State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	> 50 Ft. (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☑ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☑ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☑ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☑ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☑ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☑ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☑ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☑ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☑ No

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
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: Clyde Wilhoit Title: Maintenance Foreman

Signature: Clyde Wilhoit Date: 1-6-2020

email: cwilhoit@legacyreserves.com Telephone: 432-425-4137

OCD Only

Received by: _____ Date: _____

Form C-141
Page 5

State of New Mexico
Oil Conservation Division

Incident ID	
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: Clyde Wilhoit Title: Maintenance Foreman

Signature: Clyde Wilhoit Date: 1-6-2020

email: cwilhoit@legacyreserves.com Telephone: 432-425-4137

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

Site Assessment Report and Proposed Remediation Workplan

Legacy Reserves Operating, LP
Hamon Fed Com A #3H
Lea County, New Mexico
Unit Letter O, Section 6, Township 20 South, Range 34 East
Latitude 32.596216 North, Longitude 103.597601 West
NMOCD Reference No. 1RP-pending

Prepared By:

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

Daniel Dominguez

Joel W. Lowry

TABLE OF CONTENTS

1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Legacy Reserves Operating, LP, has prepared this Report for the Release Site known as the Hamon Fed Com A #3H. Details of the release are summarized below:

Location of Release Source

Latitude: 32.596216 Longitude: -103.597601

Provided GPS are in WGS84 format.

Site Name:	Hamon Fed Com A #3H	Site Type:	Well Head
Date Release Discovered:	11/22/2019	API # (if applicable):	30-025-41305

Unit Letter	Section	Township	Range	County
O	6	20S	34E	Lea

Surface Owner: [ ] State [ ] Federal [ ] Tribal [X] Private (Name Kenneth Smith Inc.)

Nature and Volume of Release

[X] Crude Oil	Volume Released (bbls) 36	Volume Recovered (bbls) 20
[ ] 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)
[ ] Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
[ ] Other (describe)	Volume/Weight Released	Volume/Weight Recovered

Cause of Release:
The release was attributed to the failure of the stuffing box on the pumping unit.

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?	>50 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.

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 for the Site is as follows:

Closure Criteria for Soil Impacted by a Release			
Probable Depth to Groundwater	**Constituent**	**Method**	**Limit**
>50 Ft.	Chloride	EPA 300.0 or SM4500 Cl B	10000 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	2500 mg/kg
	DRO + GRO	EPA SW-846 Method 8015M	1000 mg/kg
	BTEX	EPA SW-846 Methods 8021b or 8260b	50 mg/kg
	Benzene	EPA SW-846 Methods 8021b or 8260b	10 mg/kg

4.0 INITIAL SITE ASSESSMENT

On **December 11, 2019,** Etech conducted an initial site assessment. During the initial site assessment, a series of hand-augered soil bores (SP1 through SP5) were advanced within the release margins in an effort to determine the vertical extent of soil impacts. In addition, hand-augered soil bores (NH1, NH2, EH1, SH1, SH2, WH1 and WH2) 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 utilizing a Photoionization Detector (PID) and/or concentrations of chloride utilizing a Hach Quantab ® chloride test kit. A "Site & Sample Location Map" is provided as Figure 3. Field data and soil profile logs, if applicable, are provided as Appendix B.

Based on field observations and field test data, **nineteen (19)** delineation soil samples **(SP1 @ 1', SP2 @ 1', SP3 @ 1', SP4 @ 1', SP5 @ 1', NH1 @ Surf., NH1 @ 1', NH2 @ Surf., NH2 @ 1', EH1 @ Surf., EH1 @ 1', SH1 @ Surf., SH1 @ 1', SH2 @ Surf., SH2 @ 1', WH1 @ Surf., WH1 @ 1', WH2 @ Surf. and WH2 @ 1')** 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 1 Ft. bgs in the areas characterized by sample points SP1 through SP5 and the horizontal extent of affected soil impacted above the NMOCD Closure Criteria was adequately defined. 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, Legacy Reserves Operating, LP proposes the following remediation activities designed to advance the Site toward an approved closure:

•Utilizing mechanical equipment, excavate impacted soil affected above the NMOCD Closure Criteria within the release margins in the areas characterized by sample points SP1 through SP5. The floor and sidewalls of the excavated area will be advanced until laboratory analytical results from confirmation soil samples indicates concentrations of BTEX, TPH and chloride are below the NMOCD Closure Criteria.

•Excavated soil will be temporarily stockpiled on-site, atop an impermeable liner, pending final disposition at an NMOCD-permitted surface waste 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 ft. 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 **500 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 **800 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 graded to meet the needs of the well pad and compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable. The affected area is limited to an active well pad therefore reseeding will not be necessary.

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. Basis 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.

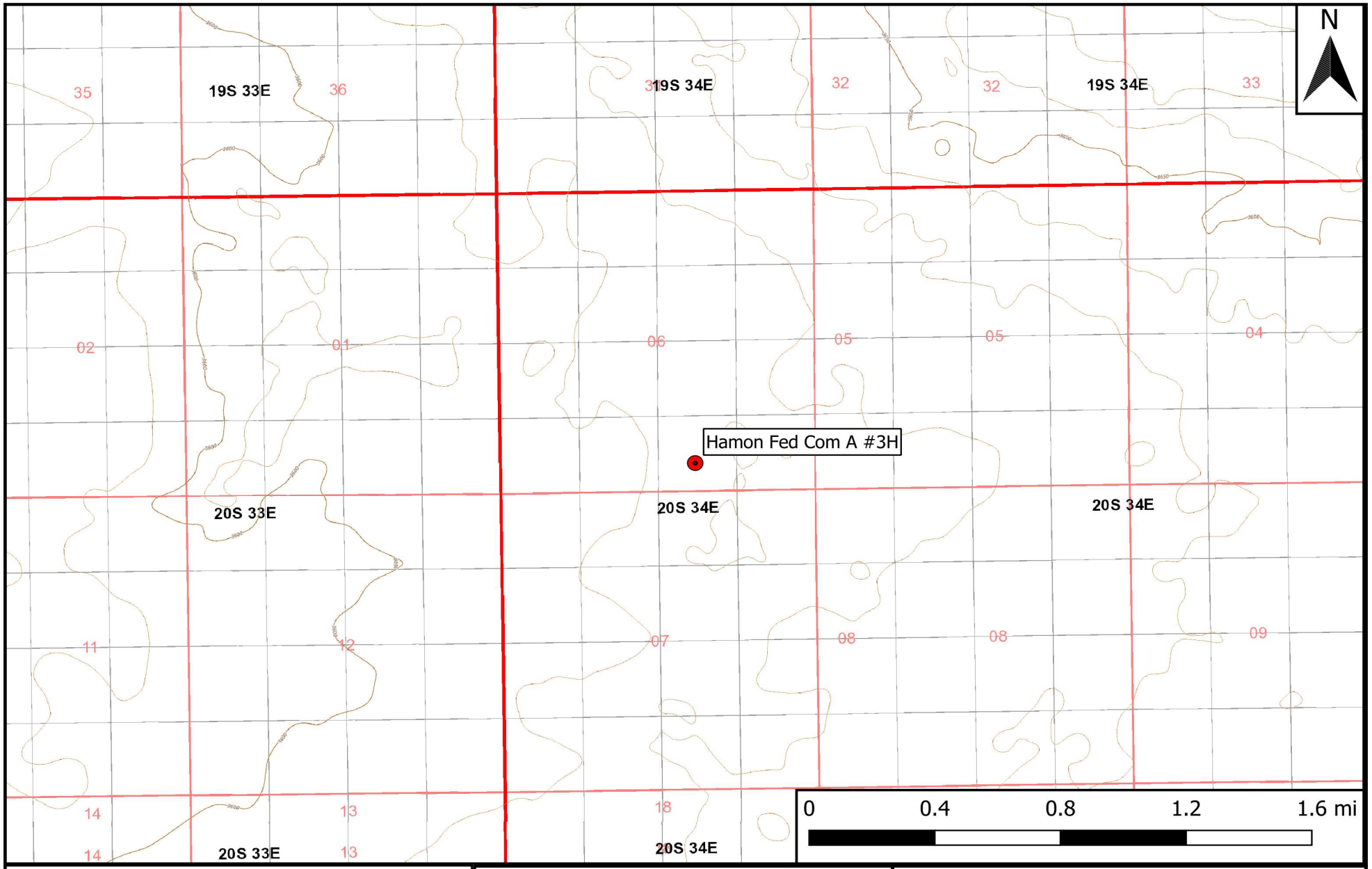
This report has been prepared for the benefit of Legacy Reserves Operating, LP. Use of the information contained in this report is prohibited within the consent of Etech and/or Legacy Reserves Operating, LP.

10.0 DISTRIBUTION

Legacy Reserves Operating, LP
303 W. Wall St.
Midland, TX 79701

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

Figure 1
Topographic Map



Legend

Site Location

Figure 1

Topographic Map

Legacy Reserves Operating, LP

Hamon Fed Com A #3H

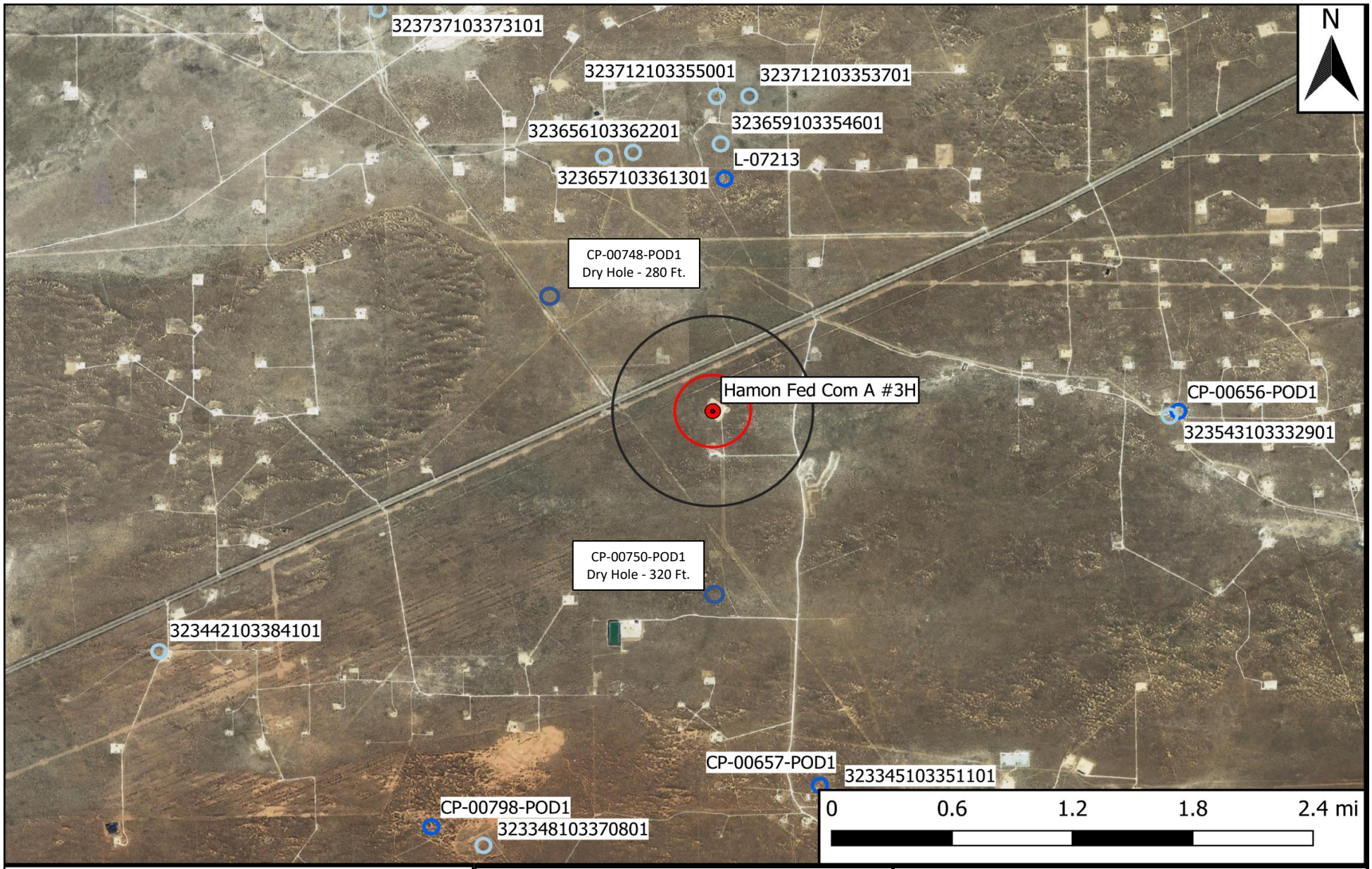
GPS: 32.596216, -103.597601

Lea County

eTECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 12/2/19

Figure 2
Aerial Proximity Map



Legend

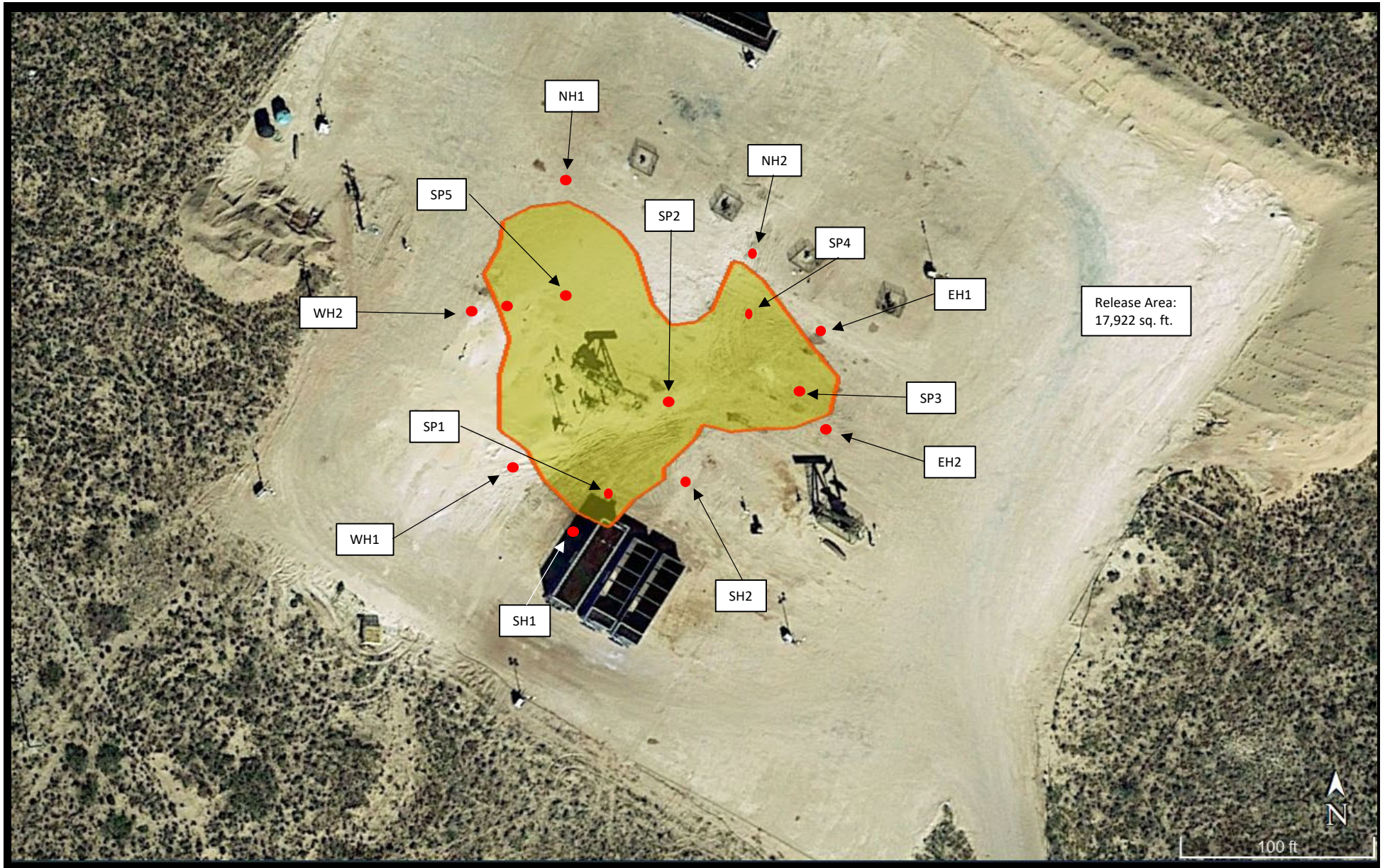
- Site Location
- 0.5 Mi Radius
- 1000 Ft Radius
- 1% Annual Flood Chance
- Surface Water
- Well - USGS
- Well - NMOSE
- High Karst
- Medium Karst
- Potash Mine Workings

Figure 2
Aerial Map
Legacy Reserves Operating, LP
Hamon Fed Com A #3H
GPS: 32.596216, -103.597601
Lea County

eTECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 1/6/20

Figure 3
Site and Sample Location Map



Legend:

- Affected Area
- Pipeline
- Sample Point

Figure 3

Site and Sample Location Map

Legacy Reserves Operating, LP

Hamon Fed Com A #3H

GPS: 32.596216, -103.597601

eTECH Environmental & Safety Solutions, Inc.

Drafted: Checked: jwl Date: 1/6/20

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

TABLE 1
CONCENTRATIONS OF BENZENE, BTEX TPH AND CHLORIDE IN SOIL
Legacy Reserves Operating, LP
Hamon Fed Com A #3H
NMOCD Ref. #: 1RP-pending

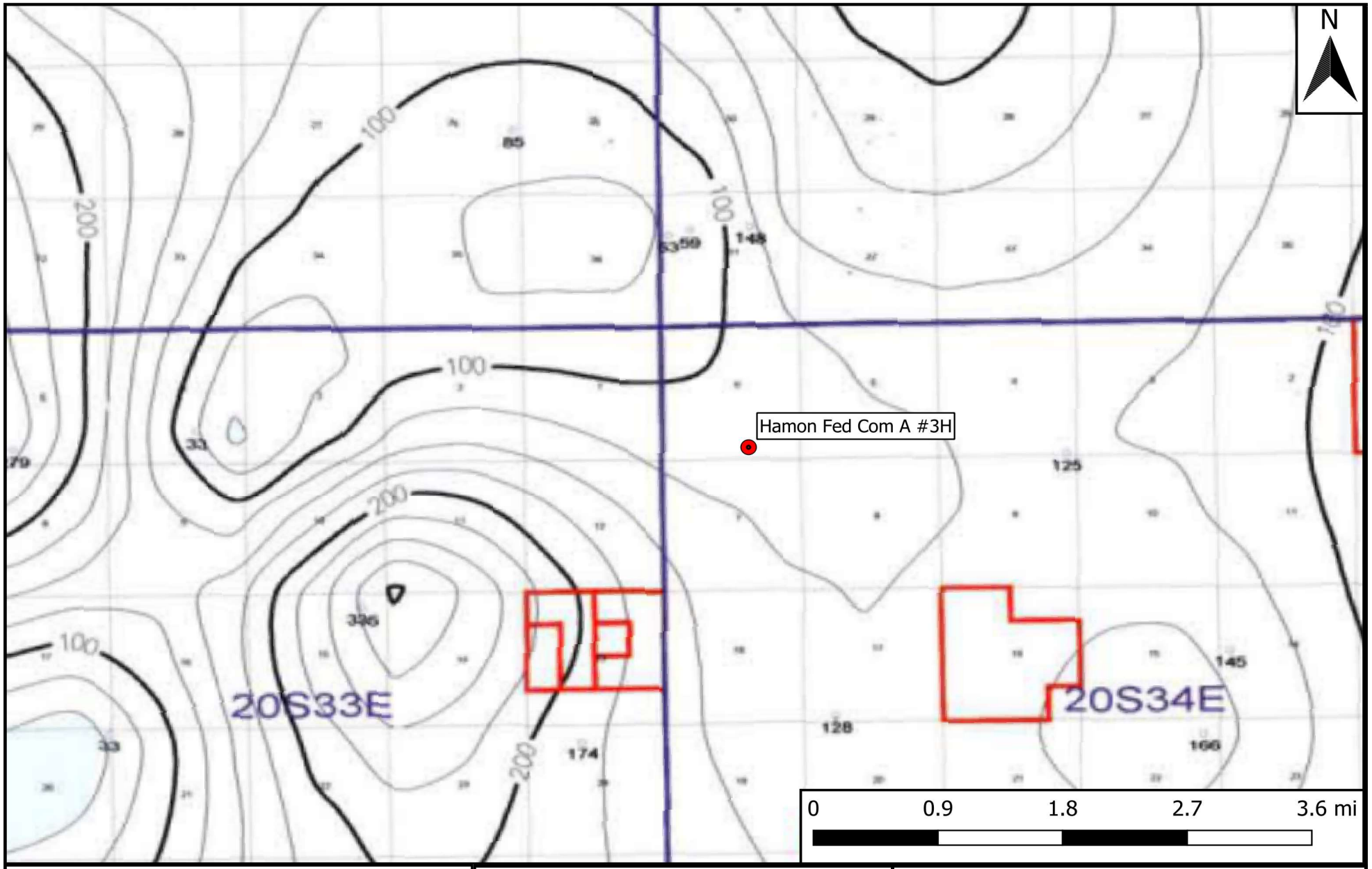
Sample ID	Date	Depth	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C_6-C_{10} (mg/kg)	DRO C_{10}-C_{28} (mg/kg)	GRO + DRO C_6-C_{28} (mg/kg)	ORO C_{28}-C_{36} (mg/kg)	TPH C_6-C_{36} (mg/kg)	Chloride (mg/kg)
SP1 @ 1'	12/11/2019	1'	In-Situ	<0.00200	0.0155	<50.0	274	274	<50.0	274	434
SP2 @ 1'	12/11/2019	1'	In-Situ	<0.00199	0.00669	<50.0	457	457	<50.0	457	269
SP3 @ 1'	12/11/2019	1'	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	353
SP4 @ 1'	12/11/2019	1'	In-Situ	<0.00200	0.00296	<49.9	259	259	<49.9	259	279
SP5 @ 1'	12/11/2019	1'	In-Situ	<0.00199	<0.00199	<50.0	422	422	50.7	473	461
NH1 @ Surf	12/11/2019	0'	In-Situ	<0.00202	<0.00202	<49.8	73.1	73.1	<49.8	73.1	143
NH1 @ 1'	12/11/2019	1'	In-Situ	<0.00202	<0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	131
NH2 @ Surf	12/11/2019	0'	In-Situ	<0.00199	<0.00199	<50.0	151	151	<50.0	151	1,460
NH2 @ 1'	12/11/2019	1'	In-Situ	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	244
EH1 @ Surf	12/11/2019	0'	In-Situ	<0.00200	<0.00200	<50.0	51.1	51.1	<50.0	51.1	3,500
EH1 @ 1'	12/11/2019	1'	In-Situ	<0.00199	<0.00199	<49.8	<49.8	<49.8	<49.8	<49.8	520
SH1 @ Surf	12/11/2019	0'	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	343
SH1 @ 1'	12/11/2019	1'	In-Situ	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	51
SH2 @ Surf	12/11/2019	0'	In-Situ	<0.00200	<0.00200	<49.9	521	521	100	621	2,160
SH2 @ 1'	12/11/2019	1'	In-Situ	<0.00198	<0.00198	<50.0	99.3	99.3	<50.0	99.3	2,840
WH1 @ Surf	12/11/2019	0'	In-Situ	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	23.8
WH1 @ 1'	12/11/2019	1'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	12.3
WH2 @ Surf	12/11/2019	0'	In-Situ	<0.00198	<0.00198	<49.9	1,000	1,000	196	1,200	592
WH2 @ 1'	12/11/2019	1'	In-Situ	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	449
Closure Criteria				**10**	**50**	**-**	**-**	**1,000**	**-**	**2,500**	**10,000**

NOTES:

- =

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
Legacy Reserves Operating, LP
Hamon Fed Com A #3H
GPS: 32.596216, -103.597601
Lea County

eTECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 12/2/19

New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 631605.3 **Northing (Y):** 3607392.63 **Radius:** 804.67

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	Twn	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
CP 00750 POD1		CP	LE	3	4		07	20S	34E	631639	3605834*	1558	320		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 631605.3 **Northing (Y):** 3607392.63 **Radius:** 1610

***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)

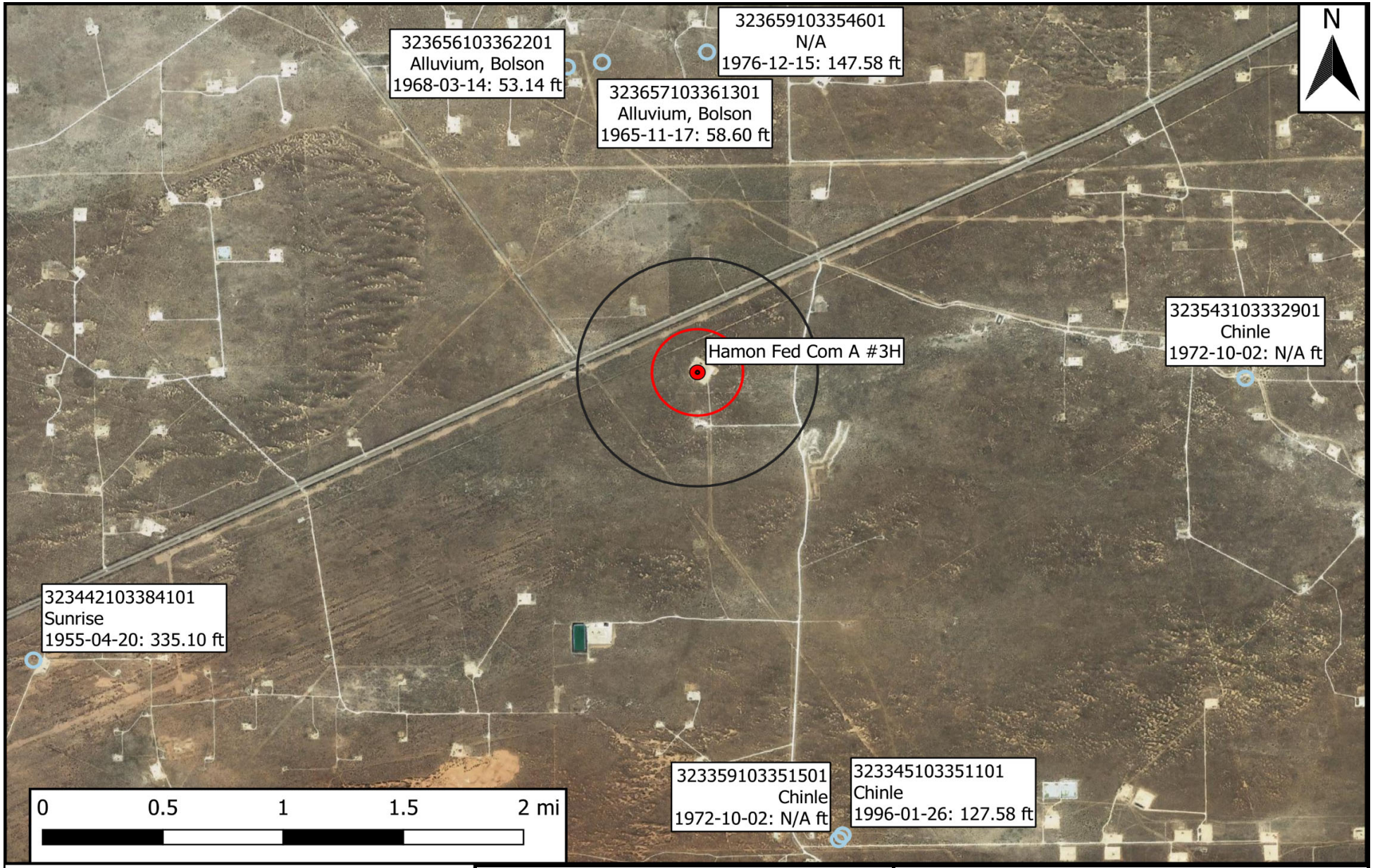
Well Tag	POD Number	Q64	Q16	Q4	Sec	Twn	Rng	X	Y
	CP 00750 POD1		3	4	07	20S	34E	631639	3605834*

Driller License: 421 **Driller Company:** GLENN'S WATER WELL SERVICE

Driller Name: GLENN, CLARK A."CORKY" (LD)

Drill Start Date:	06/20/1990	**Drill Finish Date:**	06/20/1990	**Plug Date:**	
Log File Date:	07/26/1990	**PCW Rcv Date:**		**Source:**	
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:		**Depth Well:**	320 feet	**Depth Water:**	

***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
Legacy Reserves Operating, LP
Hamon Fed Com A #3H
GPS: 32.596216, -103.597601
Lea County

eTECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 1/6/20

Revised June 1972

475940

STATE ENGINEER OFFICE

WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well Grace Drilling Co. Owner's Well No. _____

Street or Post Office Address P.O. Box 13480

City and State Odessa, TX 79768

'91 JUN 5 AM 10 47

STATE ENGINEER OFFICE
SANTA FE, NEW MEXICO

Well was drilled under Permit No. CP 748 and is located in the:

a. NE ¼ ____ ¼ ____ ¼ ____ ¼ of Section 1 Township 20 Range 33E N.M.P.M.

b. Tract No. _____ of Map No. _____ of the _____

c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ County.

d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor West Texas Water Well Service License No. WK 1184

Address 3432 W. University Odessa, TX 79764

Drilling Began 6-1-90 Completed 6-2-90 Type tools Air rotary Size of hole 8 3/4 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well _____ ft.

Completed well is ☐ shallow ☐ artesian. Depth to water upon completion of well _____ ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	Depth in Feet To	Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet Top	Depth in Feet Bottom	Length (feet)	Type of Shoe	Perforations From	Perforations To
NO	CASING							

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	Depth in Feet To	Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement

Section 5. PLUGGING RECORD

Plugging Contractor West Texas Water Well Service

Address _____

Plugging Method Pumped grout - neat cement

Date Well Plugged 6-2-90

Plugging approved by:

_____
State Engineer Representative

No.	Depth in Feet Top	Depth in Feet Bottom	Cubic Feet of Cement
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received June 19, 1991

Quad _____ FWL _____ FSL _____

File No. CP-748 Use OWD Location No. 20.33.1.24144

Section 6. LOG OF HOLE

Depth in Feet From	Depth in Feet To	Thickness in Feet	Color and Type of Material Encountered
0	12	12	Topsoil
12	20	8	Caliche
20	36	16	Sand
36	96	60	Red clay
96	100	4	Sand
100	120	20	Red shale
120	160	40	Red shale w/streaks of sandstone
160	280	120	Red shale w/streaks of blue shale

Section 7. REMARKS AND ADDITIONAL INFORMATION

Dry hole - plugged back w/neat cement

No casing was instaled

'91 JUN 19 AM 10:29
STATE ENGINEER OFFICE
ROSWELL, NEW MEXICO

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Robert E. Collis
Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.

Revised June 1972

STATE ENGINEER OFFICE

WELL RECORD

475954

Section 1. GENERAL INFORMATION

(A) Owner of well TXO Prod. Owner's Well No. _____

Street or Post Office Address c/o Glenn's Water Well Service,

City and State P.O. Box 692 Tatum, N.M. 88267

Well was drilled under Permit No. CP-750 and is located in the:

a. _____ ¼ _____ ¼ SW ¼ SE ¼ of Section 7 Township 20-S. Range 34-E. N.M.P.M.

b. Tract No. _____ of Map No. _____ of the _____

c. Lot No. _____ of Block No. _____ of the _____

Subdivision, recorded in _____ County.

d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor Glenn's Water Well Service, Inc. License No. WD 421

Address P.O. Box 692 Tatum, N.M. 88267

Drilling Began 6/20/90 Completed 6/20/90 Type tools rotary Size of hole 7 7/8 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 320 ft.

Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well _____ ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	Depth in Feet To	Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
			dry hole	

STATE ENGINEER OFFICE ROSWELL, NEW MEXICO '90 SEP 26 AM 8 29

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet Top	Depth in Feet Bottom	Length (feet)	Type of Shoe	Perforations From	Perforations To

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	Depth in Feet To	Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement

'90 SEP 7 AM 10 02 STATE ENGINEER OFFICE SANTA FE NEW MEXICO

Section 5. PLUGGING RECORD

Plugging Contractor _____

Address _____

Plugging Method well was plugged with dirt

Date Well Plugged _____

Plugging approved by:

_____ State Engineer Representative

No.	Depth in Feet Top	Depth in Feet Bottom	Cubic Feet of Cement
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received July 26, 1990 Quad _____ FWL _____ FSL _____

File No. CP-750 Use OWD Location No. 20.34.7.4300

Section 6. LOG OF HOLE

Depth in Feet From	Depth in Feet To	Thickness in Feet	Color and Type of Material Encountered
0	6	6	sand
6	16	10	caleche
16	20	4	sand
20	22	2	rock (soft)
22	32	10	sand
32	65	33	sandy clay
65	102	37	red clay
102	107	5	blue sand rock
107	118	11	brown shale
118	127	9	blue sand rock
127	130	3	brown shale
130	154	24	blue sand rock
154	159	5	limestome hard
159	178	19	red clay
178	191	13	brown shale
191	210	19	red clay
210	235	25	brown shale
235	278	43	brown shale (some light blue)
278	295	17	purple shale (some light blue)
295	306	11	yellow and blue clay
306	320	14	red clay

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Corky Jones
Driller

INSTRUCTIONS: This form should be execu[illegible] triplicate, preferably typewritten, and subm[illegible] to the appropriate district office of the State Engineer. All sections, except Se[illegible]on 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used a[illegible] record, only Section 1(a) and Section 5 need be completed.

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: United States | GO

Click to hideNews Bulletins

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

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 323656103362201

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

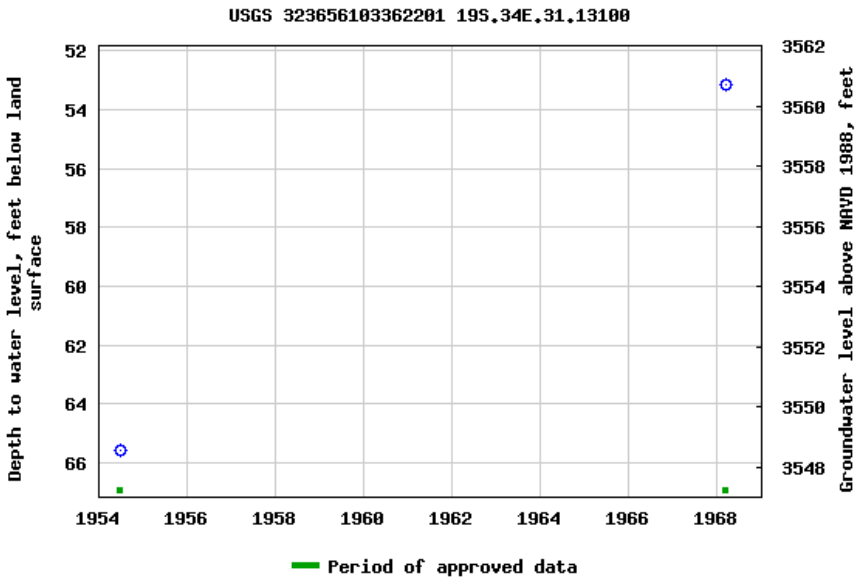
USGS 323656103362201 19S.34E.31.13100

Available data for this site | Groundwater: Field measurements | GO

Lea County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°36'56", Longitude 103°36'22" NAD27
Land-surface elevation 3,614 feet above NAVD88
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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



Breaks in the plot represent a gap of at least one year between field measurements.
Download a presentation-quality graph

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility Plug-Ins FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2019-12-02 13:40:16 EST
0.58 0.52 nadww01

Click to hideNews Bulletins

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

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 323657103361301

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

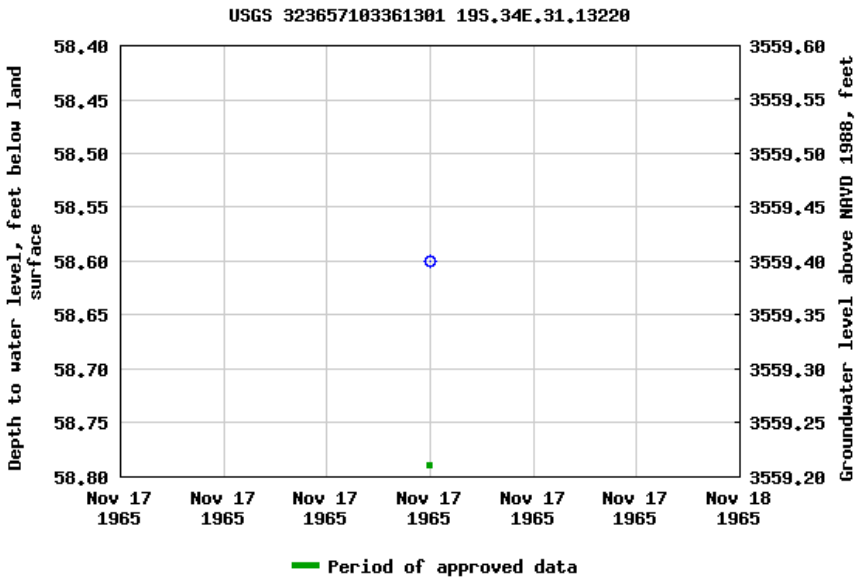
USGS 323657103361301 19S.34E.31.13220

Available data for this site Groundwater: Field measurements ▼ GO

Lea County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°36'57", Longitude 103°36'13" NAD27
Land-surface elevation 3,618 feet above NAVD88
The depth of the well is 66 feet below land surface.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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



Breaks in the plot represent a gap of at least one year between field measurements.
Download a presentation-quality graph

/

Click to hideNews Bulletins

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

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 323659103354601

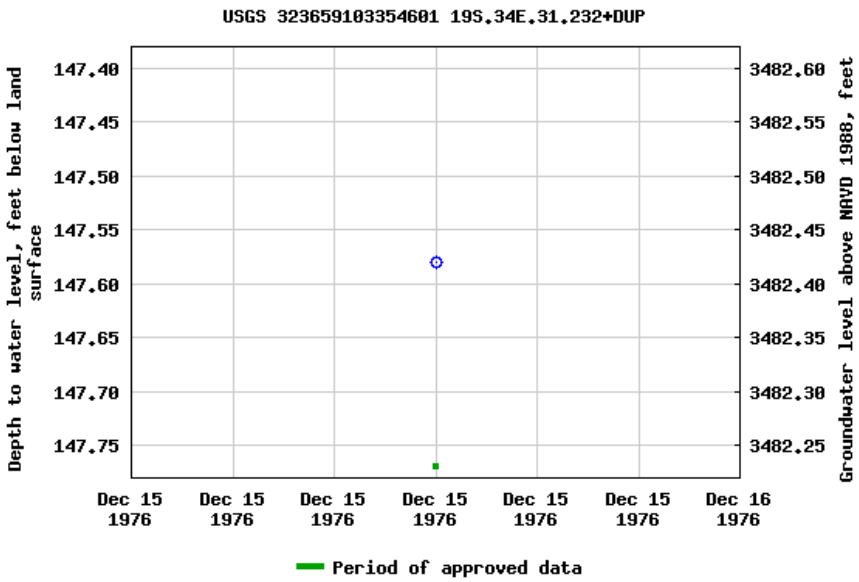
Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 323659103354601 19S.34E.31.232+DUP

Available data for this site Groundwater: Field measurements ▼ GO
Lea County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°36'59", Longitude 103°35'46" NAD27
Land-surface elevation 3,630 feet above NAVD88

Output formats

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



Breaks in the plot represent a gap of at least one year between field measurements.
Download a presentation-quality graph

/

Click to hideNews Bulletins

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

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 323345103351101

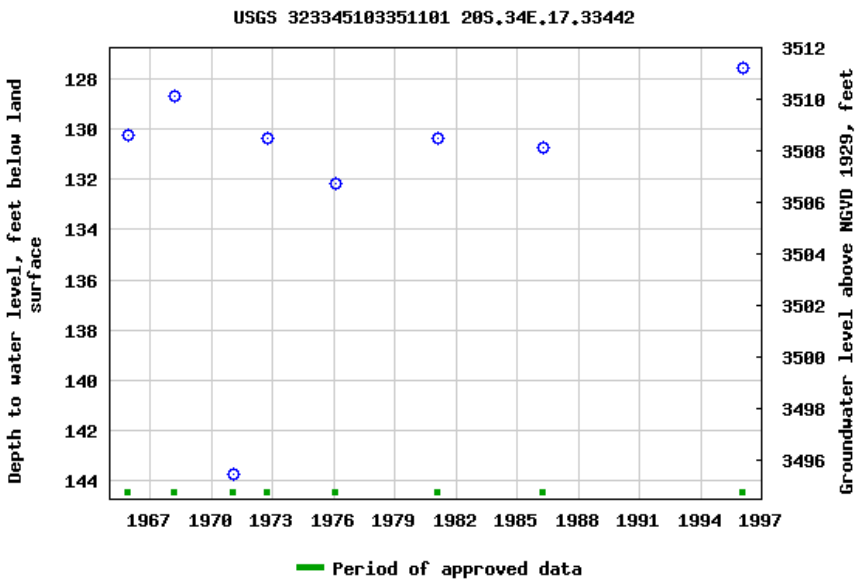
Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 323345103351101 20S.34E.17.33442

Available data for this site Groundwater: Field measurements ▼ GO
Lea County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°34'00", Longitude 103°35'14" NAD27
Land-surface elevation 3,639.00 feet above NGVD29
The depth of the well is 160 feet below land surface.
This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

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



Breaks in the plot represent a gap of at least one year between field measurements.
Download a presentation-quality graph

/

Click to hideNews Bulletins

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

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 323442103384101

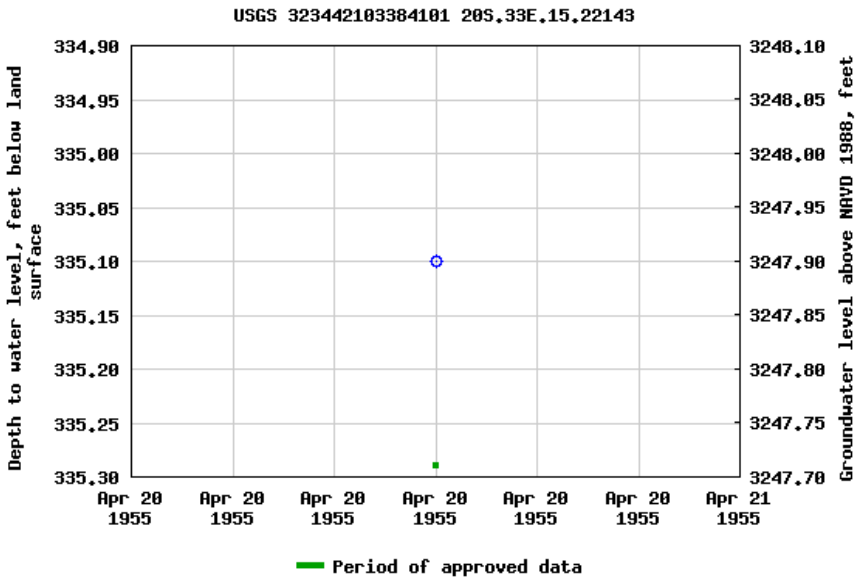
Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 323442103384101 20S.33E.15.22143

Available data for this site Groundwater: Field measurements ▼ GO
Lea County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°34'42", Longitude 103°38'41" NAD27
Land-surface elevation 3,583 feet above NAVD88
This well is completed in the Sunrise Formation (231SNRS) local aquifer.

Output formats

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



Breaks in the plot represent a gap of at least one year between field measurements.
Download a presentation-quality graph

/

Appendix B
Field Data and Soil Profile Logs

eTECH Environmental & Safety Solutions, Inc.

Soil Profile

Date: 12/11/2019

Project: Hamon Fed Com A #3H

Project Number: 11552 Latitude: 32.596216 Longitude: -103.597601

Depth (ft. bgs)	Description
1	0-8" Imported Fill / Caliche
2 TD	Tan Sand
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	
31	
32	
33	
34	
35	
36	
37	
38	
39	
40	

eTECH Environmental & Safety Solutions, Inc.

Sample Log

Date: 12/11/2019

Project: Hamon Fed Com A #3H

Project Number: 11552 Latitude: 32.596216 Longitude: -103.597601

Sample ID	PID/Odor	Chloride Conc.	GPS
NH 1@ surface	None	348	32.59654, -103.59763
NH 1@ 1'	None	280	" "
NH 2@ surface	None	416	32.59641, -103.59731
NH 2@ 1'	NONE	464	
EH 1@ surface	NONE	2584	32.59670, -103.59719
EH 1@ 1'	NONE	664	
EH 2@ surface	NONE	2156	32.59614, -103.59719
EH 2@ 1'	NONE	1628	" "
SH 1@ surface	None	312	32.59602, -103.59761
SH 1@ 1'	None	348	" "
SH 2@ surface	NONE	1872	32.59606, -103.59743
SH 2 @ 1'	NONE	508	" "
WH 1@ surface	NONE	196	32.59612, -103.59771
WH 1@ 1'	NONE	7124	" "
WH 2@ surface	NONE	720	32.59634, -103.59777
WH 2@ 1'	Nine	312	" "
SP 1@ 1'	NONE	508	32.59605, -103.59755
SP 2@ 1' Light	~~None~~	312	32.59620, -103.59746
SP 3@ 1'	NONE	508	32.59621, -103.59724
SP 4@ 1'	None	424	32.596327, -103.597306
SP 5@ 1'	NONE	464	32.596350, -103.59763
WH 2 b@ surface	None	348	
WH 2 b@ 1'	None	464	
NH 2 b@ surface	NONE	1520	
NH 2 b@ 1	NONE	608	
NH 2 C @ surface	NONE	2504	
NH 2 C @ 1'	NONE	2504	
EH 2 b@ surface	NONE	<2514	
EH 2 b@ 1'	NONE	2156	
EH 1 b@ surface	NONE	1628	
EH 1 b@ 1'	NONE	312	
SH 2 b@ surface	NONE	248	
SH 2 b @ 1'	NONE	>124	
~~WH 2 b @ surface~~			
~~WH 2 b @ 1'~~			

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

Appendix C
Laboratory Analytical Reports

Analytical Report 646599

for

Etech Environmental & Safety Solution, Inc

Project Manager: Joel Lowry

Hamon Fed Com #3H

11552

23-DEC-19

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

23-DEC-19

Project Manager: **Joel Lowry**
Etech Environmental & Safety Solution, Inc
P.O. Box 8469
Midland, TX 79708

Reference: XENCO Report No(s): **646599**
Hamon Fed Com #3H
Project Address: Rural Lea

Joel Lowry:

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 XENCO Report Number(s) 646599. 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 XENCO Laboratories. 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. 646599 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 XENCO Laboratories 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 Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

Sample Cross Reference 646599

Etech Environmental & Safety Solution, Inc, Midland, TX

Hamon Fed Com #3H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SP1 @ 1'	S	12-11-19 00:00	1 ft	646599-001
SP2 @ 1'	S	12-11-19 00:00	1 ft	646599-002
SP3 @ 1'	S	12-11-19 00:00	1 ft	646599-003
SP4 @ 1'	S	12-11-19 00:00	1 ft	646599-004
SP5 @ 1'	S	12-11-19 00:00	1 ft	646599-005
NH1 @ Surf	S	12-11-19 00:00		646599-006
NH1 @ 1'	S	12-11-19 00:00	1 ft	646599-007
NH2 @ Surf	S	12-11-19 00:00		646599-008
NH2 @ 1'	S	12-11-19 00:00	1 ft	646599-009
EH1 @ Surf	S	12-11-19 00:00		646599-010
EH1 @ 1'	S	12-11-19 00:00	1 ft	646599-011
SH1 @ Surf	S	12-11-19 00:00		646599-012
SH1 @ 1'	S	12-11-19 00:00	1 ft	646599-013
SH2 @ Surf	S	12-11-19 00:00		646599-014
SH2 @ 1'	S	12-11-19 00:00	1 ft	646599-015
WH1 @ Surf	S	12-11-19 00:00		646599-016
WH1 @ 1'	S	12-11-19 00:00	1 ft	646599-017
WH2 @ Surf	S	12-11-19 00:00		646599-018
WH2 @ 1'	S	12-11-19 00:00	1 ft	646599-019

CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Hamon Fed Com #3H

Project ID: *11552*
Work Order Number(s): *646599*

Report Date: *23-DEC-19*
Date Received: *12/17/2019*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3111044 Chloride by EPA 300
Lab Sample ID 646599-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 646599-001, -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.

Batch: LBA-3111086 Chloride by EPA 300
Lab Sample ID 646620-002 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 646599-011, -012, -013, -014, -015, -016, -017, -018, -019.
The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3111382 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.
Lab Sample ID 646599-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). m,p-Xylenes recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 646599-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015, -016, -017, -018, -019.
The Laboratory Control Sample for m,p-Xylenes is within laboratory Control Limits, therefore the data was accepted.

Certificate of Analysis Summary 646599

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Hamon Fed Com #3H

Project Id: 11552
Contact: Joel Lowry
Project Location: Rural Lea

Date Received in Lab: Tue Dec-17-19 12:45 pm
Report Date: 23-DEC-19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	646599-001		646599-002		646599-003		646599-004		646599-005		646599-006	
	Field Id:	SP1 @ 1'		SP2 @ 1'		SP3 @ 1'		SP4 @ 1'		SP5 @ 1'		NH1 @ Surf	
	Depth:	1- ft		1- ft		1- ft		1- ft		1- ft			
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Dec-11-19 00:00		Dec-11-19 00:00		Dec-11-19 00:00		Dec-11-19 00:00		Dec-11-19 00:00		Dec-11-19 00:00	
BTEX by EPA 8021B	*Extracted:*	Dec-19-19 14:00		Dec-19-19 14:00		Dec-19-19 14:00		Dec-19-19 14:00		Dec-19-19 14:00		Dec-19-19 14:00	
	Analyzed:	Dec-21-19 16:15		Dec-21-19 16:35		Dec-21-19 16:56		Dec-21-19 17:16		Dec-21-19 17:36		Dec-21-19 17:57	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00202	0.00202
Toluene		0.00305	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00202	0.00202
Ethylbenzene		<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00202	0.00202
m,p-Xylenes		0.00407	0.00400	<0.00398	0.00398	<0.00400	0.00400	<0.00401	0.00401	<0.00398	0.00398	<0.00403	0.00403
o-Xylene		0.00838	0.00200	0.00669	0.00199	<0.00200	0.00200	0.00296	0.00200	<0.00199	0.00199	<0.00202	0.00202
Total Xylenes		0.0125	0.00200	0.00669	0.00199	<0.00200	0.00200	0.00296	0.00200	<0.00199	0.00199	<0.00202	0.00202
Total BTEX		0.0155	0.00200	0.00669	0.00199	<0.00200	0.00200	0.00296	0.00200	<0.00199	0.00199	<0.00202	0.00202
Chloride by EPA 300	*Extracted:*	Dec-18-19 13:20		Dec-18-19 13:20		Dec-18-19 13:20		Dec-18-19 13:20		Dec-18-19 13:20		Dec-18-19 13:20	
	Analyzed:	Dec-18-19 19:04		Dec-18-19 19:24		Dec-18-19 19:31		Dec-18-19 19:51		Dec-18-19 19:58		Dec-18-19 20:04	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		434	4.99	269	5.03	353	4.98	279	5.00	461	5.01	143	4.97
TPH By SW8015 Mod	*Extracted:*	Dec-18-19 08:00		Dec-18-19 08:00		Dec-18-19 08:00		Dec-18-19 08:00		Dec-18-19 08:00		Dec-18-19 08:00	
	Analyzed:	Dec-18-19 19:57		Dec-18-19 21:01		Dec-18-19 21:22		Dec-18-19 21:43		Dec-18-19 22:03		Dec-18-19 22:24	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.9	49.9	<50.0	50.0	<49.8	49.8
Diesel Range Organics (DRO)		274	50.0	457	50.0	<49.9	49.9	259	49.9	422	50.0	73.1	49.8
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.9	49.9	50.7	50.0	<49.8	49.8
Total TPH		274	50.0	457	50.0	<49.9	49.9	259	49.9	473	50.0	73.1	49.8

Jessica Kramer
Project Assistant

Certificate of Analysis Summary 646599

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Hamon Fed Com #3H

Project Id: 11552
Contact: Joel Lowry
Project Location: Rural Lea

Date Received in Lab: Tue Dec-17-19 12:45 pm
Report Date: 23-DEC-19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	646599-007		646599-008		646599-009		646599-010		646599-011		646599-012	
	Field Id:	NH1 @ 1'		NH2 @ Surf		NH2 @ 1'		EH1 @ Surf		EH1 @ 1'		SH1 @ Surf	
	Depth:	1- ft				1- ft				1- ft			
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Dec-11-19 00:00		Dec-11-19 00:00		Dec-11-19 00:00		Dec-11-19 00:00		Dec-11-19 00:00		Dec-11-19 00:00	
BTEX by EPA 8021B	***Extracted:***	Dec-19-19 14:00		Dec-19-19 14:00		Dec-19-19 14:00		Dec-19-19 14:00		Dec-19-19 14:00		Dec-19-19 14:00	
	Analyzed:	Dec-21-19 18:17		Dec-21-19 18:38		Dec-21-19 18:58		Dec-21-19 19:19		Dec-21-19 20:58		Dec-21-19 21:18	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00202	0.00202	<0.00199	0.00199	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Toluene		<0.00202	0.00202	<0.00199	0.00199	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Ethylbenzene		<0.00202	0.00202	<0.00199	0.00199	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
m,p-Xylenes		<0.00403	0.00403	<0.00398	0.00398	<0.00402	0.00402	<0.00399	0.00399	<0.00398	0.00398	<0.00399	0.00399
o-Xylene		<0.00202	0.00202	<0.00199	0.00199	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Total Xylenes		<0.00202	0.00202	<0.00199	0.00199	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Total BTEX		<0.00202	0.00202	<0.00199	0.00199	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Chloride by EPA 300	***Extracted:***	Dec-18-19 13:20		Dec-18-19 13:20		Dec-18-19 13:20		Dec-18-19 13:20		Dec-18-19 16:30		Dec-18-19 16:30	
	Analyzed:	Dec-18-19 20:11		Dec-18-19 20:17		Dec-18-19 20:24		Dec-18-19 20:31		Dec-18-19 18:01		Dec-18-19 18:17	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		131	5.00	1460	5.02	244	4.96	3500	25.0	520	4.96	343	4.99
TPH By SW8015 Mod	***Extracted:***	Dec-18-19 08:00		Dec-18-19 08:00		Dec-18-19 08:00		Dec-18-19 08:00		Dec-18-19 08:00		Dec-18-19 08:00	
	Analyzed:	Dec-18-19 22:45		Dec-18-19 23:06		Dec-18-19 23:27		Dec-18-19 23:48		Dec-19-19 00:30		Dec-19-19 00:51	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.8	49.8	<49.9	49.9
Diesel Range Organics (DRO)		<49.9	49.9	151	50.0	<49.9	49.9	51.1	50.0	<49.8	49.8	<49.9	49.9
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.8	49.8	<49.9	49.9
Total TPH		<49.9	49.9	151	50.0	<49.9	49.9	51.1	50.0	<49.8	49.8	<49.9	49.9

Jessica Kramer
Project Assistant

Certificate of Analysis Summary 646599

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Hamon Fed Com #3H

Project Id: 11552
Contact: Joel Lowry
Project Location: Rural Lea

Date Received in Lab: Tue Dec-17-19 12:45 pm
Report Date: 23-DEC-19
Project Manager: Jessica Kramer

Analysis Requested		646599-013		646599-014		646599-015		646599-016		646599-017		646599-018	
	Lab Id:	646599-013		646599-014		646599-015		646599-016		646599-017		646599-018	
	Field Id:	SH1 @ 1'		SH2 @ Surf		SH2 @ 1'		WH1 @ Surf		WH1 @ 1'		WH2 @ Surf	
	Depth:	1- ft				1- ft				1- ft			
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Dec-11-19 00:00		Dec-11-19 00:00		Dec-11-19 00:00		Dec-11-19 00:00		Dec-11-19 00:00		Dec-11-19 00:00	
BTEX by EPA 8021B	***Extracted:***	Dec-19-19 14:00		Dec-19-19 14:00		Dec-19-19 14:00		Dec-19-19 14:00		Dec-19-19 14:00		Dec-19-19 14:00	
	Analyzed:	Dec-21-19 21:39		Dec-21-19 21:59		Dec-21-19 22:20		Dec-21-19 22:40		Dec-21-19 23:00		Dec-21-19 23:21	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00202	0.00202	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198
Toluene		<0.00202	0.00202	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198
Ethylbenzene		<0.00202	0.00202	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198
m,p-Xylenes		<0.00403	0.00403	<0.00401	0.00401	<0.00396	0.00396	<0.00398	0.00398	<0.00400	0.00400	<0.00397	0.00397
o-Xylene		<0.00202	0.00202	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198
Total Xylenes		<0.00202	0.00202	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198
Total BTEX		<0.00202	0.00202	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198
Chloride by EPA 300	***Extracted:***	Dec-18-19 16:30		Dec-18-19 16:30		Dec-18-19 16:30		Dec-18-19 16:30		Dec-18-19 16:30		Dec-18-19 16:30	
	Analyzed:	Dec-18-19 18:22		Dec-18-19 18:27		Dec-19-19 12:09		Dec-18-19 19:35		Dec-18-19 19:40		Dec-18-19 19:45	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		51.0	4.98	2160	25.2	2840	25.2	23.8	4.96	12.3	5.03	592	5.00
TPH By SW8015 Mod	***Extracted:***	Dec-18-19 08:00		Dec-18-19 08:00		Dec-18-19 08:00		Dec-18-19 08:00		Dec-18-19 08:00		Dec-18-19 08:00	
	Analyzed:	Dec-19-19 01:12		Dec-19-19 01:33		Dec-19-19 01:54		Dec-19-19 02:15		Dec-19-19 02:36		Dec-19-19 02:58	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.9	49.9
Diesel Range Organics (DRO)		<50.0	50.0	521	49.9	99.3	50.0	<49.9	49.9	<50.0	50.0	1000	49.9
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	100	49.9	<50.0	50.0	<49.9	49.9	<50.0	50.0	196	49.9
Total TPH		<50.0	50.0	621	49.9	99.3	50.0	<49.9	49.9	<50.0	50.0	1200	49.9

Jessica Kramer
Project Assistant

Certificate of Analysis Summary 646599

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Hamon Fed Com #3H

Project Id: 11552
Contact: Joel Lowry
Project Location: Rural Lea

Date Received in Lab: Tue Dec-17-19 12:45 pm
Report Date: 23-DEC-19
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	646599-019					
	Field Id:	WH2 @ 1'					
	Depth:	1- ft					
	Matrix:	SOIL					
	Sampled:	Dec-11-19 00:00					
BTEX by EPA 8021B	***Extracted:***	Dec-19-19 14:00					
	Analyzed:	Dec-21-19 23:41					
	Units/RL:	mg/kg	RL				
Benzene		<0.00201	0.00201				
Toluene		<0.00201	0.00201				
Ethylbenzene		<0.00201	0.00201				
m,p-Xylenes		<0.00402	0.00402				
o-Xylene		<0.00201	0.00201				
Total Xylenes		<0.00201	0.00201				
Total BTEX		<0.00201	0.00201				
Chloride by EPA 300	***Extracted:***	Dec-18-19 16:30					
	Analyzed:	Dec-18-19 19:50					
	Units/RL:	mg/kg	RL				
Chloride		449	4.98				
TPH By SW8015 Mod	***Extracted:***	Dec-18-19 08:00					
	Analyzed:	Dec-19-19 03:19					
	Units/RL:	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0				
Diesel Range Organics (DRO)		<50.0	50.0				
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0				
Total TPH		<50.0	50.0				

Jessica Kramer
Project Assistant

Certificate of Analytical Results 646599

Etech Environmental & Safety Solution, Inc, Midland, TX

Hamon Fed Com #3H

Sample Id:	**SP1 @ 1'**	Matrix:	Soil	Date Received:	12.17.19 12.45
Lab Sample Id:	646599-001	Date Collected:	12.11.19 00.00	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.18.19 13.20	Basis:	Wet Weight
Seq Number:	3111044				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**434**	4.99	mg/kg	12.18.19 19.04		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.18.19 08.00	Basis:	Wet Weight
Seq Number:	3111076				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.18.19 19.57	U	1
Diesel Range Organics (DRO)	C10C28DRO	**274**	50.0	mg/kg	12.18.19 19.57		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.18.19 19.57	U	1
Total TPH	PHC635	**274**	50.0	mg/kg	12.18.19 19.57		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-135	12.18.19 19.57	
o-Terphenyl	84-15-1	110	%	70-135	12.18.19 19.57	

Certificate of Analytical Results 646599

Etech Environmental & Safety Solution, Inc, Midland, TX

Hamon Fed Com #3H

Sample Id:	**SP1 @ 1'**	Matrix:	Soil	Date Received:	12.17.19 12.45
Lab Sample Id:	646599-001	Date Collected:	12.11.19 00.00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.19.19 14.00	Basis:	Wet Weight
Seq Number:	3111382				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.21.19 16.15	U	1
Toluene	108-88-3	**0.00305**	0.00200	mg/kg	12.21.19 16.15		1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.21.19 16.15	U	1
m,p-Xylenes	179601-23-1	**0.00407**	0.00400	mg/kg	12.21.19 16.15		1
o-Xylene	95-47-6	**0.00838**	0.00200	mg/kg	12.21.19 16.15		1
Total Xylenes	1330-20-7	**0.0125**	0.00200	mg/kg	12.21.19 16.15		1
Total BTEX		**0.0155**	0.00200	mg/kg	12.21.19 16.15		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	119	%	70-130	12.21.19 16.15	
4-Bromofluorobenzene	460-00-4	103	%	70-130	12.21.19 16.15	

Certificate of Analytical Results 646599

Etech Environmental & Safety Solution, Inc, Midland, TX

Hamon Fed Com #3H

Sample Id:	**SP2 @ 1'**	Matrix:	Soil	Date Received:	12.17.19 12.45
Lab Sample Id:	646599-002	Date Collected:	12.11.19 00.00	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.18.19 13.20	Basis:	Wet Weight
Seq Number:	3111044				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**269**	5.03	mg/kg	12.18.19 19.24		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.18.19 08.00	Basis:	Wet Weight
Seq Number:	3111076				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.18.19 21.01	U	1
Diesel Range Organics (DRO)	C10C28DRO	**457**	50.0	mg/kg	12.18.19 21.01		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.18.19 21.01	U	1
Total TPH	PHC635	**457**	50.0	mg/kg	12.18.19 21.01		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-135	12.18.19 21.01	
o-Terphenyl	84-15-1	116	%	70-135	12.18.19 21.01	

Certificate of Analytical Results 646599

Etech Environmental & Safety Solution, Inc, Midland, TX

Hamon Fed Com #3H

Sample Id:	**SP2 @ 1'**	Matrix:	Soil	Date Received:	12.17.19 12.45
Lab Sample Id:	646599-002	Date Collected:	12.11.19 00.00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.19.19 14.00	Basis:	Wet Weight
Seq Number:	3111382				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.21.19 16.35	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.21.19 16.35	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.21.19 16.35	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.21.19 16.35	U	1
o-Xylene	95-47-6	**0.00669**	0.00199	mg/kg	12.21.19 16.35		1
Total Xylenes	1330-20-7	**0.00669**	0.00199	mg/kg	12.21.19 16.35		1
Total BTEX		**0.00669**	0.00199	mg/kg	12.21.19 16.35		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	111	%	70-130	12.21.19 16.35	
4-Bromofluorobenzene	460-00-4	107	%	70-130	12.21.19 16.35	

Certificate of Analytical Results 646599

Etech Environmental & Safety Solution, Inc, Midland, TX

Hamon Fed Com #3H

Sample Id:	**SP3 @ 1'**	Matrix:	Soil	Date Received:	12.17.19 12.45
Lab Sample Id:	646599-003	Date Collected:	12.11.19 00.00	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.18.19 13.20	Basis:	Wet Weight
Seq Number:	3111044				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**353**	4.98	mg/kg	12.18.19 19.31		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.18.19 08.00	Basis:	Wet Weight
Seq Number:	3111076				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.18.19 21.22	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	12.18.19 21.22	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.18.19 21.22	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	12.18.19 21.22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	12.18.19 21.22	
o-Terphenyl	84-15-1	105	%	70-135	12.18.19 21.22	

Certificate of Analytical Results 646599

Etech Environmental & Safety Solution, Inc, Midland, TX

Hamon Fed Com #3H

Sample Id:	**SP3 @ 1'**	Matrix:	Soil	Date Received:	12.17.19 12.45
Lab Sample Id:	646599-003	Date Collected:	12.11.19 00.00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.19.19 14.00	Basis:	Wet Weight
Seq Number:	3111382				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.21.19 16.56	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.21.19 16.56	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.21.19 16.56	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.21.19 16.56	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.21.19 16.56	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.21.19 16.56	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.21.19 16.56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	111	%	70-130	12.21.19 16.56	
4-Bromofluorobenzene	460-00-4	100	%	70-130	12.21.19 16.56	

Certificate of Analytical Results 646599

Etech Environmental & Safety Solution, Inc, Midland, TX

Hamon Fed Com #3H

Sample Id:	**SP4 @ 1'**	Matrix:	Soil	Date Received:	12.17.19 12.45
Lab Sample Id:	646599-004	Date Collected:	12.11.19 00.00	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.18.19 13.20	Basis:	Wet Weight
Seq Number:	3111044				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**279**	5.00	mg/kg	12.18.19 19.51		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.18.19 08.00	Basis:	Wet Weight
Seq Number:	3111076				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.18.19 21.43	U	1
Diesel Range Organics (DRO)	C10C28DRO	**259**	49.9	mg/kg	12.18.19 21.43		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.18.19 21.43	U	1
Total TPH	PHC635	**259**	49.9	mg/kg	12.18.19 21.43		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-135	12.18.19 21.43	
o-Terphenyl	84-15-1	109	%	70-135	12.18.19 21.43	

Certificate of Analytical Results 646599

Etech Environmental & Safety Solution, Inc, Midland, TX

Hamon Fed Com #3H

Sample Id:	**SP4 @ 1'**	Matrix:	Soil	Date Received:	12.17.19 12.45
Lab Sample Id:	646599-004	Date Collected:	12.11.19 00.00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.19.19 14.00	Basis:	Wet Weight
Seq Number:	3111382				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.21.19 17.16	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.21.19 17.16	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.21.19 17.16	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	12.21.19 17.16	U	1
o-Xylene	95-47-6	**0.00296**	0.00200	mg/kg	12.21.19 17.16		1
Total Xylenes	1330-20-7	**0.00296**	0.00200	mg/kg	12.21.19 17.16		1
Total BTEX		**0.00296**	0.00200	mg/kg	12.21.19 17.16		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	102	%	70-130	12.21.19 17.16	
1,4-Difluorobenzene	540-36-3	109	%	70-130	12.21.19 17.16	

Certificate of Analytical Results 646599

Etech Environmental & Safety Solution, Inc, Midland, TX

Hamon Fed Com #3H

Sample Id:	**SP5 @ 1'**	Matrix:	Soil	Date Received:	12.17.19 12.45
Lab Sample Id:	646599-005	Date Collected:	12.11.19 00.00	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.18.19 13.20	Basis:	Wet Weight
Seq Number:	3111044				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**461**	5.01	mg/kg	12.18.19 19.58		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.18.19 08.00	Basis:	Wet Weight
Seq Number:	3111076				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.18.19 22.03	U	1
Diesel Range Organics (DRO)	C10C28DRO	**422**	50.0	mg/kg	12.18.19 22.03		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**50.7**	50.0	mg/kg	12.18.19 22.03		1
Total TPH	PHC635	**473**	50.0	mg/kg	12.18.19 22.03		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	12.18.19 22.03	
o-Terphenyl	84-15-1	106	%	70-135	12.18.19 22.03	

Certificate of Analytical Results 646599

Etech Environmental & Safety Solution, Inc, Midland, TX

Hamon Fed Com #3H

Sample Id:	**SP5 @ 1'**	Matrix:	Soil	Date Received:	12.17.19 12.45
Lab Sample Id:	646599-005	Date Collected:	12.11.19 00.00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.19.19 14.00	Basis:	Wet Weight
Seq Number:	3111382				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.21.19 17.36	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.21.19 17.36	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.21.19 17.36	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.21.19 17.36	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.21.19 17.36	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	12.21.19 17.36	U	1
Total BTEX		<0.00199	0.00199	mg/kg	12.21.19 17.36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	101	%	70-130	12.21.19 17.36	
1,4-Difluorobenzene	540-36-3	111	%	70-130	12.21.19 17.36	

Certificate of Analytical Results 646599

Etech Environmental & Safety Solution, Inc, Midland, TX

Hamon Fed Com #3H

Sample Id:	**NH1 @ Surf**	Matrix:	Soil	Date Received:	12.17.19 12.45
Lab Sample Id:	646599-006	Date Collected:	12.11.19 00.00		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.18.19 13.20	Basis:	Wet Weight
Seq Number:	3111044				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**143**	4.97	mg/kg	12.18.19 20.04		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.18.19 08.00	Basis:	Wet Weight
Seq Number:	3111076				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	12.18.19 22.24	U	1
Diesel Range Organics (DRO)	C10C28DRO	**73.1**	49.8	mg/kg	12.18.19 22.24		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	12.18.19 22.24	U	1
Total TPH	PHC635	**73.1**	49.8	mg/kg	12.18.19 22.24		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	12.18.19 22.24	
o-Terphenyl	84-15-1	103	%	70-135	12.18.19 22.24	

Certificate of Analytical Results 646599

Etech Environmental & Safety Solution, Inc, Midland, TX

Hamon Fed Com #3H

Sample Id:	**NH1 @ Surf**	Matrix:	Soil	Date Received:	12.17.19 12.45
Lab Sample Id:	646599-006	Date Collected:	12.11.19 00.00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.19.19 14.00	Basis:	Wet Weight
Seq Number:	3111382				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	12.21.19 17.57	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	12.21.19 17.57	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	12.21.19 17.57	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	12.21.19 17.57	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	12.21.19 17.57	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	12.21.19 17.57	U	1
Total BTEX		<0.00202	0.00202	mg/kg	12.21.19 17.57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	100	%	70-130	12.21.19 17.57	
1,4-Difluorobenzene	540-36-3	113	%	70-130	12.21.19 17.57	

Certificate of Analytical Results 646599

Etech Environmental & Safety Solution, Inc, Midland, TX

Hamon Fed Com #3H

Sample Id:	**NH1 @ 1'**	Matrix:	Soil	Date Received:	12.17.19 12.45
Lab Sample Id:	646599-007	Date Collected:	12.11.19 00.00	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.18.19 13.20	Basis:	Wet Weight
Seq Number:	3111044				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**131**	5.00	mg/kg	12.18.19 20.11		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.18.19 08.00	Basis:	Wet Weight
Seq Number:	3111076				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.18.19 22.45	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	12.18.19 22.45	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.18.19 22.45	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	12.18.19 22.45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	12.18.19 22.45	
o-Terphenyl	84-15-1	100	%	70-135	12.18.19 22.45	

Certificate of Analytical Results 646599

Etech Environmental & Safety Solution, Inc, Midland, TX

Hamon Fed Com #3H

Sample Id:	**NH1 @ 1'**	Matrix:	Soil	Date Received:	12.17.19 12.45
Lab Sample Id:	646599-007	Date Collected:	12.11.19 00.00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.19.19 14.00	Basis:	Wet Weight
Seq Number:	3111382				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	12.21.19 18.17	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	12.21.19 18.17	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	12.21.19 18.17	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	12.21.19 18.17	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	12.21.19 18.17	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	12.21.19 18.17	U	1
Total BTEX		<0.00202	0.00202	mg/kg	12.21.19 18.17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	106	%	70-130	12.21.19 18.17	
1,4-Difluorobenzene	540-36-3	92	%	70-130	12.21.19 18.17	

Certificate of Analytical Results 646599

Etech Environmental & Safety Solution, Inc, Midland, TX

Hamon Fed Com #3H

Sample Id:	**NH2 @ Surf**	Matrix:	Soil	Date Received:	12.17.19 12.45
Lab Sample Id:	646599-008	Date Collected:	12.11.19 00.00		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.18.19 13.20	Basis:	Wet Weight
Seq Number:	3111044				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1460**	5.02	mg/kg	12.18.19 20.17		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.18.19 08.00	Basis:	Wet Weight
Seq Number:	3111076				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.18.19 23.06	U	1
Diesel Range Organics (DRO)	C10C28DRO	**151**	50.0	mg/kg	12.18.19 23.06		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.18.19 23.06	U	1
Total TPH	PHC635	**151**	50.0	mg/kg	12.18.19 23.06		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	12.18.19 23.06	
o-Terphenyl	84-15-1	105	%	70-135	12.18.19 23.06	

Certificate of Analytical Results 646599

Etech Environmental & Safety Solution, Inc, Midland, TX

Hamon Fed Com #3H

Sample Id:	**NH2 @ Surf**	Matrix:	Soil	Date Received:	12.17.19 12.45
Lab Sample Id:	646599-008	Date Collected:	12.11.19 00.00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.19.19 14.00	Basis:	Wet Weight
Seq Number:	3111382				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.21.19 18.38	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.21.19 18.38	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.21.19 18.38	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.21.19 18.38	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.21.19 18.38	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	12.21.19 18.38	U	1
Total BTEX		<0.00199	0.00199	mg/kg	12.21.19 18.38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	95	%	70-130	12.21.19 18.38	
1,4-Difluorobenzene	540-36-3	111	%	70-130	12.21.19 18.38	

Certificate of Analytical Results 646599

Etech Environmental & Safety Solution, Inc, Midland, TX

Hamon Fed Com #3H

Sample Id:	**NH2 @ 1'**	Matrix:	Soil	Date Received:	12.17.19 12.45
Lab Sample Id:	646599-009	Date Collected:	12.11.19 00.00	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.18.19 13.20	Basis:	Wet Weight
Seq Number:	3111044				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**244**	4.96	mg/kg	12.18.19 20.24		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.18.19 08.00	Basis:	Wet Weight
Seq Number:	3111076				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.18.19 23.27	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	12.18.19 23.27	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.18.19 23.27	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	12.18.19 23.27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-135	12.18.19 23.27	
o-Terphenyl	84-15-1	105	%	70-135	12.18.19 23.27	

Certificate of Analytical Results 646599

Etech Environmental & Safety Solution, Inc, Midland, TX

Hamon Fed Com #3H

Sample Id:	**NH2 @ 1'**	Matrix:	Soil	Date Received:	12.17.19 12.45
Lab Sample Id:	646599-009	Date Collected:	12.11.19 00.00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.19.19 14.00	Basis:	Wet Weight
Seq Number:	3111382				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	12.21.19 18.58	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	12.21.19 18.58	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	12.21.19 18.58	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	12.21.19 18.58	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	12.21.19 18.58	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	12.21.19 18.58	U	1
Total BTEX		<0.00201	0.00201	mg/kg	12.21.19 18.58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	110	%	70-130	12.21.19 18.58	
4-Bromofluorobenzene	460-00-4	96	%	70-130	12.21.19 18.58	

Certificate of Analytical Results 646599

Etech Environmental & Safety Solution, Inc, Midland, TX

Hamon Fed Com #3H

Sample Id:	**EH1 @ Surf**	Matrix:	Soil	Date Received:	12.17.19 12.45
Lab Sample Id:	646599-010	Date Collected:	12.11.19 00.00		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.18.19 13.20	Basis:	Wet Weight
Seq Number:	3111044				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3500**	25.0	mg/kg	12.18.19 20.31		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.18.19 08.00	Basis:	Wet Weight
Seq Number:	3111076				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.18.19 23.48	U	1
Diesel Range Organics (DRO)	C10C28DRO	**51.1**	50.0	mg/kg	12.18.19 23.48		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.18.19 23.48	U	1
Total TPH	PHC635	**51.1**	50.0	mg/kg	12.18.19 23.48		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-135	12.18.19 23.48	
o-Terphenyl	84-15-1	108	%	70-135	12.18.19 23.48	

Certificate of Analytical Results 646599

Etech Environmental & Safety Solution, Inc, Midland, TX

Hamon Fed Com #3H

Sample Id:	**EH1 @ Surf**	Matrix:	Soil	Date Received:	12.17.19 12.45
Lab Sample Id:	646599-010	Date Collected:	12.11.19 00.00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.19.19 14.00	Basis:	Wet Weight
Seq Number:	3111382				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.21.19 19.19	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.21.19 19.19	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.21.19 19.19	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	12.21.19 19.19	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.21.19 19.19	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.21.19 19.19	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.21.19 19.19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	102	%	70-130	12.21.19 19.19	
1,4-Difluorobenzene	540-36-3	111	%	70-130	12.21.19 19.19	

Certificate of Analytical Results 646599

Etech Environmental & Safety Solution, Inc, Midland, TX

Hamon Fed Com #3H

Sample Id:	**EH1 @ 1'**	Matrix:	Soil	Date Received:	12.17.19 12.45
Lab Sample Id:	646599-011	Date Collected:	12.11.19 00.00	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	12.18.19 16.30	Basis:	Wet Weight
Seq Number:	3111086				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**520**	4.96	mg/kg	12.18.19 18.01		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.18.19 08.00	Basis:	Wet Weight
Seq Number:	3111076				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	12.19.19 00.30	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	12.19.19 00.30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	12.19.19 00.30	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	12.19.19 00.30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-135	12.19.19 00.30	
o-Terphenyl	84-15-1	101	%	70-135	12.19.19 00.30	

Certificate of Analytical Results 646599

Etech Environmental & Safety Solution, Inc, Midland, TX

Hamon Fed Com #3H

Sample Id:	**EH1 @ 1'**	Matrix:	Soil	Date Received:	12.17.19 12.45
Lab Sample Id:	646599-011	Date Collected:	12.11.19 00.00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.19.19 14.00	Basis:	Wet Weight
Seq Number:	3111382				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.21.19 20.58	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.21.19 20.58	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.21.19 20.58	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.21.19 20.58	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.21.19 20.58	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	12.21.19 20.58	U	1
Total BTEX		<0.00199	0.00199	mg/kg	12.21.19 20.58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	107	%	70-130	12.21.19 20.58	
4-Bromofluorobenzene	460-00-4	88	%	70-130	12.21.19 20.58	

Certificate of Analytical Results 646599

Etech Environmental & Safety Solution, Inc, Midland, TX

Hamon Fed Com #3H

Sample Id:	**SH1 @ Surf**	Matrix:	Soil	Date Received:	12.17.19 12.45
Lab Sample Id:	646599-012	Date Collected:	12.11.19 00.00		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	12.18.19 16.30	Basis:	Wet Weight
Seq Number:	3111086				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**343**	4.99	mg/kg	12.18.19 18.17		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.18.19 08.00	Basis:	Wet Weight
Seq Number:	3111076				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.19.19 00.51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	12.19.19 00.51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.19.19 00.51	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	12.19.19 00.51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-135	12.19.19 00.51	
o-Terphenyl	84-15-1	108	%	70-135	12.19.19 00.51	

Certificate of Analytical Results 646599

Etech Environmental & Safety Solution, Inc, Midland, TX

Hamon Fed Com #3H

Sample Id:	**SH1 @ Surf**	Matrix:	Soil	Date Received:	12.17.19 12.45
Lab Sample Id:	646599-012	Date Collected:	12.11.19 00.00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.19.19 14.00	Basis:	Wet Weight
Seq Number:	3111382				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.21.19 21.18	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.21.19 21.18	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.21.19 21.18	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	12.21.19 21.18	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.21.19 21.18	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.21.19 21.18	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.21.19 21.18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	92	%	70-130	12.21.19 21.18	
1,4-Difluorobenzene	540-36-3	110	%	70-130	12.21.19 21.18	

Certificate of Analytical Results 646599

Etech Environmental & Safety Solution, Inc, Midland, TX

Hamon Fed Com #3H

Sample Id:	**SH1 @ 1'**	Matrix:	Soil	Date Received:	12.17.19 12.45
Lab Sample Id:	646599-013	Date Collected:	12.11.19 00.00	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	12.18.19 16.30	Basis:	Wet Weight
Seq Number:	3111086				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**51.0**	4.98	mg/kg	12.18.19 18.22		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.18.19 08.00	Basis:	Wet Weight
Seq Number:	3111076				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.19.19 01.12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.19.19 01.12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.19.19 01.12	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	12.19.19 01.12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	12.19.19 01.12	
o-Terphenyl	84-15-1	101	%	70-135	12.19.19 01.12	

Certificate of Analytical Results 646599

Etech Environmental & Safety Solution, Inc, Midland, TX

Hamon Fed Com #3H

Sample Id:	**SH1 @ 1'**	Matrix:	Soil	Date Received:	12.17.19 12.45
Lab Sample Id:	646599-013	Date Collected:	12.11.19 00.00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.19.19 14.00	Basis:	Wet Weight
Seq Number:	3111382				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	12.21.19 21.39	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	12.21.19 21.39	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	12.21.19 21.39	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	12.21.19 21.39	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	12.21.19 21.39	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	12.21.19 21.39	U	1
Total BTEX		<0.00202	0.00202	mg/kg	12.21.19 21.39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	110	%	70-130	12.21.19 21.39	
4-Bromofluorobenzene	460-00-4	101	%	70-130	12.21.19 21.39	

Certificate of Analytical Results 646599

Etech Environmental & Safety Solution, Inc, Midland, TX

Hamon Fed Com #3H

Sample Id:	**SH2 @ Surf**	Matrix:	Soil	Date Received:	12.17.19 12.45
Lab Sample Id:	646599-014	Date Collected:	12.11.19 00.00		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	12.18.19 16.30	Basis:	Wet Weight
Seq Number:	3111086				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2160**	25.2	mg/kg	12.18.19 18.27		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.18.19 08.00	Basis:	Wet Weight
Seq Number:	3111076				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.19.19 01.33	U	1
Diesel Range Organics (DRO)	C10C28DRO	**521**	49.9	mg/kg	12.19.19 01.33		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**100**	49.9	mg/kg	12.19.19 01.33		1
Total TPH	PHC635	**621**	49.9	mg/kg	12.19.19 01.33		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	12.19.19 01.33	
o-Terphenyl	84-15-1	111	%	70-135	12.19.19 01.33	

Certificate of Analytical Results 646599

Etech Environmental & Safety Solution, Inc, Midland, TX

Hamon Fed Com #3H

Sample Id:	**SH2 @ Surf**	Matrix:	Soil	Date Received:	12.17.19 12.45
Lab Sample Id:	646599-014	Date Collected:	12.11.19 00.00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.19.19 14.00	Basis:	Wet Weight
Seq Number:	3111382				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.21.19 21.59	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.21.19 21.59	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.21.19 21.59	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	12.21.19 21.59	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.21.19 21.59	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.21.19 21.59	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.21.19 21.59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	113	%	70-130	12.21.19 21.59	
4-Bromofluorobenzene	460-00-4	96	%	70-130	12.21.19 21.59	

Certificate of Analytical Results 646599

Etech Environmental & Safety Solution, Inc, Midland, TX

Hamon Fed Com #3H

Sample Id:	**SH2 @ 1'**	Matrix:	Soil	Date Received:	12.17.19 12.45
Lab Sample Id:	646599-015	Date Collected:	12.11.19 00.00	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	12.18.19 16.30	Basis:	Wet Weight
Seq Number:	3111086				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2840**	25.2	mg/kg	12.19.19 12.09		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.18.19 08.00	Basis:	Wet Weight
Seq Number:	3111076				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.19.19 01.54	U	1
Diesel Range Organics (DRO)	C10C28DRO	**99.3**	50.0	mg/kg	12.19.19 01.54		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.19.19 01.54	U	1
Total TPH	PHC635	**99.3**	50.0	mg/kg	12.19.19 01.54		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	12.19.19 01.54	
o-Terphenyl	84-15-1	102	%	70-135	12.19.19 01.54	

Certificate of Analytical Results 646599

Etech Environmental & Safety Solution, Inc, Midland, TX

Hamon Fed Com #3H

Sample Id:	**SH2 @ 1'**	Matrix:	Soil	Date Received:	12.17.19 12.45
Lab Sample Id:	646599-015	Date Collected:	12.11.19 00.00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.19.19 14.00	Basis:	Wet Weight
Seq Number:	3111382				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	12.21.19 22.20	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	12.21.19 22.20	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	12.21.19 22.20	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	12.21.19 22.20	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	12.21.19 22.20	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	12.21.19 22.20	U	1
Total BTEX		<0.00198	0.00198	mg/kg	12.21.19 22.20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	95	%	70-130	12.21.19 22.20	
1,4-Difluorobenzene	540-36-3	110	%	70-130	12.21.19 22.20	

Certificate of Analytical Results 646599

Etech Environmental & Safety Solution, Inc, Midland, TX

Hamon Fed Com #3H

Sample Id:	**WH1 @ Surf**	Matrix:	Soil	Date Received:	12.17.19 12.45
Lab Sample Id:	646599-016	Date Collected:	12.11.19 00.00		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	12.18.19 16.30	Basis:	Wet Weight
Seq Number:	3111086				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**23.8**	4.96	mg/kg	12.18.19 19.35		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.18.19 08.00	Basis:	Wet Weight
Seq Number:	3111076				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.19.19 02.15	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	12.19.19 02.15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.19.19 02.15	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	12.19.19 02.15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	12.19.19 02.15	
o-Terphenyl	84-15-1	106	%	70-135	12.19.19 02.15	

Certificate of Analytical Results 646599

Etech Environmental & Safety Solution, Inc, Midland, TX

Hamon Fed Com #3H

Sample Id:	**WH1 @ Surf**	Matrix:	Soil	Date Received:	12.17.19 12.45
Lab Sample Id:	646599-016	Date Collected:	12.11.19 00.00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.19.19 14.00	Basis:	Wet Weight
Seq Number:	3111382				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.21.19 22.40	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.21.19 22.40	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.21.19 22.40	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.21.19 22.40	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.21.19 22.40	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	12.21.19 22.40	U	1
Total BTEX		<0.00199	0.00199	mg/kg	12.21.19 22.40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	110	%	70-130	12.21.19 22.40	
4-Bromofluorobenzene	460-00-4	101	%	70-130	12.21.19 22.40	

Certificate of Analytical Results 646599

Etech Environmental & Safety Solution, Inc, Midland, TX

Hamon Fed Com #3H

Sample Id:	**WH1 @ 1'**	Matrix:	Soil	Date Received:	12.17.19 12.45
Lab Sample Id:	646599-017	Date Collected:	12.11.19 00.00	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	12.18.19 16.30	Basis:	Wet Weight
Seq Number:	3111086				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**12.3**	5.03	mg/kg	12.18.19 19.40		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.18.19 08.00	Basis:	Wet Weight
Seq Number:	3111076				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.19.19 02.36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.19.19 02.36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.19.19 02.36	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	12.19.19 02.36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	12.19.19 02.36	
o-Terphenyl	84-15-1	105	%	70-135	12.19.19 02.36	

Certificate of Analytical Results 646599

Etech Environmental & Safety Solution, Inc, Midland, TX

Hamon Fed Com #3H

Sample Id:	**WH1 @ 1'**	Matrix:	Soil	Date Received:	12.17.19 12.45
Lab Sample Id:	646599-017	Date Collected:	12.11.19 00.00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.19.19 14.00	Basis:	Wet Weight
Seq Number:	3111382				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.21.19 23.00	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.21.19 23.00	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.21.19 23.00	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.21.19 23.00	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.21.19 23.00	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.21.19 23.00	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.21.19 23.00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	113	%	70-130	12.21.19 23.00	
4-Bromofluorobenzene	460-00-4	100	%	70-130	12.21.19 23.00	

Certificate of Analytical Results 646599

Etech Environmental & Safety Solution, Inc, Midland, TX

Hamon Fed Com #3H

Sample Id:	**WH2 @ Surf**	Matrix:	Soil	Date Received:	12.17.19 12.45
Lab Sample Id:	646599-018	Date Collected:	12.11.19 00.00		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	12.18.19 16.30	Basis:	Wet Weight
Seq Number:	3111086				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**592**	5.00	mg/kg	12.18.19 19.45		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.18.19 08.00	Basis:	Wet Weight
Seq Number:	3111076				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.19.19 02.58	U	1
Diesel Range Organics (DRO)	C10C28DRO	**1000**	49.9	mg/kg	12.19.19 02.58		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**196**	49.9	mg/kg	12.19.19 02.58		1
Total TPH	PHC635	**1200**	49.9	mg/kg	12.19.19 02.58		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	12.19.19 02.58	
o-Terphenyl	84-15-1	107	%	70-135	12.19.19 02.58	

Certificate of Analytical Results 646599

Etech Environmental & Safety Solution, Inc, Midland, TX

Hamon Fed Com #3H

Sample Id:	**WH2 @ Surf**	Matrix:	Soil	Date Received:	12.17.19 12.45
Lab Sample Id:	646599-018	Date Collected:	12.11.19 00.00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.19.19 14.00	Basis:	Wet Weight
Seq Number:	3111382				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	12.21.19 23.21	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	12.21.19 23.21	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	12.21.19 23.21	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	12.21.19 23.21	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	12.21.19 23.21	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	12.21.19 23.21	U	1
Total BTEX		<0.00198	0.00198	mg/kg	12.21.19 23.21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	110	%	70-130	12.21.19 23.21	
4-Bromofluorobenzene	460-00-4	100	%	70-130	12.21.19 23.21	

Certificate of Analytical Results 646599

Etech Environmental & Safety Solution, Inc, Midland, TX

Hamon Fed Com #3H

Sample Id:	**WH2 @ 1'**	Matrix:	Soil	Date Received:	12.17.19 12.45
Lab Sample Id:	646599-019	Date Collected:	12.11.19 00.00	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	12.18.19 16.30	Basis:	Wet Weight
Seq Number:	3111086				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**449**	4.98	mg/kg	12.18.19 19.50		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.18.19 08.00	Basis:	Wet Weight
Seq Number:	3111076				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.19.19 03.19	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.19.19 03.19	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.19.19 03.19	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	12.19.19 03.19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	117	%	70-135	12.19.19 03.19	
o-Terphenyl	84-15-1	118	%	70-135	12.19.19 03.19	

Certificate of Analytical Results 646599

Etech Environmental & Safety Solution, Inc, Midland, TX

Hamon Fed Com #3H

Sample Id:	**WH2 @ 1'**	Matrix:	Soil	Date Received:	12.17.19 12.45
Lab Sample Id:	646599-019	Date Collected:	12.11.19 00.00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.19.19 14.00	Basis:	Wet Weight
Seq Number:	3111382				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	12.21.19 23.41	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	12.21.19 23.41	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	12.21.19 23.41	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	12.21.19 23.41	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	12.21.19 23.41	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	12.21.19 23.41	U	1
Total BTEX		<0.00201	0.00201	mg/kg	12.21.19 23.41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	107	%	70-130	12.21.19 23.41	
4-Bromofluorobenzene	460-00-4	92	%	70-130	12.21.19 23.41	

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.

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 646599

Etech Environmental & Safety Solution, Inc

Hamon Fed Com #3H

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3111044 — Matrix: Solid — Date Prep: 12.18.19
MB Sample Id: 7692766-1-BLK — LCS Sample Id: 7692766-1-BKS — LCSD Sample Id: 7692766-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.858	250	251	100	254	102	90-110	1	20	mg/kg	12.18.19 17:18	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3111086 — Matrix: Solid — Date Prep: 12.18.19
MB Sample Id: 7692783-1-BLK — LCS Sample Id: 7692783-1-BKS — LCSD Sample Id: 7692783-1-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	261	104	252	101	90-110	4	20	mg/kg	12.18.19 17:51	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3111044 — Matrix: Soil — Date Prep: 12.18.19
Parent Sample Id: 646598-001 — MS Sample Id: 646598-001 S — MSD Sample Id: 646598-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.03	252	262	104	261	104	90-110	0	20	mg/kg	12.18.19 17:38	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3111044 — Matrix: Soil — Date Prep: 12.18.19
Parent Sample Id: 646599-001 — MS Sample Id: 646599-001 S — MSD Sample Id: 646599-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	434	250	661	91	645	84	90-110	2	20	mg/kg	12.19.19 08:16	X

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3111086 — Matrix: Soil — Date Prep: 12.18.19
Parent Sample Id: 646599-011 — MS Sample Id: 646599-011 S — MSD Sample Id: 646599-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	520	248	724	82	727	83	90-110	0	20	mg/kg	12.18.19 18:07	X

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

QC Summary 646599

Etech Environmental & Safety Solution, Inc

Hamon Fed Com #3H

Analytical Method: Chloride by EPA 300 Prep Method: E300P
Seq Number: 3111086 Matrix: Soil Date Prep: 12.18.19
Parent Sample Id: 646620-002 MS Sample Id: 646620-002 S MSD Sample Id: 646620-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	44.1	251	280	94	274	92	90-110	2	20	mg/kg	12.18.19 20:06	

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
Seq Number: 3111076 Matrix: Solid Date Prep: 12.18.19
MB Sample Id: 7692691-1-BLK LCS Sample Id: 7692691-1-BKS LCSD Sample Id: 7692691-1-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)	<15.0	1000	998	100	996	100	70-135	0	20	mg/kg	12.18.19 19:15	
Diesel Range Organics (DRO)	<15.0	1000	1050	105	1040	104	70-135	1	20	mg/kg	12.18.19 19:15	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	104		106		106		70-135	%	12.18.19 19:15
o-Terphenyl	106		104		103		70-135	%	12.18.19 19:15

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
Seq Number: 3111076 Matrix: Solid Date Prep: 12.18.19
MB Sample Id: 7692691-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	12.18.19 18:54	

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
Seq Number: 3111076 Matrix: Soil Date Prep: 12.18.19
Parent Sample Id: 646599-001 MS Sample Id: 646599-001 S MSD Sample Id: 646599-001 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)	41.2	998	1070	103	1030	99	70-135	4	20	mg/kg	12.18.19 20:18	
Diesel Range Organics (DRO)	274	998	1230	96	1210	94	70-135	2	20	mg/kg	12.18.19 20:18	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	112		109		70-135	%	12.18.19 20:18
o-Terphenyl	111		116		70-135	%	12.18.19 20:18

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 646599

Etech Environmental & Safety Solution, Inc

Hamon Fed Com #3H

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3111382 | Matrix: Solid | Date Prep: 12.19.19
MB Sample Id: 7692867-1-BLK | LCS Sample Id: 7692867-1-BKS | LCSD Sample Id: 7692867-1-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	0.107	107	0.0987	99	70-130	8	35	mg/kg	12.21.19 14:04	
Toluene	<0.00200	0.100	0.101	101	0.0949	95	70-130	6	35	mg/kg	12.21.19 14:04	
Ethylbenzene	<0.00200	0.100	0.105	105	0.0986	99	70-130	6	35	mg/kg	12.21.19 14:04	
m,p-Xylenes	<0.00400	0.200	0.214	107	0.202	101	70-130	6	35	mg/kg	12.21.19 14:04	
o-Xylene	<0.00200	0.100	0.106	106	0.101	101	70-130	5	35	mg/kg	12.21.19 14:04	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	109		110		111		70-130	%	12.21.19 14:04
4-Bromofluorobenzene	100		99		106		70-130	%	12.21.19 14:04

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3111382 | Matrix: Soil | Date Prep: 12.19.19
Parent Sample Id: 646599-001 | MS Sample Id: 646599-001 S | MSD Sample Id: 646599-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	0.00157	0.101	0.0941	92	0.0964	96	70-130	2	35	mg/kg	12.21.19 14:45	
Toluene	0.00305	0.101	0.0819	78	0.0828	80	70-130	1	35	mg/kg	12.21.19 14:45	
Ethylbenzene	0.00102	0.101	0.0828	81	0.0787	78	70-130	5	35	mg/kg	12.21.19 14:45	
m,p-Xylenes	0.00407	0.202	0.144	69	0.122	60	70-130	17	35	mg/kg	12.21.19 14:45	X
o-Xylene	0.00838	0.101	0.0872	78	0.0852	77	70-130	2	35	mg/kg	12.21.19 14:45	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	113		114		70-130	%	12.21.19 14:45
4-Bromofluorobenzene	109		109		70-130	%	12.21.19 14:45

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

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

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

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800

Work Order No: 1044599

www.xenco.com Page 1 of 2

Project Manager:	Joel Lowry	Bill to: (if different)	Legacy C/O Clyde Willhoit
Company Name:	Etech Environmental	Company Name:	Legacy Reserves
Address:	3100 Plains HWY	Address:	303 West Wall, Ste 1400
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	Midland, TX 79701
Phone:	432-466-4450	Email:	Email Invoice to cwilhoit@legacyreserves.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/USTF ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Hamon Fed Com #3H	Turn Around	
Project Number:	11552	Routine: ☐	
Project Location	Rural Lea	Rush: ☐	
Sampler's Name:	Miguel Ramirez	Due Date:	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	0.5	Thermometer ID:	2	
Received Intact:	(Yes) No			
Cooler Custody Seals:	Yes No N/A	Correction Factor:	0	
Sample Custody Seals:	Yes No N/A	Total Containers:		

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	BTEX	TPH 8015 M Ext	Chloride	Sample Comments
SP1 @ 1'	S	12/11/2019		1'	1	x	x	x	
SP2 @ 1'	S	12/11/2019		1'	1	x	x	x	
SP3 @ 1'	S	12/11/2019		1'	1	x	x	x	
SP4 @ 1'	S	12/11/2019		1'	1	x	x	x	
SP5 @ 1'	S	12/11/2019		1'	1	x	x	x	
NH1 @ Surf.	S	12/11/2019		0	1	x	x	x	
NH1 @ 1'	S	12/11/2019		1'	1	x	x	x	
NH2 @ Surf.	S	12/11/2019		0	1	x	x	x	
NH2 @ 1'	S	12/11/2019		1'	1	x	x	x	
EH1 @ Surf.	S	12/11/2019		0	1	x	x	x	

Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

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 SiO2 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 **1631 / 245.1 / 7470 / 7471** : Hg

0.5

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Ezga Carrillo	12/16/19 2:54	2 Ezga Carrillo		12/17
3			4		1245
5			6		

Revised Date101419 Rev. 2019.1

Chain of Custody

Work Order No: 1046899

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800
www.xenco.com

Project Manager:	Joel Lowry	Bill to: (if different)	Legacy C/O Clyde Willhoit
Company Name:	Etech Environmental	Company Name:	Legacy Reserves
Address:	3100 Plains HWY	Address:	303 West Wall, Ste 1400
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	Midland, TX 79701
Phone:	432-466-4450	Email:	Email Invoice to

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level I ☐ Level II ☐ PST/US ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Hamon Fed Com #3H	Turn Around	
Project Number:	11552	Routine: ☐	
Project Location	Rural Lea	Rush: ☐	
Sampler's Name:	Miguel Ramirez	Due Date:	
PO #:			

SAMPLE RECEIPT	Temp Blank: Yes (No)	Wet Ice: (Yes) No	
Temperature (°C):	0.5	Thermometer ID:	DS
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	
Sample Custody Seals:	Yes No (N/A)	Total Containers:	

Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	BTEX	TPH 8015 M Ext	Chloride	Sample Comments
EH1 @ 1'	S	12/11/2019		1	1	x	x	x	
SH1 @ Surf.	S	12/11/2019		0	1	x	x	x	
SH1 @ 1'	S	12/11/2019		1	1	x	x	x	
SH2 @ Surf.	S	12/11/2019		0	1	x	x	x	
SH2 @ 1'	S	12/11/2019		1	1	x	x	x	
WH1 @ Surf.	S	12/11/2019		0	1	x	x	x	
WH1 @ 1'	S	12/11/2019		1	1	x	x	x	
WH2 @ Surf.	S	12/11/2019		0	1	x	x	x	
WH2 @ 1'	S	12/11/2019		1	1	x	x	x	

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 SiO2 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 **1631 / 245.1 / 7470 / 7471** : Hg

0.5

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Espa Carrillo	12/16/19 7:55	2 Espa Carrillo		12/17
3			4		12:45
5			6		

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 12/17/2019 12:45:00 PM

Work Order #: 646599

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

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	.5
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#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)?	**N/A**
#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: Brianna Teel Date: 12/17/2019
Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 12/17/2019
Jessica Kramer

Appendix D
Photographic Log

Photographic Log

Photo Number: 1 **Photo Direction:** Northeast **Photo Description:** View of surface staining from the initial release.	

Photo Number: 2 **Photo Direction:** North **Photo Description:** View of surface staining from the initial release.