on production pads and/or lease roads will be reseeded with an agency and/or landowner-approved seed mixture during the first favorable growing season following closure of the site.

9.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this Site Assessment Report and Proposed Remediation Plan to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents reference in the report and on oral statements made by certain individuals. Etech has not conducted an independent examination of the facts contained in referenced materials and statements. Etech has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Etech has prepared the report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Targa Midstream Services, LLC. Use of the information contained in this report is prohibited without the consent of Etech and/or Targa Midstream Services, LLC.

10.0 DISTRIBUTION

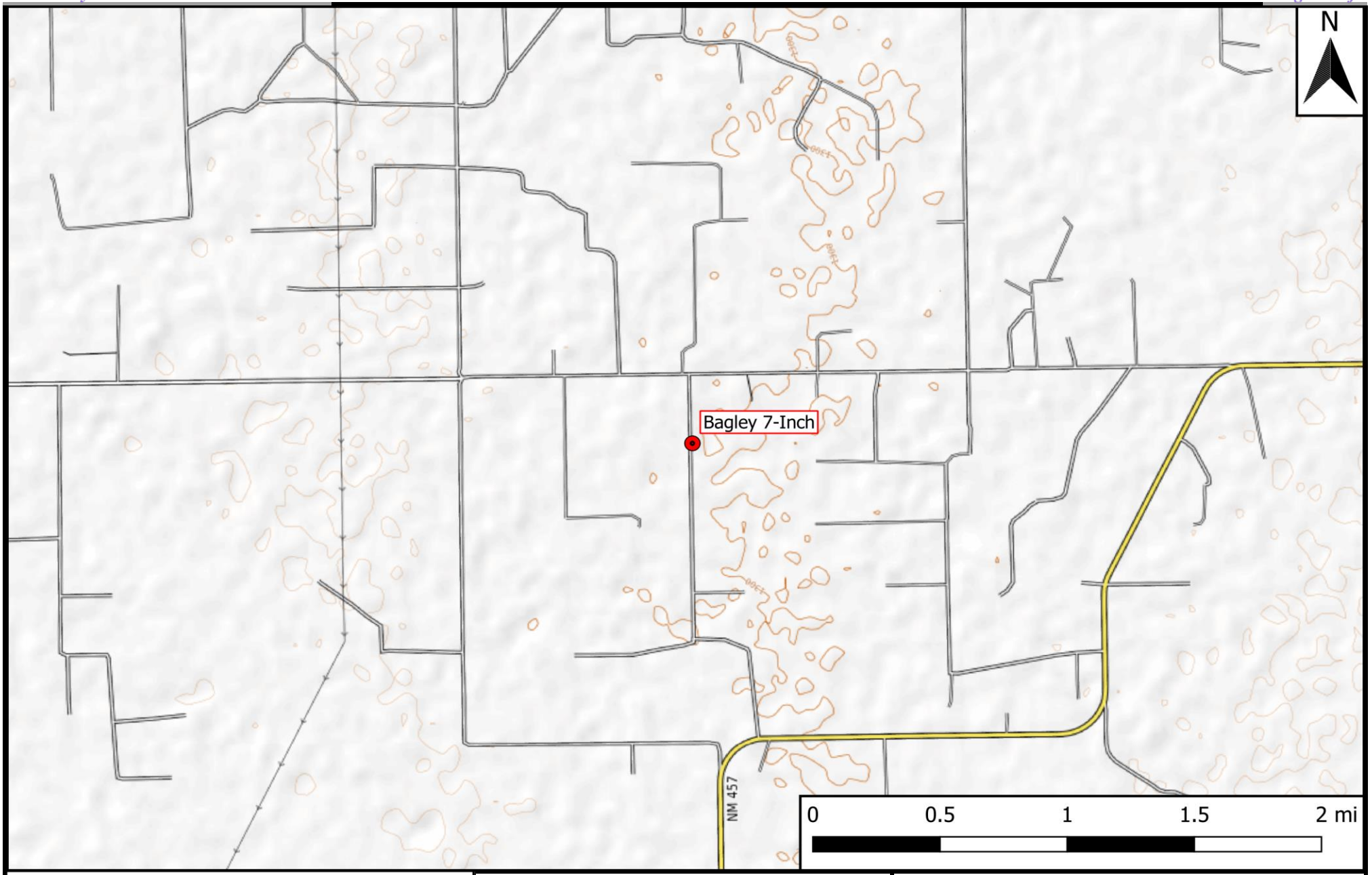
Targa Midstream Services, LLC
110 W 7th, Suite 2300
Tulsa, OK 74119

New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division, District 1
1220 South St. Francis Drive
Santa Fe, NM 87505

Hobbs Field Office
New Mexico State Land Office
2827 North Dal Paso Street
Suite 117
Hobbs, NM 88240

(Electronic Submission)

Figure 1
Topographic Map



Legend

Site Location

Figure 1

Topographic Map

Targa Midstream Services, LLC

Bagley 7-Inch

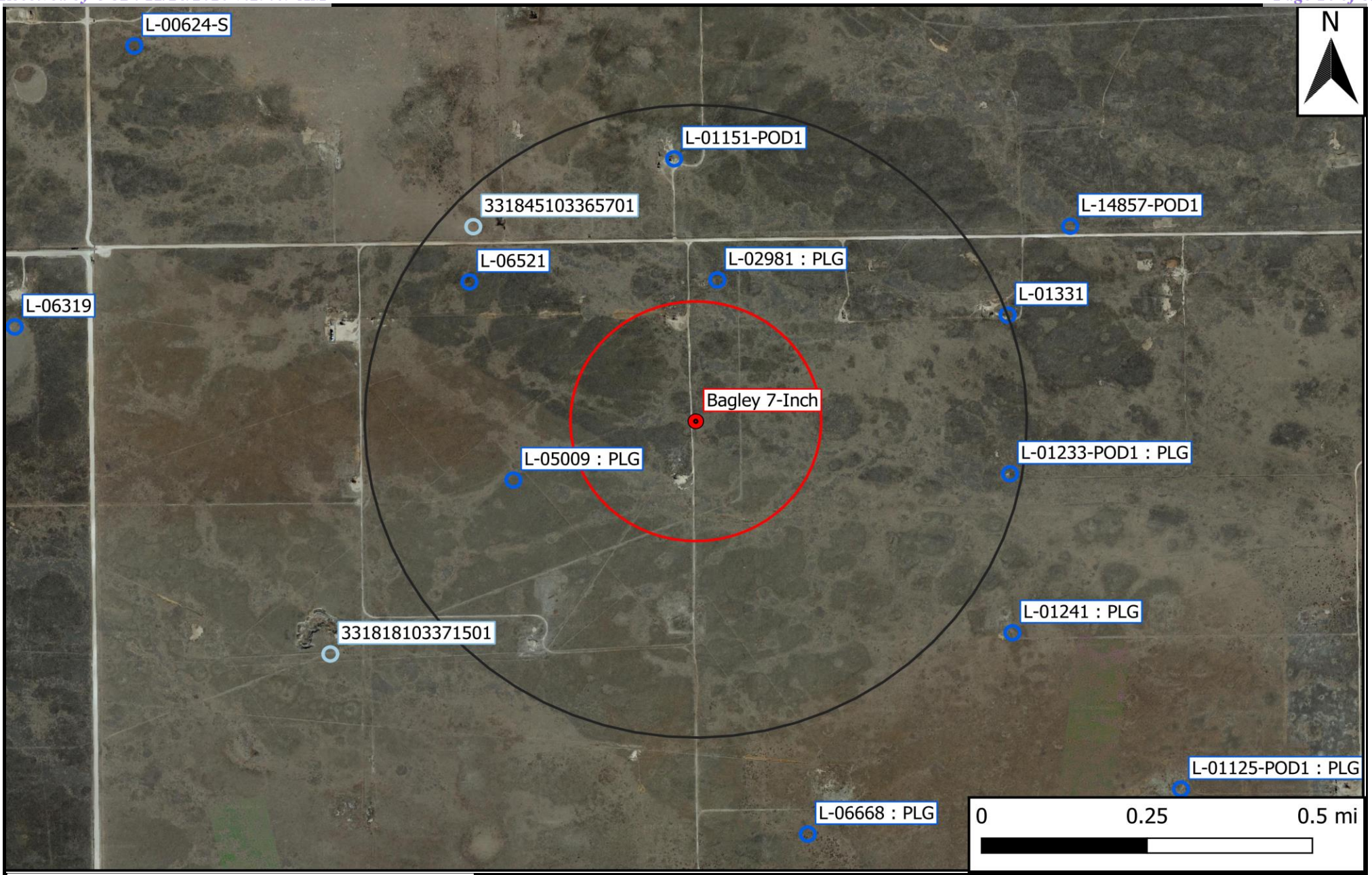
GPS: 33.310876, -103.612268

Lea County

eTECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 12/3/20

Figure 2
Aerial Proximity Map



Legend

- Site Location
- Well - NMOSE
- Well - USGS
- High Karst
- Potash Mine Workings
- 0.5 Mi Radius
- 1000 Ft Radius
- 1% Annual Flood Chance
- Lake/Freshwater Pond
- Emergent/Forested Wetlands
- Riverine

Figure 2

Aerial Map

Targa Midstream Services, LLC

Bagley 7-Inch

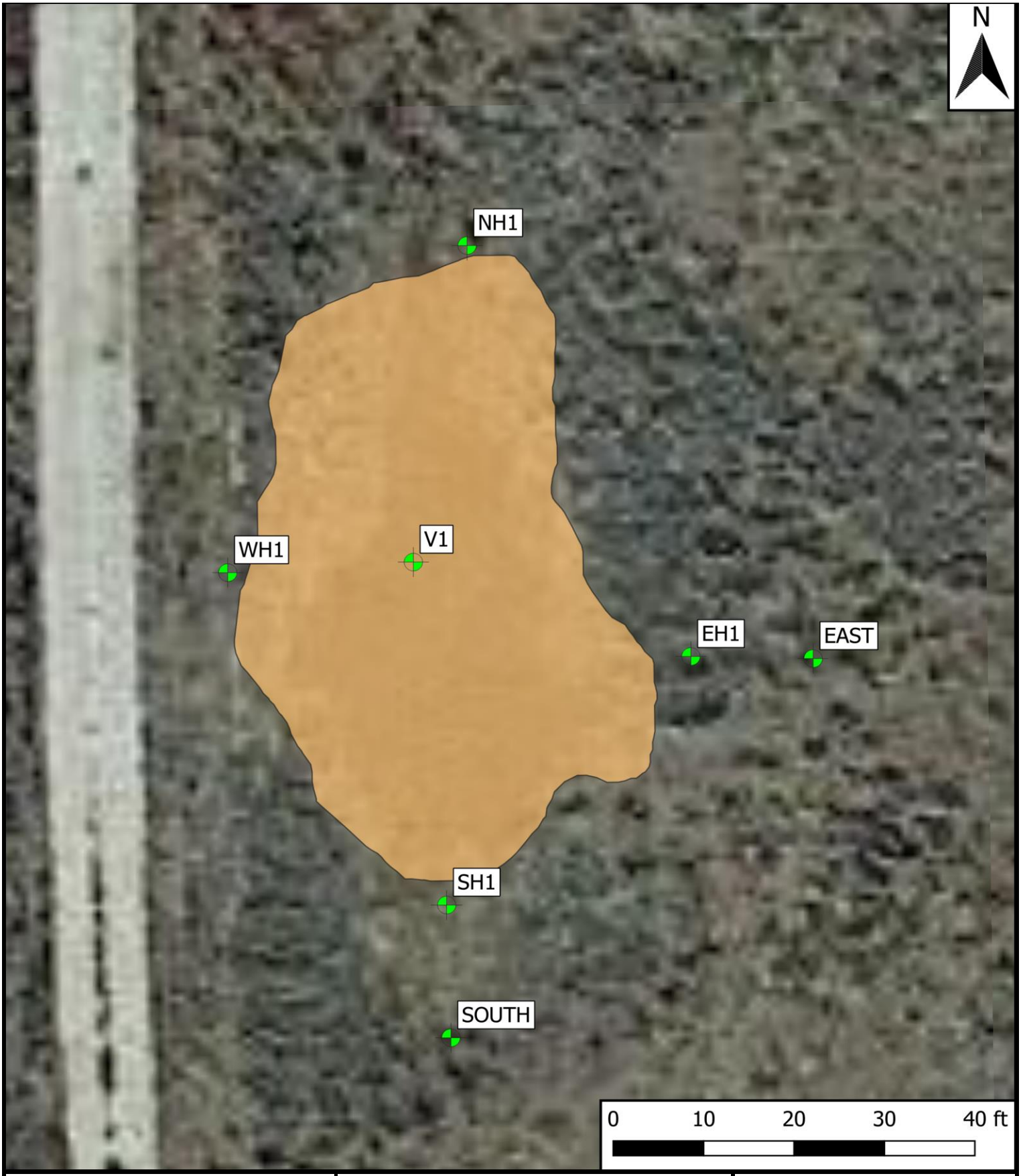
GPS: 33.310876, -103.612268

Lea County

eTECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 12/3/20

Figure 3
Site and Sample Location Map



Legend

Sample Point

Stain - 2,285 Sq Ft

Figure 3

Site and Sample Location Map

Targa Midstream Services, LLC

Bagley 7-Inch

GPS: 33.310876, -103.612268

Lea County

eTECH Environmental & Safety Solutions, Inc.

Drafted: mag

Checked: jwl Date: 12/2/20

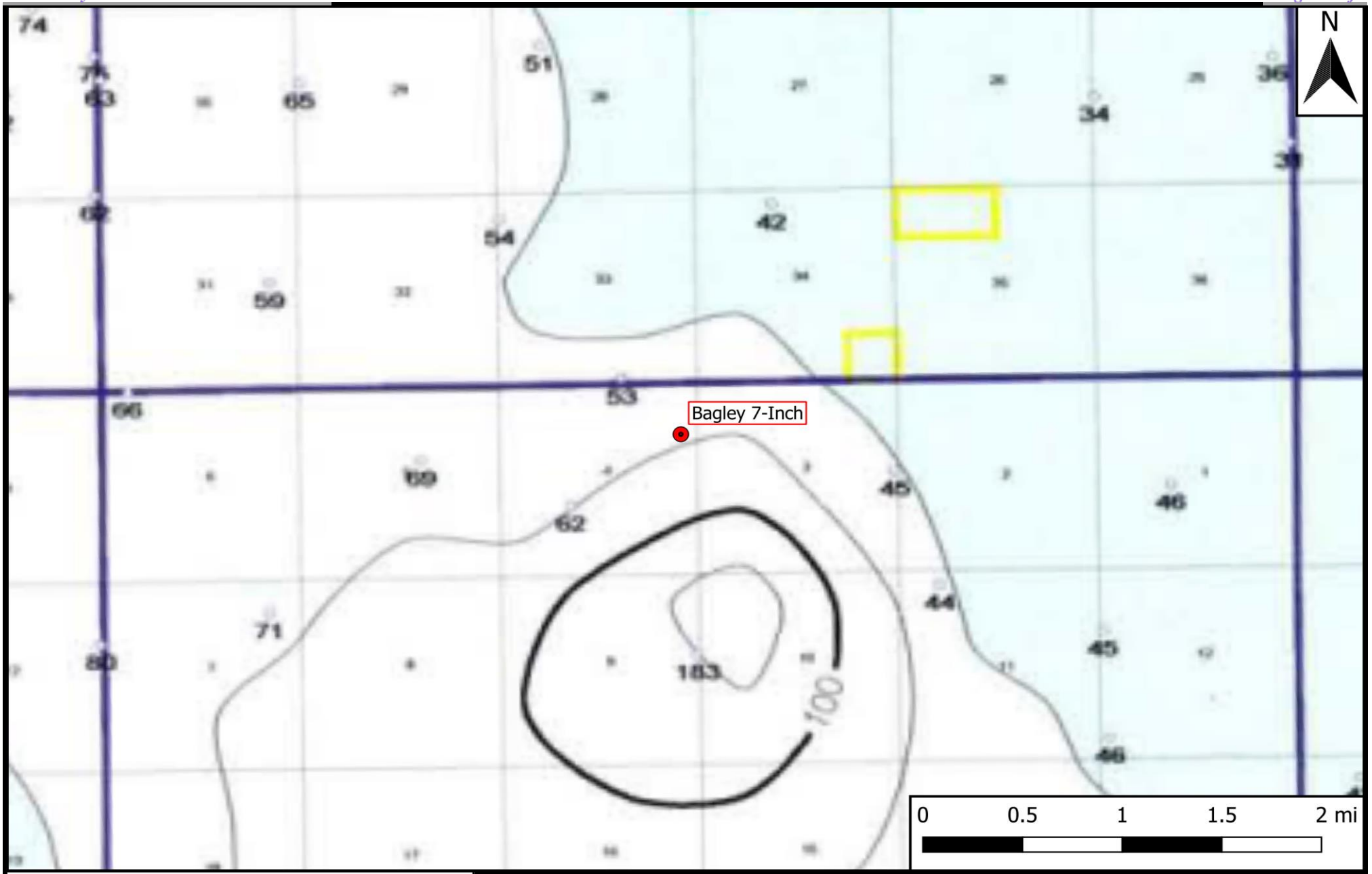
Table 1
Concentrations of BTEX, TPH, and/or Chloride in Soil

TABLE 1
CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL
Targa Midstream Services, LLC
Bagley 7-Inch
NMOCD Ref. #: nRM2022554489

NMOCD Closure Criteria				**10**	**50**	**-**	**-**	**1,000**	**-**	**2,500**	**10,000**
NMOCD Reclamation Standard				**10**	**50**	**-**	**-**	**-**	**-**	**100**	**600**
Sample ID	**Date**	**Depth**	**Soil Status**	**SW 846 8021B**		**SW 846 8015M Ext.**					**4500 Cl**
				Benzene (mg/kg)	**BTEX (mg/kg)**	**GRO C_6-C_{10} (mg/kg)**	**DRO C_{10}-C_{28} (mg/kg)**	**GRO + DRO C_6-C_{28} (mg/kg)**	**ORO C_{28}-C_{36} (mg/kg)**	**TPH C_6-C_{36} (mg/kg)**	**Chloride (mg/kg)**
V1@3'	9/29/2020	3'	In-Situ	0.129	11.8	749	605	**1,350**	<50.0	1,350	358
V1@4'	9/29/2020	4'	In-Situ	1.37	**135**	4,800	1,360	**6,160**	94.6	**6,250**	416
NH1@SURF	9/29/2020	0'	In-Situ	<0.00199	<0.00199	<50.0	60.8	60.8	<50.0	60.8	13.6
NH1@2'	9/29/2020	2'	In-Situ	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	14.8
EH1@SURF	9/29/2020	0'	In-Situ	<0.00201	<0.00201	<49.8	<49.8	<49.8	<49.8	<49.8	56.6
EH1@2'	9/29/2020	2'	In-Situ	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	**1,520**
SH1@SURF	9/29/2020	0'	In-Situ	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	12.3
SH1@2'	9/29/2020	2'	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	**1,450**
WH1@SURF	9/29/2020	0'	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	12.6
WH1@2'	9/29/2020	2'	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	11.8
#1 SOUTH 0-1'	11/13/2020	0-1'	In-Situ	-	-	-	-	-	-	-	<16
#2 SOUTH 1-2'	11/13/2020	1-2'	In-Situ	-	-	-	-	-	-	-	<16
#2 EAST 0-1'	11/13/2020	0-1'	In-Situ	-	-	-	-	-	-	-	<16
#2 EAST 1-2'	11/13/2020	1-2'	In-Situ	-	-	-	-	-	-	-	<16
V 1 6'	11/13/2020	6'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	-

NOTES:
- = Sample not analyzed for that constituent.
Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

Appendix A
Depth to Groundwater Information



Legend

Site Location

Figure 4

Inferred Depth to Groundwater Trend Map

Targa Midstream Services, LLC

Bagley 7-Inch

GPS: 33.310876, -103.612268

Lea County

eTECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 12/3/20

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	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
L 02981		L	LE	2	2	2	04	12S	33E	629237	3686969*	312	143	70	73
L 05009		L	LE		3	2	04	12S	33E	628741	3686462*	491	110	40	70
L 01151 POD1		L	LE		4	4	33	11S	33E	629132	3687276*	618	130	50	80
L 06521		L	LE	1	1	2	04	12S	33E	628634	3686964*	633	130	60	70
L 01233 POD1		L	LE		4	1	03	12S	33E	629949	3686478*	780	130	45	85
L 01331		L	LE		2	1	03	12S	33E	629943	3686880*	784	125	68	57

Average Depth to Water: **55 feet**

Minimum Depth: **40 feet**

Maximum Depth: **70 feet**

Record Count: 6

UTMNAD83 Radius Search (in meters):

Easting (X): 629190.34 **Northing (Y):** 3686660.14 **Radius:** 804.67

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

9/24/20 9:15 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

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
	L 01151 POD1		4	4	33	11S	33E	629132	3687276*

Driller License: **Driller Company:**

Driller Name: CLAUDE TATUM

Drill Start Date:	07/20/1951	**Drill Finish Date:**	07/26/1951	**Plug Date:**	
Log File Date:	09/12/1952	**PCW Rcv Date:**	09/17/1952	**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:	7.00	**Depth Well:**	130 feet	**Depth Water:**	50 feet

Water Bearing Stratifications:	Top	Bottom	Description
	50	130	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	100	130

***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
	L 01233 POD1		4	1	03	12S	33E	629949	3686478*

Driller License: **Driller Company:**

Driller Name: CLAUDE TATUM

Drill Start Date:	10/16/1951	**Drill Finish Date:**	10/17/1951	**Plug Date:**	07/30/1952
Log File Date:	02/18/1952	**PCW Rcv Date:**	03/20/1953	**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:	7.00	**Depth Well:**	130 feet	**Depth Water:**	45 feet

Water Bearing Stratifications:	Top	Bottom	Description
	45	130	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	90	130

***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	Twp	Rng	X	Y
	L 01331		2	1	03	12S	33E	629943	3686880*

Driller License: 33 **Driller Company:** TATUM CLAUDE E.

Driller Name: TATUM, CLAUDE E.

Drill Start Date: 01/09/1952 **Drill Finish Date:** 01/10/1952 **Plug Date:**

Log File Date: 02/18/1952 **PCW Rcv Date:** 03/20/1953 **Source:** Shallow

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

Casing Size: **Depth Well:** 125 feet **Depth Water:** 68 feet

Water Bearing Stratifications:	Top	Bottom	Description
	70	125	Sandstone/Gravel/Conglomerate

***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	Tws	Rng	X	Y
	L 02981	2	2	2	04	12S	33E	629237	3686969*

Driller License: 116 **Driller Company:** MATTHEWS DRILLING CO.

Driller Name: JAMES WILLIAM MATTHEWS

Drill Start Date:	09/30/1955	**Drill Finish Date:**	09/30/1955	**Plug Date:**	09/26/1956
Log File Date:	10/01/1956	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:		**Depth Well:**	143 feet	**Depth Water:**	70 feet

***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
	L 05009	3	2		04	12S	33E	628741	3686462*

Driller License: 274 **Driller Company:** BAKER, E.B. DRILLING COMPANY

Driller Name:

Drill Start Date:	12/04/1962	**Drill Finish Date:**	12/04/1962	**Plug Date:**	04/30/1963
Log File Date:	01/11/1963	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:		**Depth Well:**	110 feet	**Depth Water:**	40 feet

Water Bearing Stratifications:	Top	Bottom	Description
	50	108	Sandstone/Gravel/Conglomerate

***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
	L 06521	1	1	2	04	12S	33E	628634	3686964*

Driller License: 46 **Driller Company:** ABBOTT BROTHERS COMPANY

Driller Name: MURRELL ABBOTT

Drill Start Date: 05/07/1969 **Drill Finish Date:** 05/08/1969 **Plug Date:** 01/18/1973

Log File Date: 05/21/1969 **PCW Rcv Date:** **Source:** Shallow

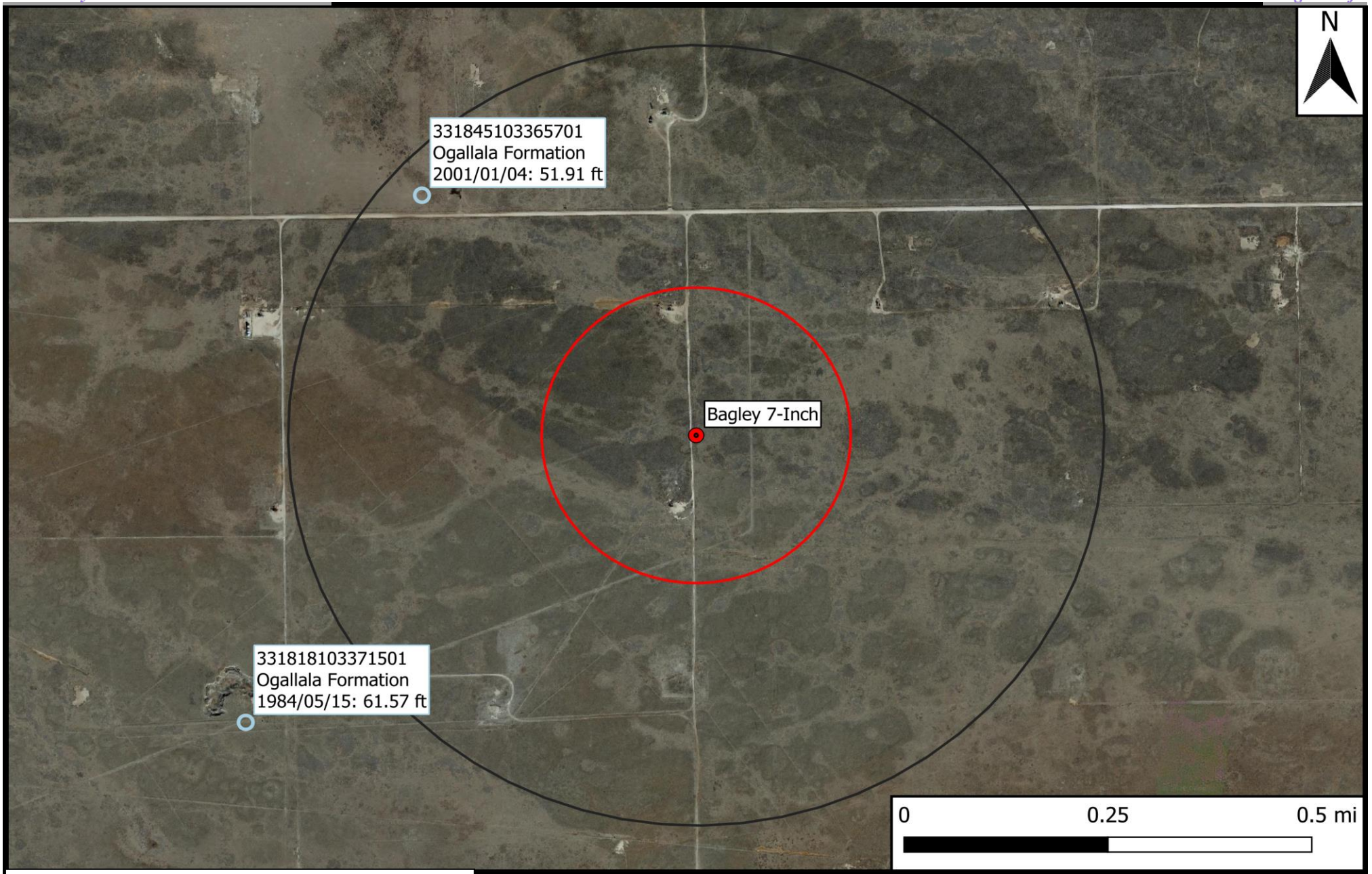
Pump Type: **Pipe Discharge Size:** **Estimated Yield:**

Casing Size: **Depth Well:** 130 feet **Depth Water:** 60 feet

Water Bearing Stratifications:	Top	Bottom	Description
	60	81	Sandstone/Gravel/Conglomerate
	103	130	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	85	127

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



Legend
- Site Location
- Well - USGS
- 0.5 Mi Radius
- 1000 Ft Radius

Figure 5
USGS Well Proximity Map
Targa Midstream Services, LLC
Bagley 7-Inch
GPS: 33.310876, -103.612268
Lea County

eTECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 12/3/20

Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
- **NOTICE 09-08-2020: The NWIS Mapper is experiencing intermittent issues. Developers are looking into the problem. Thank you for your patience.**
- Full News

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 331845103365701

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 331845103365701 11S.33E.33.433442

Lea County, New Mexico
Latitude 33°18'55", Longitude 103°37'03" NAD27
Land-surface elevation 4,268.50 feet above NGVD29
The depth of the well is 80 feet below land surface.
This well is completed in the Ogallala Formation (121OGLL) 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	? Wate level appr statu
1961-01-19		D	54.37			2		U		U	
1966-02-09		D	54.90			2		U		U	
1971-03-18		D	54.42			2		U		U	
1976-05-26		D	54.95			2		U		U	
1981-02-13		D	56.02			2		U		U	
1984-05-09		D	55.08			2		U		U	
1986-01-09		D	54.67			2		U		U	
1990-11-29		D	53.54			2		U		U	
1996-01-23		D	52.53			2		S		U	
2001-01-04		D	51.91			2		S		U	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
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.
Method of measurement	U	Unknown method.
Measuring agency		Not determined

Section	Code	Description
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
- **NOTICE 09-08-2020: The NWIS Mapper is experiencing intermittent issues. Developers are looking into the problem. Thank you for your patience.**
- Full News

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 331818103371501

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 331818103371501 12S.33E.04.32322

Lea County, New Mexico
Latitude 33°18'20", Longitude 103°37'17" NAD27
Land-surface elevation 4,271.00 feet above NGVD29
The depth of the well is 102 feet below land surface.
This well is completed in the Ogallala Formation (121OGLL) 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	? Wate level appr statu
1984-05-15		D	61.57			2		U		U	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
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	U	Unknown method.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

Appendix B
Field Data and Soil Profile Logs

eTECH Environmental & Safety Solutions, Inc.

Initial Release Assessment Form

Date: 11-13-20

Project: Bagley 7-Inch

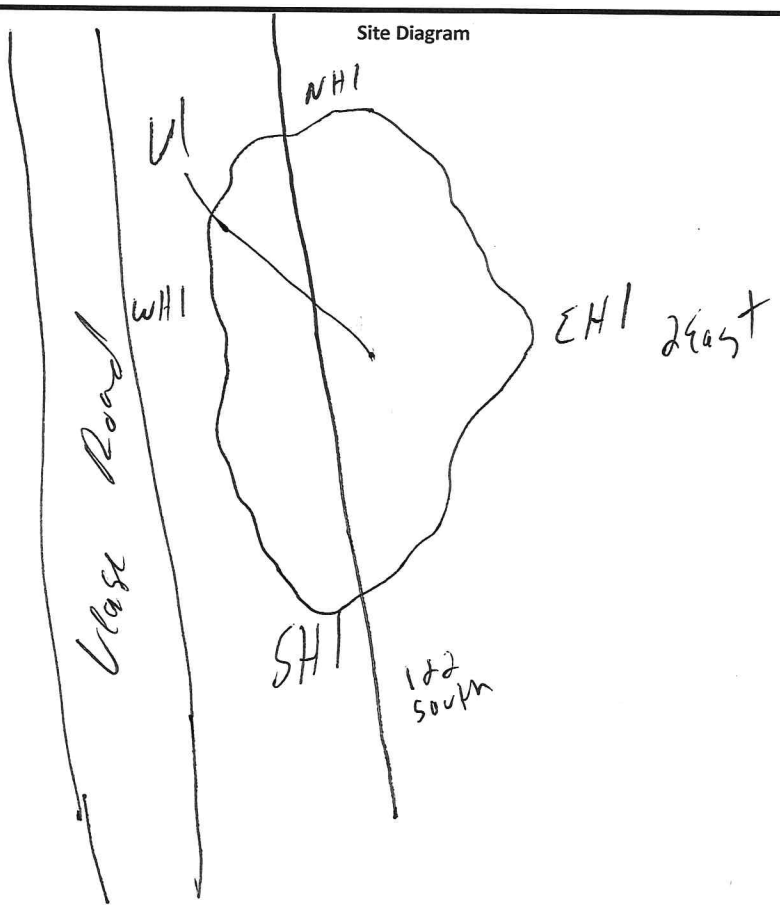
Project Number: 13146

Clean Up Level: 10,000 mg/kg Cl-, 2,500 mg/kg TPH

Latitude: 33.310876

Longitude: -103.612268

Site Diagram



Notes:

~Length: 70 ~Width: 40 ~Area: 2000 sq ft ~Depth:

	Yes	No
3-4 Representative Pictures of the Affected Area including sample locations?	☐	☐
Necessary Samples Field Screened and on Ice?	☐	☐
Sample and Field Screen Data Entered on Sample Log?	☐	☐
Was horizontal and vertical delineation achieved?	☐	☐

eTECH Environmental & Safety Solutions, Inc.

Sample Log

Date: 9-29, 11-13, 11-17

Project: Bagley 7-Inch

Project Number: 13146 Latitude: 33.310876 Longitude: -103.612268

Sample ID	PID/Odor	Chloride Conc.	GPS
V1@1	Strong	990	
V1@2	Strong	446	
V1@3	Slight	400	
V1@4	very strong	400	
NH1@surf	None	ND	
NH1@2'	none	ND	
EH1@surf	None	ND	
EH1@2'	none	1350	
SH1@surf	none	ND	
SH1@1'	none	790	
SH1@2'	none	1520	
WH1@surf	none	ND	
WH1@1'	none	340	
WH1@2'	none	ND	
V1@5'	Slight	ND	
V1@6'	none	N/A	
#1 South 0-1'	none	ND	
#2 South 1-2'	none	ND	
#2 East 0-1'	none	ND	
#2 East 1-2'	none	ND	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

Soil Intended to be Deferred = SP #1 @ 4' In-Situ

Resamples= SP #1 @ 5b or SW #1b

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas

eTECH Environmental & Safety Solutions, Inc.

Soil Profile

Date: 11-13

Project: Bagley 7-Inch

Project Number: 13146 Latitude: 33.310876 Longitude: -103.612268

Depth (ft. bgs)	Description
0-2'	gravel, slight topsoil
2-4'	rock, caprock
4-6'	rock, caprock = clay mix

Appendix C
Laboratory Analytical Reports

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Certificate of Analysis Summary 673890

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Bagley 7"

Project Id: 13146
Contact: Brandon Smitherman
Project Location: Lea County, NM

Date Received in Lab: Wed 09.30.2020 09:35
Report Date: 10.05.2020 13:02
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	673890-001		673890-002		673890-003		673890-004		673890-005		673890-006	
	Field Id:	V1@3'		V1@4'		NH1@SURF		NH1@2'		EH1@SURF		EH1@2'	
	Depth:	3- ft		4- ft				2- ft				2- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	09.29.2020 14:05		09.29.2020 14:10		09.29.2020 14:20		09.29.2020 14:25		09.29.2020 14:30		09.29.2020 14:35	
BTEX by EPA 8021B SUB: T104704400-20-21	***Extracted:***	10.01.2020 17:00		10.01.2020 17:00		10.02.2020 09:00		10.02.2020 09:00		10.02.2020 09:00		10.02.2020 09:00	
	Analyzed:	10.01.2020 20:28		10.01.2020 20:49		10.02.2020 17:16		10.02.2020 17:37		10.02.2020 17:57		10.02.2020 18:18	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		0.129	0.0402	1.37	0.0397	<0.00199	0.00199	<0.00199	0.00199	<0.00201	0.00201	<0.00198	0.00198
Toluene		3.90	0.0402	21.4 D	0.198	<0.00199	0.00199	<0.00199	0.00199	<0.00201	0.00201	<0.00198	0.00198
Ethylbenzene		4.05	0.0402	18.7 D	0.198	<0.00199	0.00199	<0.00199	0.00199	<0.00201	0.00201	<0.00198	0.00198
m,p-Xylenes		2.92	0.0803	70.5 D	0.397	<0.00398	0.00398	<0.00398	0.00398	<0.00402	0.00402	<0.00397	0.00397
o-Xylene		0.827	0.0402	22.7 D	0.198	<0.00199	0.00199	<0.00199	0.00199	<0.00201	0.00201	<0.00198	0.00198
Total Xylenes		3.75	0.0402	93.2	0.198	<0.00199	0.00199	<0.00199	0.00199	<0.00201	0.00201	<0.00198	0.00198
Total BTEX		11.8	0.0402	135	0.0397	<0.00199	0.00199	<0.00199	0.00199	<0.00201	0.00201	<0.00198	0.00198
Inorganic Anions by EPA 300 SUB: T104704400-20-21	***Extracted:***	10.01.2020 16:15		10.01.2020 16:15		10.01.2020 16:15		10.01.2020 16:15		10.01.2020 16:15		10.01.2020 16:15	
	Analyzed:	10.02.2020 16:44		10.02.2020 16:49		10.02.2020 16:54		10.02.2020 16:59		10.02.2020 17:15		10.02.2020 17:21	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		358	4.98	416	5.00	13.6	5.02	14.8	4.96	56.6	5.05	1520	24.9
TPH by SW8015 Mod SUB: T104704400-20-21	***Extracted:***	10.01.2020 11:15		10.01.2020 11:15		10.01.2020 11:15		10.01.2020 11:15		10.01.2020 11:15		10.01.2020 11:15	
	Analyzed:	10.01.2020 15:33		10.01.2020 15:55		10.01.2020 16:17		10.01.2020 16:39		10.01.2020 17:01		10.01.2020 17:23	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		749	50.0	4800	49.9	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0
Diesel Range Organics (DRO)		605	50.0	1360	49.9	60.8	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	94.6	49.9	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0
Total TPH		1350	50.0	6250	49.9	60.8	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0

BRL - Below Reporting Limit

Jessica Kramer

eurofins | Environment Testing Xenco

Certificate of Analysis Summary 673890

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Bagley 7"

Project Id: 13146
Contact: Brandon Smitherman
Project Location: Lea County, NM

Date Received in Lab: Wed 09.30.2020 09:35
Report Date: 10.05.2020 13:02
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	673890-007		673890-008		673890-009		673890-010					
	Field Id:	SH1@SURF		SH1@2'		WH1@SURF		WH1@2'					
	Depth:			2- ft				2- ft					
	Matrix:	SOIL		SOIL		SOIL		SOIL					
	Sampled:	09.29.2020 14:40		09.29.2020 14:45		09.29.2020 14:55		09.29.2020 15:00					
BTEX by EPA 8021B SUB: T104704400-20-21	***Extracted:***	10.02.2020 09:00		10.02.2020 09:00		10.02.2020 09:00		10.02.2020 09:00					
	Analyzed:	10.02.2020 18:38		10.02.2020 18:59		10.02.2020 19:19		10.02.2020 19:40					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199				
Toluene		<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199				
Ethylbenzene		<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199				
m,p-Xylenes		<0.00396	0.00396	<0.00400	0.00400	<0.00401	0.00401	<0.00398	0.00398				
o-Xylene		<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199				
Total Xylenes		<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199				
Total BTEX		<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199				
Inorganic Anions by EPA 300 SUB: T104704400-20-21	***Extracted:***	10.01.2020 16:15		10.01.2020 16:15		10.01.2020 16:15		10.01.2020 16:15					
	Analyzed:	10.02.2020 17:26		10.02.2020 17:31		10.02.2020 17:37		10.02.2020 17:42					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		12.3	4.99	1450	25.2	12.6	5.00	11.8 X	4.96				
TPH by SW8015 Mod SUB: T104704400-20-21	***Extracted:***	10.01.2020 11:15		10.01.2020 11:15		10.01.2020 11:15		10.01.2020 11:15					
	Analyzed:	10.01.2020 18:07		10.01.2020 18:29		10.01.2020 18:51		10.01.2020 19:12					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0				
Diesel Range Organics (DRO)		<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0				
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0				
Total TPH		<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0				

BRL - Below Reporting Limit

Jessica Kramer

eurofins | Environment Testing Xenco

Analytical Report 673890

for

Etech Environmental & Safety Solution, Inc

Project Manager: Brandon Smitherman

Bagley 7"

13146

10.05.2020

Collected By: Client

6701 Aberdeen, Suite 9 Lubbock, TX 79424

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: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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10.05.2020

Project Manager: **Brandon Smitherman**
Etech Environmental & Safety Solution, Inc
P.O. Box 62228
Midland, TX 79711

Reference: Eurofins Xenco, LLC Report No(s): **673890**
Bagley 7"
Project Address: Lea County, NM

Brandon Smitherman:

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) 673890. 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. 673890 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

eurofins | Environment Testing Xenco

Sample Cross Reference 673890

Etech Environmental & Safety Solution, Inc, Midland, TX

Bagley 7"

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
V1@3'	S	09.29.2020 14:05	3 ft	673890-001
V1@4'	S	09.29.2020 14:10	4 ft	673890-002
NH1@SURF	S	09.29.2020 14:20	N/A	673890-003
NH1@2'	S	09.29.2020 14:25	2 ft	673890-004
EH1@SURF	S	09.29.2020 14:30	N/A	673890-005
EH1@2'	S	09.29.2020 14:35	2 ft	673890-006
SH1@SURF	S	09.29.2020 14:40	N/A	673890-007
SH1@2'	S	09.29.2020 14:45	2 ft	673890-008
WH1@SURF	S	09.29.2020 14:55	N/A	673890-009
WH1@2'	S	09.29.2020 15:00	2 ft	673890-010

CASE NARRATIVE

eurofins | Environment Testing Xenco

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Bagley 7"

Project ID: *13146*
Work Order Number(s): *673890*

Report Date: *10.05.2020*
Date Received: *09.30.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3138612 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected. Samples affected are: 673890-002.

Batch: LBA-3138679 Inorganic Anions by EPA 300

Lab Sample ID 674012-041 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: 673890-001, -002, -003, -004, -005, -006, -007, -008, -009, -010.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

eurofins | Environment Testing Xenco

Certificate of Analytical Results 673890

Etech Environmental & Safety Solution, Inc, Midland, TX

Bagley 7"

Sample Id: **V1@3'** Matrix: Soil Date Received:09.30.2020 09:35

Lab Sample Id: 673890-001 Date Collected: 09.29.2020 14:05 Sample Depth: 3 ft

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

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 10.01.2020 16:15 Basis: Wet Weight

Seq Number: 3138679 SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**358**	4.98	mg/kg	10.02.2020 16:44		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 10.01.2020 11:15 Basis: Wet Weight

Seq Number: 3138683 SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**749**	50.0	mg/kg	10.01.2020 15:33		1
Diesel Range Organics (DRO)	C10C28DRO	**605**	50.0	mg/kg	10.01.2020 15:33		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.01.2020 15:33	U	1
Total TPH	PHC635	**1350**	50.0	mg/kg	10.01.2020 15:33		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-130	10.01.2020 15:33	
o-Terphenyl	84-15-1	102	%	70-130	10.01.2020 15:33	

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Sample Id:	**V1@3'**	Matrix:	Soil	Date Received:	09.30.2020 09:35
Lab Sample Id:	673890-001	Date Collected:	09.29.2020 14:05	Sample Depth:	3 ft

Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.01.2020 17:00	Basis:	Wet Weight
Seq Number:	3138612			SUB:	T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.129**	0.0402	mg/kg	10.01.2020 20:28		20
Toluene	108-88-3	**3.90**	0.0402	mg/kg	10.01.2020 20:28		20
Ethylbenzene	100-41-4	**4.05**	0.0402	mg/kg	10.01.2020 20:28		20
m,p-Xylenes	179601-23-1	**2.92**	0.0803	mg/kg	10.01.2020 20:28		20
o-Xylene	95-47-6	**0.827**	0.0402	mg/kg	10.01.2020 20:28		20
Total Xylenes	1330-20-7	**3.75**	0.0402	mg/kg	10.01.2020 20:28		20
Total BTEX		**11.8**	0.0402	mg/kg	10.01.2020 20:28		20

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	70-130	10.01.2020 20:28	
4-Bromofluorobenzene	460-00-4	127	%	70-130	10.01.2020 20:28	

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Sample Id:	**V1@4'**	Matrix:	Soil	Date Received:	09.30.2020 09:35
Lab Sample Id:	673890-002	Date Collected:	09.29.2020 14:10	Sample Depth:	4 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.01.2020 16:15	Basis:	Wet Weight
Seq Number:	3138679			SUB:	T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**416**	5.00	mg/kg	10.02.2020 16:49		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.01.2020 11:15	Basis:	Wet Weight
Seq Number:	3138683			SUB:	T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**4800**	49.9	mg/kg	10.01.2020 15:55		1
Diesel Range Organics (DRO)	C10C28DRO	**1360**	49.9	mg/kg	10.01.2020 15:55		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**94.6**	49.9	mg/kg	10.01.2020 15:55		1
Total TPH	PHC635	**6250**	49.9	mg/kg	10.01.2020 15:55		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-130	10.01.2020 15:55	
o-Terphenyl	84-15-1	116	%	70-130	10.01.2020 15:55	

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Sample Id:	**V1@4'**	Matrix:	Soil	Date Received:	09.30.2020 09:35
Lab Sample Id:	673890-002	Date Collected:	09.29.2020 14:10	Sample Depth:	4 ft

Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.01.2020 17:00	Basis:	Wet Weight
Seq Number:	3138612			SUB:	T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**1.37**	0.0397	mg/kg	10.01.2020 20:49		20
Toluene	108-88-3	**21.4**	0.198	mg/kg	10.02.2020 12:50	D	100
Ethylbenzene	100-41-4	**18.7**	0.198	mg/kg	10.02.2020 12:50	D	100
m,p-Xylenes	179601-23-1	**70.5**	0.397	mg/kg	10.02.2020 12:50	D	100
o-Xylene	95-47-6	**22.7**	0.198	mg/kg	10.02.2020 12:50	D	100
Total Xylenes	1330-20-7	**93.2**	0.198	mg/kg	10.02.2020 12:50		100
Total BTEX		**135**	0.0397	mg/kg	10.02.2020 12:50		100

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	383	%	70-130	10.01.2020 20:49	**
1,4-Difluorobenzene	540-36-3	91	%	70-130	10.01.2020 20:49	

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Sample Id: **NH1@SURF** Matrix: Soil Date Received:09.30.2020 09:35

Lab Sample Id: 673890-003 Date Collected: 09.29.2020 14:20

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

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 10.01.2020 16:15 Basis: Wet Weight

Seq Number: 3138679 SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**13.6**	5.02	mg/kg	10.02.2020 16:54		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 10.01.2020 11:15 Basis: Wet Weight

Seq Number: 3138683 SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.01.2020 16:17	U	1
Diesel Range Organics (DRO)	C10C28DRO	**60.8**	50.0	mg/kg	10.01.2020 16:17		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.01.2020 16:17	U	1
Total TPH	PHC635	**60.8**	50.0	mg/kg	10.01.2020 16:17		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-130	10.01.2020 16:17	
o-Terphenyl	84-15-1	84	%	70-130	10.01.2020 16:17	

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Sample Id:	**NH1@SURF**	Matrix:	Soil	Date Received:	09.30.2020 09:35
Lab Sample Id:	673890-003	Date Collected:	09.29.2020 14:20		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.02.2020 09:00	Basis:	Wet Weight
Seq Number:	3138779			SUB:	T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.02.2020 17:16	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.02.2020 17:16	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.02.2020 17:16	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.02.2020 17:16	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.02.2020 17:16	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.02.2020 17:16	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.02.2020 17:16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	98	%	70-130	10.02.2020 17:16	
4-Bromofluorobenzene	460-00-4	110	%	70-130	10.02.2020 17:16	

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Sample Id:	**NH1@2'**	Matrix:	Soil	Date Received:	09.30.2020 09:35
Lab Sample Id:	673890-004	Date Collected:	09.29.2020 14:25	Sample Depth:	2 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.01.2020 16:15	Basis:	Wet Weight
Seq Number:	3138679			SUB:	T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**14.8**	4.96	mg/kg	10.02.2020 16:59		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.01.2020 11:15	Basis:	Wet Weight
Seq Number:	3138683			SUB:	T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.01.2020 16:39	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.01.2020 16:39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.01.2020 16:39	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.01.2020 16:39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-130	10.01.2020 16:39	
o-Terphenyl	84-15-1	88	%	70-130	10.01.2020 16:39	

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Sample Id:	**NH1@2'**	Matrix:	Soil	Date Received:	09.30.2020 09:35
Lab Sample Id:	673890-004	Date Collected:	09.29.2020 14:25	Sample Depth:	2 ft

Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.02.2020 09:00	Basis:	Wet Weight
Seq Number:	3138779			SUB:	T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.02.2020 17:37	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.02.2020 17:37	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.02.2020 17:37	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.02.2020 17:37	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.02.2020 17:37	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.02.2020 17:37	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.02.2020 17:37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	70-130	10.02.2020 17:37	
4-Bromofluorobenzene	460-00-4	105	%	70-130	10.02.2020 17:37	

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Sample Id: **EH1@SURF** Matrix: Soil Date Received:09.30.2020 09:35

Lab Sample Id: 673890-005 Date Collected: 09.29.2020 14:30

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

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 10.01.2020 16:15 Basis: Wet Weight

Seq Number: 3138679 SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**56.6**	5.05	mg/kg	10.02.2020 17:15		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 10.01.2020 11:15 Basis: Wet Weight

Seq Number: 3138683 SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	10.01.2020 17:01	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	10.01.2020 17:01	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	10.01.2020 17:01	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	10.01.2020 17:01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-130	10.01.2020 17:01	
o-Terphenyl	84-15-1	84	%	70-130	10.01.2020 17:01	

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Sample Id:	**EH1@SURF**	Matrix:	Soil	Date Received:	09.30.2020 09:35
Lab Sample Id:	673890-005	Date Collected:	09.29.2020 14:30		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.02.2020 09:00	Basis:	Wet Weight
Seq Number:	3138779			SUB:	T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.02.2020 17:57	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.02.2020 17:57	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.02.2020 17:57	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	10.02.2020 17:57	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	10.02.2020 17:57	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	10.02.2020 17:57	U	1
Total BTEX		<0.00201	0.00201	mg/kg	10.02.2020 17:57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	106	%	70-130	10.02.2020 17:57	
1,4-Difluorobenzene	540-36-3	101	%	70-130	10.02.2020 17:57	

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Sample Id:	**EH1@2'**	Matrix:	Soil	Date Received:	09.30.2020 09:35
Lab Sample Id:	673890-006	Date Collected:	09.29.2020 14:35	Sample Depth:	2 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.01.2020 16:15	Basis:	Wet Weight
Seq Number:	3138679			SUB:	T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1520**	24.9	mg/kg	10.02.2020 17:21		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.01.2020 11:15	Basis:	Wet Weight
Seq Number:	3138683			SUB:	T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.01.2020 17:23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.01.2020 17:23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.01.2020 17:23	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.01.2020 17:23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-130	10.01.2020 17:23	
o-Terphenyl	84-15-1	89	%	70-130	10.01.2020 17:23	

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Sample Id:	**EH1@2'**	Matrix:	Soil	Date Received:	09.30.2020 09:35
Lab Sample Id:	673890-006	Date Collected:	09.29.2020 14:35	Sample Depth:	2 ft

Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.02.2020 09:00	Basis:	Wet Weight
Seq Number:	3138779			SUB:	T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	10.02.2020 18:18	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	10.02.2020 18:18	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	10.02.2020 18:18	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	10.02.2020 18:18	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	10.02.2020 18:18	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	10.02.2020 18:18	U	1
Total BTEX		<0.00198	0.00198	mg/kg	10.02.2020 18:18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	110	%	70-130	10.02.2020 18:18	
1,4-Difluorobenzene	540-36-3	102	%	70-130	10.02.2020 18:18	

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Bagley 7"

Sample Id: **SH1@SURF** Matrix: Soil Date Received:09.30.2020 09:35

Lab Sample Id: 673890-007 Date Collected: 09.29.2020 14:40

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

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 10.01.2020 16:15 Basis: Wet Weight

Seq Number: 3138679 SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**12.3**	4.99	mg/kg	10.02.2020 17:26		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 10.01.2020 11:15 Basis: Wet Weight

Seq Number: 3138683 SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.01.2020 18:07	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.01.2020 18:07	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.01.2020 18:07	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.01.2020 18:07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-130	10.01.2020 18:07	
o-Terphenyl	84-15-1	77	%	70-130	10.01.2020 18:07	

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Bagley 7"

Sample Id:	**SH1@SURF**	Matrix:	Soil	Date Received:	09.30.2020 09:35
Lab Sample Id:	673890-007	Date Collected:	09.29.2020 14:40		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.02.2020 09:00	Basis:	Wet Weight
Seq Number:	3138779			SUB:	T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	10.02.2020 18:38	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	10.02.2020 18:38	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	10.02.2020 18:38	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	10.02.2020 18:38	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	10.02.2020 18:38	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	10.02.2020 18:38	U	1
Total BTEX		<0.00198	0.00198	mg/kg	10.02.2020 18:38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	70-130	10.02.2020 18:38	
4-Bromofluorobenzene	460-00-4	106	%	70-130	10.02.2020 18:38	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Bagley 7"

Sample Id:	**SH1@2'**	Matrix:	Soil	Date Received:	09.30.2020 09:35
Lab Sample Id:	673890-008	Date Collected:	09.29.2020 14:45	Sample Depth:	2 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.01.2020 16:15	Basis:	Wet Weight
Seq Number:	3138679			SUB:	T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1450**	25.2	mg/kg	10.02.2020 17:31		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.01.2020 11:15	Basis:	Wet Weight
Seq Number:	3138683			SUB:	T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.01.2020 18:29	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.01.2020 18:29	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.01.2020 18:29	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.01.2020 18:29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-130	10.01.2020 18:29	
o-Terphenyl	84-15-1	91	%	70-130	10.01.2020 18:29	

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Certificate of Analytical Results 673890

Etech Environmental & Safety Solution, Inc, Midland, TX

Bagley 7"

Sample Id:	**SH1@2'**	Matrix:	Soil	Date Received:	09.30.2020 09:35
Lab Sample Id:	673890-008	Date Collected:	09.29.2020 14:45	Sample Depth:	2 ft

Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.02.2020 09:00	Basis:	Wet Weight
Seq Number:	3138779			SUB:	T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.02.2020 18:59	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.02.2020 18:59	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.02.2020 18:59	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	10.02.2020 18:59	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.02.2020 18:59	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.02.2020 18:59	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.02.2020 18:59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	105	%	70-130	10.02.2020 18:59	
1,4-Difluorobenzene	540-36-3	100	%	70-130	10.02.2020 18:59	

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Certificate of Analytical Results 673890

Etech Environmental & Safety Solution, Inc, Midland, TX

Bagley 7"

Sample Id: **WH1@SURF** Matrix: Soil Date Received:09.30.2020 09:35

Lab Sample Id: 673890-009 Date Collected: 09.29.2020 14:55

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

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 10.01.2020 16:15 Basis: Wet Weight

Seq Number: 3138679 SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**12.6**	5.00	mg/kg	10.02.2020 17:37		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 10.01.2020 11:15 Basis: Wet Weight

Seq Number: 3138683 SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	10.01.2020 18:51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	10.01.2020 18:51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	10.01.2020 18:51	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	10.01.2020 18:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-130	10.01.2020 18:51	
o-Terphenyl	84-15-1	81	%	70-130	10.01.2020 18:51	

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Certificate of Analytical Results 673890

Etech Environmental & Safety Solution, Inc, Midland, TX

Bagley 7"

Sample Id:	**WH1@SURF**	Matrix:	Soil	Date Received:	09.30.2020 09:35
Lab Sample Id:	673890-009	Date Collected:	09.29.2020 14:55		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.02.2020 09:00	Basis:	Wet Weight
Seq Number:	3138779			SUB:	T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.02.2020 19:19	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.02.2020 19:19	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.02.2020 19:19	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	10.02.2020 19:19	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.02.2020 19:19	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.02.2020 19:19	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.02.2020 19:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	109	%	70-130	10.02.2020 19:19	
1,4-Difluorobenzene	540-36-3	96	%	70-130	10.02.2020 19:19	

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Certificate of Analytical Results 673890

Etech Environmental & Safety Solution, Inc, Midland, TX

Bagley 7"

Sample Id:	**WH1@2'**	Matrix:	Soil	Date Received:	09.30.2020 09:35
Lab Sample Id:	673890-010	Date Collected:	09.29.2020 15:00	Sample Depth:	2 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.01.2020 16:15	Basis:	Wet Weight
Seq Number:	3138679			SUB:	T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**11.8**	4.96	mg/kg	10.02.2020 17:42	X	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.01.2020 11:15	Basis:	Wet Weight
Seq Number:	3138683			SUB:	T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.01.2020 19:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.01.2020 19:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.01.2020 19:12	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.01.2020 19:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-130	10.01.2020 19:12	
o-Terphenyl	84-15-1	89	%	70-130	10.01.2020 19:12	

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Certificate of Analytical Results 673890

Etech Environmental & Safety Solution, Inc, Midland, TX

Bagley 7"

Sample Id:	**WH1@2'**	Matrix:	Soil	Date Received:	09.30.2020 09:35
Lab Sample Id:	673890-010	Date Collected:	09.29.2020 15:00	Sample Depth:	2 ft

Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.02.2020 09:00	Basis:	Wet Weight
Seq Number:	3138779			SUB:	T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.02.2020 19:40	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.02.2020 19:40	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.02.2020 19:40	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.02.2020 19:40	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.02.2020 19:40	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.02.2020 19:40	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.02.2020 19:40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	107	%	70-130	10.02.2020 19:40	
1,4-Difluorobenzene	540-36-3	100	%	70-130	10.02.2020 19:40	

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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 673890

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Etech Environmental & Safety Solution, Inc

Bagley 7"

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3138679 — Matrix: Solid — Date Prep: 10.01.2020
MB Sample Id: 7712462-1-BLK — LCS Sample Id: 7712462-1-BKS — LCSD Sample Id: 7712462-1-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	265	106	264	106	90-110	0	20	mg/kg	10.02.2020 16:17	

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3138679 — Matrix: Soil — Date Prep: 10.01.2020
Parent Sample Id: 673890-010 — MS Sample Id: 673890-010 S — MSD Sample Id: 673890-010 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	11.8	248	287	111	287	111	90-110	0	20	mg/kg	10.02.2020 17:47	X

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3138679 — Matrix: Soil — Date Prep: 10.01.2020
Parent Sample Id: 674012-041 — MS Sample Id: 674012-041 S — MSD Sample Id: 674012-041 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	13.6	252	287	108	282	107	90-110	2	20	mg/kg	10.02.2020 16:33	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3138683 — Matrix: Solid — Date Prep: 10.01.2020
MB Sample Id: 7712480-1-BLK — LCS Sample Id: 7712480-1-BKS — LCSD Sample Id: 7712480-1-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	951	95	1000	100	70-130	5	20	mg/kg	10.01.2020 12:39	
Diesel Range Organics (DRO)	<50.0	1000	1040	104	1030	103	70-130	1	20	mg/kg	10.01.2020 12:39	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	94		107		106		70-130	%	10.01.2020 12:39
o-Terphenyl	91		96		95		70-130	%	10.01.2020 12:39

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3138683 — Matrix: Solid — Date Prep: 10.01.2020
MB Sample Id: 7712480-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	10.01.2020 12:17	

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 673890

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Bagley 7"

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3138683 — Matrix: Soil — Date Prep: 10.01.2020
Parent Sample Id: 673912-001 — MS Sample Id: 673912-001 S — MSD Sample Id: 673912-001 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)	<49.9	997	882	88	869	87	70-130	1	20	mg/kg	10.01.2020 13:44	
Diesel Range Organics (DRO)	<49.9	997	967	97	994	100	70-130	3	20	mg/kg	10.01.2020 13:44	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	95		96		70-130	%	10.01.2020 13:44
o-Terphenyl	82		85		70-130	%	10.01.2020 13:44

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3138612 — Matrix: Solid — Date Prep: 10.01.2020
MB Sample Id: 7712445-1-BLK — LCS Sample Id: 7712445-1-BKS — LCSD Sample Id: 7712445-1-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	0.103	103	0.103	103	70-130	0	35	mg/kg	10.01.2020 10:13	
Toluene	<0.00200	0.100	0.111	111	0.106	106	70-130	5	35	mg/kg	10.01.2020 10:13	
Ethylbenzene	<0.00200	0.100	0.106	106	0.101	101	70-130	5	35	mg/kg	10.01.2020 10:13	
m,p-Xylenes	<0.00400	0.200	0.218	109	0.207	104	70-130	5	35	mg/kg	10.01.2020 10:13	
o-Xylene	<0.00200	0.100	0.105	105	0.100	100	70-130	5	35	mg/kg	10.01.2020 10:13	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	96		97		98		70-130	%	10.01.2020 10:13
4-Bromofluorobenzene	108		101		96		70-130	%	10.01.2020 10:13

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3138779 — Matrix: Solid — Date Prep: 10.02.2020
MB Sample Id: 7712585-1-BLK — LCS Sample Id: 7712585-1-BKS — LCSD Sample Id: 7712585-1-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	0.113	113	0.104	104	70-130	8	35	mg/kg	10.02.2020 08:58	
Toluene	<0.00200	0.100	0.107	107	0.107	107	70-130	0	35	mg/kg	10.02.2020 08:58	
Ethylbenzene	<0.00200	0.100	0.114	114	0.105	105	70-130	8	35	mg/kg	10.02.2020 08:58	
m,p-Xylenes	<0.00400	0.200	0.235	118	0.215	108	70-130	9	35	mg/kg	10.02.2020 08:58	
o-Xylene	<0.00200	0.100	0.114	114	0.104	104	70-130	9	35	mg/kg	10.02.2020 08:58	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		100		99		70-130	%	10.02.2020 08:58
4-Bromofluorobenzene	105		103		102		70-130	%	10.02.2020 08:58

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 673890

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Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3138612 Matrix: Soil Date Prep: 10.01.2020
Parent Sample Id: 674024-001 MS Sample Id: 674024-001 S MSD Sample Id: 674024-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0996	0.0658	66	0.103	102	70-130	44	35	mg/kg	10.01.2020 10:54	XF
Toluene	<0.00199	0.0996	0.0706	71	0.104	103	70-130	38	35	mg/kg	10.01.2020 10:54	F
Ethylbenzene	<0.00199	0.0996	0.0628	63	0.101	100	70-130	47	35	mg/kg	10.01.2020 10:54	XF
m,p-Xylenes	<0.00398	0.199	0.130	65	0.207	103	70-130	46	35	mg/kg	10.01.2020 10:54	XF
o-Xylene	<0.00199	0.0996	0.0631	63	0.0992	98	70-130	44	35	mg/kg	10.01.2020 10:54	XF

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		99		70-130	%	10.01.2020 10:54
4-Bromofluorobenzene	110		98		70-130	%	10.01.2020 10:54

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3138779 Matrix: Soil Date Prep: 10.02.2020
Parent Sample Id: 674139-001 MS Sample Id: 674139-001 S MSD Sample Id: 674139-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0979	98	0.0984	99	70-130	1	35	mg/kg	10.02.2020 11:27	
Toluene	<0.00200	0.100	0.0915	92	0.0921	93	70-130	1	35	mg/kg	10.02.2020 11:27	
Ethylbenzene	<0.00200	0.100	0.0969	97	0.0982	99	70-130	1	35	mg/kg	10.02.2020 11:27	
m,p-Xylenes	<0.00401	0.200	0.199	100	0.202	102	70-130	1	35	mg/kg	10.02.2020 11:27	
o-Xylene	<0.00200	0.100	0.0965	97	0.0981	99	70-130	2	35	mg/kg	10.02.2020 11:27	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	96		97		70-130	%	10.02.2020 11:27
4-Bromofluorobenzene	98		102		70-130	%	10.02.2020 11:27

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

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: 673890

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Project Manager:	Joel Lowry	Bill to: (if different)	
Company Name:	Etech Environmental & Safety	Company Name:	Targa Resources
Address:	2509 79th St. Suite B	Address:	
City, State ZIP:	Lubbock, TX 79423	City, State ZIP:	
Phone:	432-894-2100	Email:	b.smitherman@etechenv.com

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:	Bagley 7"	Turn Around	☑ Routine ☐ Rush
Project Number:	13146	Due Date:	
Project Location:	Lea County, NM	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Brandon Smitherman		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	Yes (No)	
Samples Received Intact:	(Yes) No	Thermometer ID:	IR-4	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	+0.5 +0.4	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	15.0	
Total Containers:		Corrected Temperature:	15.4	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chloride E300	BTEX 8021	TPH Modified Ext	Sample Comments
V1 @ 3'	Soil	9/29/2020	14:05	3'	Grab	1		x	x	x	673890-001 Cool
V1 @ 4'	Soil	9/29/2020	14:10	4'	Grab	1		x	x	x	-002 Cool
NH1 @ Surf	Soil	9/29/2020	14:20	Surf	Grab	1		x	x	x	-003 Cool
NH1 @ 2'	Soil	9/29/2020	14:25	2'	Grab	1		x	x	x	-004 Cool
EH1 @ Surf	Soil	9/29/2020	14:30	Surf	Grab	1		x	x	x	-005 Cool
EH1 @ 2'	Soil	9/29/2020	14:35	2'	Grab	1		x	x	x	-006 Cool
SH1 @ Surf	Soil	9/29/2020	14:40	Surf	Grab	1		x	x	x	-007 Cool
SH1 @ 2'	Soil	9/29/2020	14:45	2'	Grab	1		x	x	x	-008 Cool
WH1 @ Surf	Soil	9/29/2020	14:55	Surf	Grab	1		x	x	x	-009 Cool
WH1 @ 2'	Soil	9/29/2020	15:00	2'	Grab	1		x	x	x	-010 Cool

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

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010:** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins 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 Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins 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		9/30/20 0935
3			4	9/30/2020 9:35	
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Inter-Office Shipment

IOS Number : 71168

Date/Time: 09.30.2020
Lab# From: **Lubbock**
Lab# To: **Midland**

Created by: Michael J Turner
Delivery Priority:
Air Bill No.:

Please send report to: Jessica Kramer
Address: 6701 Aberdeen, Suite 9 Lubbock, TX 79424
E-Mail: jessica.kramer@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
673890-001	S	V1@3'	09.29.2020 14:05	SW8021B	BTEX by EPA 8021B	10.06.2020	10.13.2020	JKR	BR4FBZ BZ BZME EBZ	
673890-001	S	V1@3'	09.29.2020 14:05	SW8015MOD_NM	TPH by SW8015 Mod	10.06.2020	10.13.2020	JKR	PHCC10C28 PHCC28C3	
673890-001	S	V1@3'	09.29.2020 14:05	E300	Inorganic Anions by EPA 300	10.06.2020	10.27.2020	JKR	CL	
673890-002	S	V1@4'	09.29.2020 14:10	SW8021B	BTEX by EPA 8021B	10.06.2020	10.13.2020	JKR	BR4FBZ BZ BZME EBZ	
673890-002	S	V1@4'	09.29.2020 14:10	E300	Inorganic Anions by EPA 300	10.06.2020	10.27.2020	JKR	CL	
673890-002	S	V1@4'	09.29.2020 14:10	SW8015MOD_NM	TPH by SW8015 Mod	10.06.2020	10.13.2020	JKR	PHCC10C28 PHCC28C3	
673890-003	S	NH1@SURF	09.29.2020 14:20	SW8021B	BTEX by EPA 8021B	10.06.2020	10.13.2020	JKR	BR4FBZ BZ BZME EBZ	
673890-003	S	NH1@SURF	09.29.2020 14:20	E300	Inorganic Anions by EPA 300	10.06.2020	10.27.2020	JKR	CL	
673890-003	S	NH1@SURF	09.29.2020 14:20	SW8015MOD_NM	TPH by SW8015 Mod	10.06.2020	10.13.2020	JKR	PHCC10C28 PHCC28C3	
673890-004	S	NH1@2'	09.29.2020 14:25	SW8021B	BTEX by EPA 8021B	10.06.2020	10.13.2020	JKR	BR4FBZ BZ BZME EBZ	
673890-004	S	NH1@2'	09.29.2020 14:25	SW8015MOD_NM	TPH by SW8015 Mod	10.06.2020	10.13.2020	JKR	PHCC10C28 PHCC28C3	
673890-004	S	NH1@2'	09.29.2020 14:25	E300	Inorganic Anions by EPA 300	10.06.2020	10.27.2020	JKR	CL	
673890-005	S	EH1@SURF	09.29.2020 14:30	SW8021B	BTEX by EPA 8021B	10.06.2020	10.13.2020	JKR	BR4FBZ BZ BZME EBZ	
673890-005	S	EH1@SURF	09.29.2020 14:30	SW8015MOD_NM	TPH by SW8015 Mod	10.06.2020	10.13.2020	JKR	PHCC10C28 PHCC28C3	
673890-005	S	EH1@SURF	09.29.2020 14:30	E300	Inorganic Anions by EPA 300	10.06.2020	10.27.2020	JKR	CL	
673890-006	S	EH1@2'	09.29.2020 14:35	SW8021B	BTEX by EPA 8021B	10.06.2020	10.13.2020	JKR	BR4FBZ BZ BZME EBZ	
673890-006	S	EH1@2'	09.29.2020 14:35	E300	Inorganic Anions by EPA 300	10.06.2020	10.27.2020	JKR	CL	
673890-006	S	EH1@2'	09.29.2020 14:35	SW8015MOD_NM	TPH by SW8015 Mod	10.06.2020	10.13.2020	JKR	PHCC10C28 PHCC28C3	
673890-007	S	SH1@SURF	09.29.2020 14:40	SW8021B	BTEX by EPA 8021B	10.06.2020	10.13.2020	JKR	BR4FBZ BZ BZME EBZ	
673890-007	S	SH1@SURF	09.29.2020 14:40	E300	Inorganic Anions by EPA 300	10.06.2020	10.27.2020	JKR	CL	
673890-007	S	SH1@SURF	09.29.2020 14:40	SW8015MOD_NM	TPH by SW8015 Mod	10.06.2020	10.13.2020	JKR	PHCC10C28 PHCC28C3	
673890-008	S	SH1@2'	09.29.2020 14:45	E300	Inorganic Anions by EPA 300	10.06.2020	10.27.2020	JKR	CL	
673890-008	S	SH1@2'	09.29.2020 14:45	SW8021B	BTEX by EPA 8021B	10.06.2020	10.13.2020	JKR	BR4FBZ BZ BZME EBZ	
673890-008	S	SH1@2'	09.29.2020 14:45	SW8015MOD_NM	TPH by SW8015 Mod	10.06.2020	10.13.2020	JKR	PHCC10C28 PHCC28C3	
673890-009	S	WH1@SURF	09.29.2020 14:55	SW8015MOD_NM	TPH by SW8015 Mod	10.06.2020	10.13.2020	JKR	PHCC10C28 PHCC28C3	

Inter-Office Shipment

IOS Number : 71168

Date/Time: 09.30.2020
Lab# From: **Lubbock**
Lab# To: **Midland**

Created by: Michael J Turner
Delivery Priority:
Air Bill No.:

Please send report to: Jessica Kramer
Address: 6701 Aberdeen, Suite 9 Lubbock, TX 79424
E-Mail: jessica.kramer@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
673890-009	S	WH1@SURF	09.29.2020 14:55	E300	Inorganic Anions by EPA 300	10.06.2020	10.27.2020	JKR	CL	
673890-009	S	WH1@SURF	09.29.2020 14:55	SW8021B	BTEX by EPA 8021B	10.06.2020	10.13.2020	JKR	BR4FBZ BZ BZME EBZ	
673890-010	S	WH1@2'	09.29.2020 15:00	SW8021B	BTEX by EPA 8021B	10.06.2020	10.13.2020	JKR	BR4FBZ BZ BZME EBZ	
673890-010	S	WH1@2'	09.29.2020 15:00	E300	Inorganic Anions by EPA 300	10.06.2020	10.27.2020	JKR	CL	
673890-010	S	WH1@2'	09.29.2020 15:00	SW8015MOD_NM	TPH by SW8015 Mod	10.06.2020	10.13.2020	JKR	PHCC10C28 PHCC28C3	

Inter Office Shipment or Sample Comments:

Relinquished By: Michael J Turner
Date Relinquished: 09.30.2020

Received By: Allison Johnson
Date Received: 10.01.2020
Cooler Temperature: 5.3

Eurofins Xenco, LLC

Environment Testing Xenco

Inter Office Report- Sample Receipt Checklist

Sent To: Midland

IOS #: 71168

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient
Temperature Measuring device used :

Sent By: Michael J Turner **Date Sent:** 09.30.2020 10.04 AM

Received By: Allison Johnson **Date Received:** 10.01.2020 10.57 AM

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	5.3	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received with appropriate temperature?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**	
#5 *Custody Seals Signed and dated for Containers/coolers	**Yes**	
#6 *IOS present?	**Yes**	
#7 Any missing/extra samples?	**No**	r8
#8 IOS agrees with sample label(s)/matrix?	**Yes**	
#9 Sample matrix/ properties agree with IOS?	**Yes**	
#10 Samples in proper container/ bottle?	**Yes**	
#11 Samples properly preserved?	**Yes**	
#12 Sample container(s) intact?	**Yes**	
#13 Sufficient sample amount for indicated test(s)?	**Yes**	
#14 All samples received within hold time?	**Yes**	

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

NonConformance:

Corrective Action Taken:

Nonconformance Documentation

Contact: _____ **Contacted by :** _____ **Date:** _____

Checklist reviewed by: _____ Date: 10.01.2020

Allison Johnson

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 09.30.2020 09.35.00 AM

Work Order #: 673890

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR-4

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	15.1	
#2 *Shipping container in good condition?	**N/A**	
#3 *Samples received on ice?	**No**	
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**	
#5 Custody Seals intact on sample bottles?	**N/A**	
#6*Custody Seals Signed and dated?	**N/A**	
#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)?	**Yes**	Xenco Midland
#18 Water VOC samples have zero headspace?	**N/A**	

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

Analyst: PH Device/Lot#:

Checklist completed by: Michael J Turner Date: 09.30.2020

Checklist reviewed by: Jessica Kramer Date: 09.30.2020

CARDINAL Laboratories

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

November 17, 2020

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: BAGLEY #2

Enclosed are the results of analyses for samples received by the laboratory on 11/13/20 14:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	11/13/2020	Sampling Date:	11/13/2020
Reported:	11/17/2020	Sampling Type:	Soil
Project Name:	BAGLEY #2	Sampling Condition:	Cool & Intact
Project Number:	13146	Sample Received By:	Tamara Oldaker
Project Location:	TARGA - LEA CO NM		

Sample ID: #1 SOUTH 0-1' (H003028-01)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/17/2020	ND	416	104	400	3.77	

Sample ID: #2 SOUTH 1-2' (H003028-02)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/17/2020	ND	416	104	400	3.77	

Sample ID: #2 EAST 0-1' (H003028-03)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/17/2020	ND	416	104	400	3.77	

Sample ID: #2 EAST 1-2' (H003028-04)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/17/2020	ND	416	104	400	3.77	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	11/13/2020	Sampling Date:	11/13/2020
Reported:	11/17/2020	Sampling Type:	Soil
Project Name:	BAGLEY #2	Sampling Condition:	Cool & Intact
Project Number:	13146	Sample Received By:	Tamara Oldaker
Project Location:	TARGA - LEA CO NM		

Sample ID: V 1 6' (H003028-05)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2020	ND	2.02	101	2.00	0.864	
Toluene*	<0.050	0.050	11/14/2020	ND	1.95	97.3	2.00	1.57	
Ethylbenzene*	<0.050	0.050	11/14/2020	ND	2.04	102	2.00	1.93	
Total Xylenes*	<0.150	0.150	11/14/2020	ND	5.83	97.2	6.00	1.98	
Total BTEX	<0.300	0.300	11/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *73.3-129*

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2020	ND	193	96.5	200	10.4	
DRO >C10-C28*	<10.0	10.0	11/16/2020	ND	220	110	200	22.2	
EXT DRO >C28-C36	<10.0	10.0	11/16/2020	ND					

Surrogate: 1-Chlorooctane *78.8 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *80.3 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Etech Environmental & Safety Solutions, Inc.	**BILL TO**	
Project Manager:	Joel Lowry	**P.O. #:**	
Address:	P.O. Box 301	**Company:**	Targa
City:	Lovington **State:** NM **Zip:** 88260	**Attn:**	Raul Gibson
Phone #:	(575) 396-2378 **Fax #:** (575) 396-1429	**Address:**	
Project #:	13146 **Project Owner:** Targa	**City:**	
Project Name:	Bagley #2	**State:**	**Zip:**
Project Location:	Rural Lea County, NM	**Phone #:**	
Sampler Name:	Spencer Blackwood	**Fax #:**	

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST												
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chloride	TPH (8015M)	BTEX (8021B)										
H003028																										
1	#1 South 0-1'	G	1			X					X		11/13/20		X											
2	#2 South 1-2'	G	2			X					X		11/13/20		X											
3	#2 East 0-1'	G	3			X					X		11/13/20		X											
4	#2 East 1-2'	G	4			X					X		11/13/20		X											
5	V1 6'	G	5			X					X		11/13/20			X	X									

Relinquished By:	**Date:** 11-13-20	**Received By:**	
	Time: 1455		
Relinquished By:	**Date:**	**Received By:**	
	Time:		

Delivered By: (Circle One)
Sampler - UPS - Bus - Other: -0.6c #113

Sample Condition		CHECKED BY: (Initials)
Cool	Intact	
☑ Yes	☑ Yes	TO
☐ No	☐ No	

Phone Result: ☐ Yes ☐ No **Add'l Phone #:**
Fax Result: ☐ Yes ☐ No **Add'l Fax #:**
REMARKS:

Please email results to pm@etechenv.com.

FORM-006
Revision 1.0

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

Appendix D
Photographic Log

Photographic Log

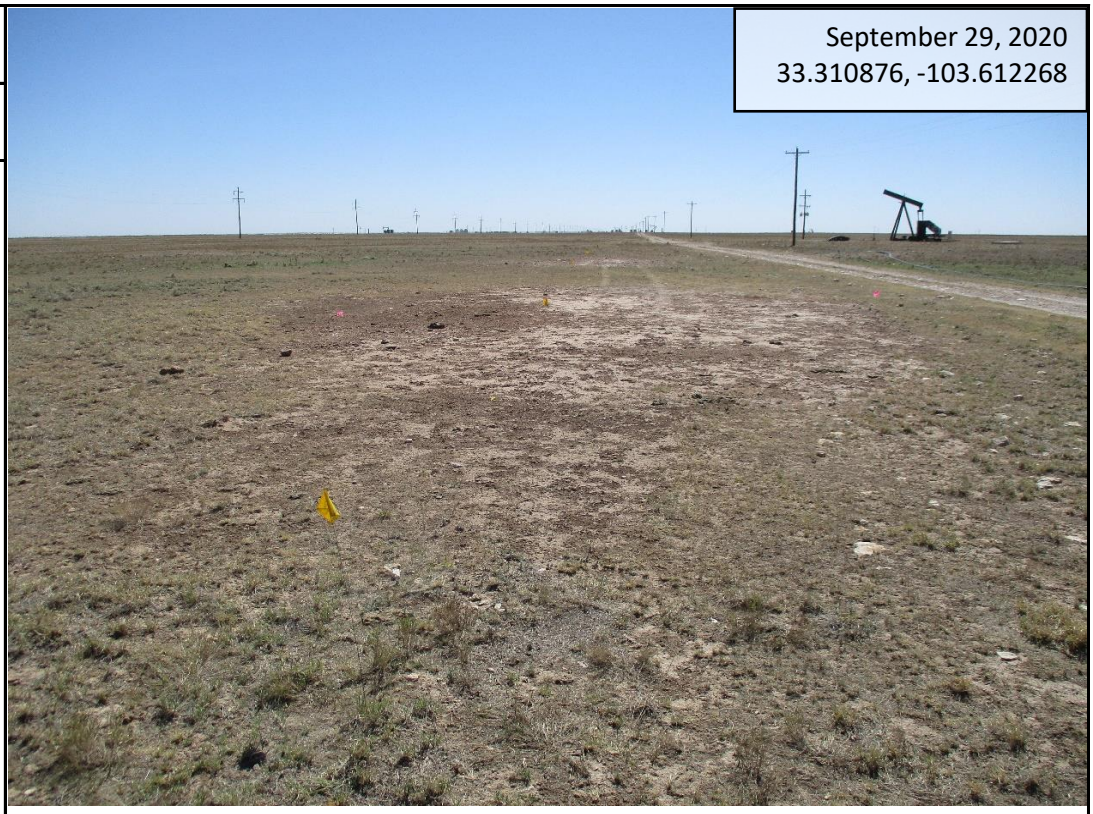
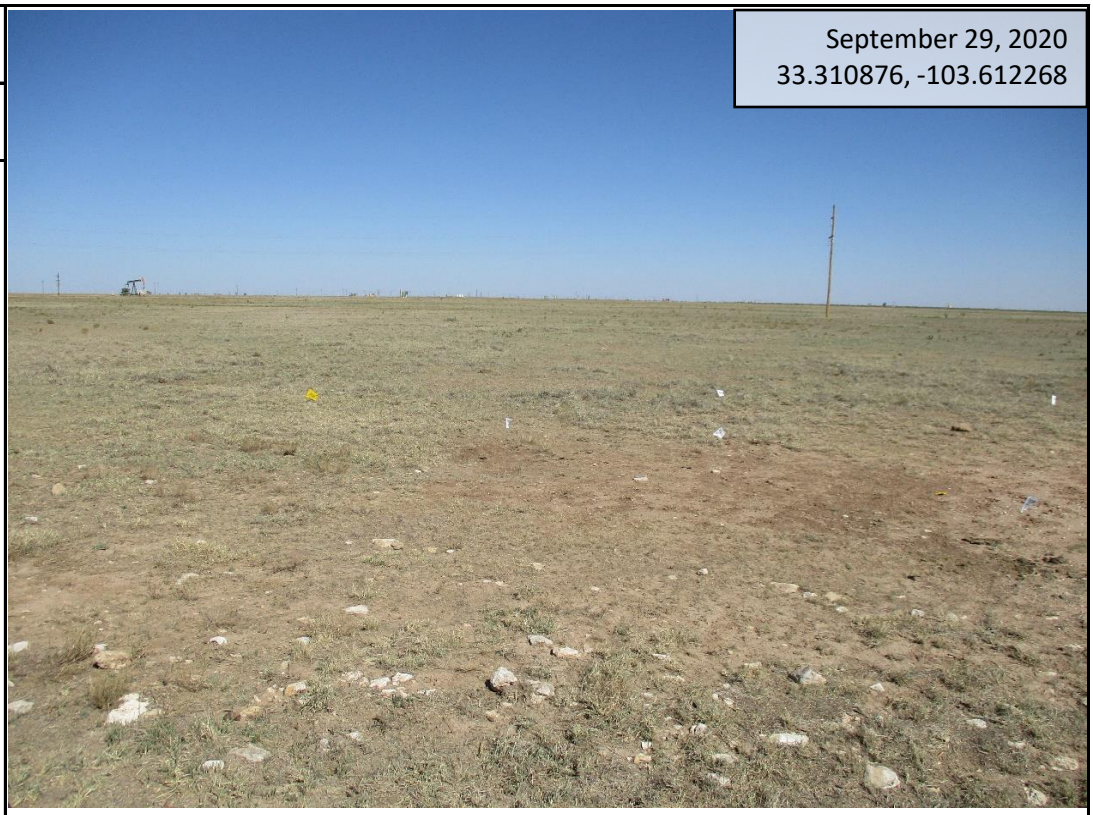
Photo Number: 1	
Photo Direction: South	
Photo Description: Impacted surface area.	

Photo Number: 2	
Photo Direction: Southwest	
Photo Description: Impacted surface area.	

Photographic Log

Photo Number: 3	
Photo Direction: Northwest	
Photo Description: Impacted surface area.	

Photo Number: 4	
Photo Direction: East	
Photo Description: Impacted surface area.	

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 13153

CONDITIONS OF APPROVAL

Operator:	OGRID:	Action Number:	Action Type:
TARGA MIDSTREAM SERVICES LLC 1000 Louisiana Ste 4300 Houston, TX77002	24650	13153	C-141

OCD Reviewer	Condition
ceads	None