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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	NRM2030434227
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Endeavor Energy Resources, LP	OGRID 190595
Contact Name Teffanie Fawks	Contact Telephone 432-262-4203
Contact email teffanies@eeronline.com	Incident # *(assigned by OCD)*
Contact mailing address 110 N. Marienfeld, Suite 200, Midland, TX 79706	

Location of Release Source

Latitude 32.16415 Longitude -104.04453

(NAD 83 in decimal degrees to 5 decimal places)

Site Name Hopi Federal #002	Site Type Pumping Unit
Date Release Discovered 4/5/20	API# *(if applicable) 30-015-30819*

Unit Letter	Section	Township	Range	County
A	01	25S	28E	Eddy

NOT ACCEPTED

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

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

☒ Crude Oil	Volume Released (bbls) 0.5	Volume Recovered (bbls) 0
☒ Produced Water	Volume Released (bbls) 4.5	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release Pin hole leak developed in 2" line coming off of well head		

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State of New Mexico
Oil Conservation Division

Incident ID	NRM2030434227
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

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

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: Teffanie Fawks
Title: Environmental Technician
Signature: TFawks
Date: 10/20/20
email: teffanies@eeronline.com
Telephone: 432-262-4203

OCD Only

Received by: Ramona Marcus
Date: 10/30/2020
NOT ACCEPTED

Hopi Federal #002

Incident ID	NRM2030434227
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?	~40 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.

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State of New Mexico
Oil Conservation Division

Incident ID	NRM2030434227
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: Teffanie Fawks Title: Environmental Technician

Signature: Fawks Date: 10/20/20

email: teffanies@eeronline.com Telephone: 432-262-4203

OCD Only

Received by: Ramona Marcus Date: 10/30/2020

Conoco #1 TB

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State of New Mexico
Oil Conservation Division

Incident ID	NRM2030434227
District RP	
Facility ID	
Application ID	

Closure

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

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

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Teffanie Fawks Title: Environmental Technician

Signature: Fawks Date: 10/20/20

email: teffanies@eeronline.com Telephone: 432-262-4203

OCD Only

Received by: Ramona Marcus Date: 10/30/2020

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Hopi Federal #002

NRM2030434227

Remediation Summary and Soil Closure Request

Endeavor Energy Resources, LP
Hopi Federal #2 (4-5-2020)
Eddy County, New Mexico
Unit Letter A, Section 1, Township 25 South, Range 28 East
Latitude 32.16416 North, Longitude 104.04459 West
NMOCD Reference No. pending

Prepared By:

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

Matthew Grieco

Joel W. Lowry

Midland • San Antonio • Lubbock • Lovington • Lafayette

TABLE OF CONTENTS

1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Endeavor Energy Resources, LP, has prepared this Remediation Summary and Soil Closure Request for the Release Site known as the Hopi Federal #2 (4-5-2020). Details of the release are summarized below:

Location of Release Source

Latitude: 32.16416 Longitude: -104.04459

Provided GPS are in WGS84 format.

Site Name:	Hopi Federal #2 (4-5-2020)	Site Type:	Pumping Unit
Date Release Discovered:	4/5/2020	API # (if applicable):	30-015-30819

Unit Letter	Section	Township	Range	County
A	1	25S	28E	Eddy

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

Nature and Volume of Release

[X] Crude Oil	Volume Released (bbls) 0.5	Volume Recovered (bbls) 0
[X] Produced Water	Volume Released (bbls) 4.5	Volume Recovered (bbls) 0
	Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L?	[X] 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:
Pin hole leak developed in 2” line coming off of well head.

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?	~40 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**
~40 ft	Chloride	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	100 mg/kg
	DRO + GRO	EPA SW-846 Method 8015M	N/A 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 REMEDIATION ACTIVITIES SUMMARY

On April 7, 2020, Etech conducted an initial site assessment. During the initial site assessment, a series of hand-augered soil bores and/or test trenches were advanced within the release margins to determine the vertical extent of soil impacts. In addition, hand-augered soil bores and/or test trenches were advanced at the inferred edges of the affected area 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.

Based on field observations and field test data, twenty-four (24) delineation soil samples (NH1 @ Surface, NH1 @ 1', NH2 @ Surface, NH2 @ 1', EH1 @ Surface, EH1 @ 1', EH2 @ Surface, EH2 @ 1', SH1 @ Surface, SH1 @ 1', SH2 @ Surface, SH2 @ 1', Sp1 @ Surface, SP1 @ 3'-R, SP2 @ Surface, SP2 @ 4'-R, SP3 @ Surface, SP3 @ 4'-R, SP4 @ Surface, SP4 @ 3'-R, WH1 @ Surface, WH1 @ 1', WH2 @ Surface, and WH2 @ 1') were collected and submitted to the laboratory for analysis of BTEX, TPH and chloride. Based on laboratory analytical results, soil was not affected above the NMOCD Closure Criteria beyond 4 Ft. BGS with the exception of the areas characterized by soil samples SP1 @ 3'-R (3,440 mg/kg Cl-), SP3 @ 4'-R (2,210 mg/kg Cl-), and SP4 @ 3'-R (6,250 mg/kg Cl-), which encountered auger refusal before vertical delineation could be achieved. The horizontal extent of affected soil impacted above the NMOCD Closure Criteria was adequately defined.

On July 16, 2020, Etech continued the initial site assessment. Based on field observations and field test data, three (3) delineation soil samples (SP1 @ 5', SP3 @ 3', and SP4 @ 5') were submitted to the laboratory for analysis of Chloride. Based on laboratory analytical results, soil was not affected above the NMOCD Closure Criteria beyond 5 Ft. BGS with the exception of the area characterized by soil sample SP1 @ 5' (1,140 mg/kg Cl-).

On July 22, 2020, Etech continued the initial site assessment. Based on field observations and field test data, one (1) delineation soil sample (SP1 @ 7') was collected submitted to the laboratory for analysis of chloride. Based on laboratory analytical results, soil was not affected above the NMOCD Closure Criteria beyond 7 Ft. BGS in the area characterized by soil

On August 4, 2020, remediation activities commenced at the Site. In accordance with the NMOCD, impacted soil affected above the NMOCD Closure Criteria was excavated and stockpiled on-site, pending final disposition at an NMOCD-approved surface waste facility for disposal. The floor and sidewalls of the excavation were advanced until field observations and test results suggested BTEX, TPH and chloride concentrations were below the applicable NMOCD Closure Criteria..

On August 4, 2020, Etech collected ten (10) excavation confirmation soil samples (NWW, NWHFSB @ 4', WWWPJ, WW, NWH @ 3', NWA, WFS, SWWPJ, SP1FS @ 8', and NWB) from the floor and sidewalls of the excavated area. The collected soil samples were submitted to a certified commercial laboratory for analysis of BTEX, TPH and chloride. Laboratory analytical results indicated BTEX, TPH and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples with the exceptions of soil samples NWW (4,050 mg/kg Cl-), WWWPJ (731 mg/kg Cl-), and NWH @ 3' (922 mg/kg Cl-).

On August 5, 2020, Etech collected five (5) excavation confirmation soil samples (NW1, SW1, SW2, SP4FS @ 5', and SP4FSA @ 5') from the floor and sidewalls of the excavated area. The collected soil samples were submitted to a certified commercial laboratory for analysis of BTEX, TPH and chloride. Laboratory analytical results indicated BTEX, TPH and chloride concentrations below the applicable NMOCD Closure Criteria in each of the submitted soil samples with the exception of soil sample SP4FS @ 5', which had a chloride concentration of 623 mg/kg.

On August 6, 2020, Etech collected three (3) excavation confirmation soil samples (SW3, BWHS @ 5', and SP4FSB @ 7') from the floor and sidewalls of the excavated area. The collected soil samples were submitted to a certified commercial laboratory for analysis of BTEX, TPH and chloride concentrations which were determined to be below the applicable NMOCD Closure Criteria in each of the submitted soil samples.

On August 10, 2020, excavation activities resumed at the Site. Impacted soil in the areas characterized by sample points NWW, WWWPJ, and NWH @ 3' was excavated and transported to an NMOCD-approved surface waste facility for disposal. Upon excavating impacted soil remaining in-situ, Etech collected, twelve (12) additional excavation confirmation soil samples (SP #5 @ 2', SP #6 @ 4', SP #7 @ 4', NW #1, NW #2, EW #1, SW#1, WW #1, NWHB @ 4', BWHSB @1', WWPJB, and NWWB) and submitted them to the laboratory for analysis of BTEX, TPH and chloride concentrations which were determined to be below the applicable NMOCD Closure Criteria in each of the submitted soil samples.

On August 12, 2020, excavation activities resumed at the Site. Impacted soil in the areas characterized by sample point SP4FS @ 5' was excavated and transported to an NMOCD-approved surface waste facility for disposal. Upon excavating impacted soil remaining in-situ, Etech collected, one (1) additional excavation confirmation soil sample (SP4F5 @ 6') and submitted it to the laboratory for analysis of BTEX, TPH and chloride concentrations which were determined to be below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in the submitted soil sample.

A "Site & Sample Location Map" is provided as Figure 3. A "Soil Chemistry Table" is provided as Table 1. Laboratory Analytical Reports are provided as Appendix C. Field data and soil profile logs, if applicable, are provided as Appendix B.

The final dimensions of the excavated area were 200 Ft. in length, 20 to 80 Ft. in width and ranged from 1 to 8 Ft. in depth. During the course of remediation activities approximately 860 cubic yards of impacted soil were transported to an NMOCD-approved surface waste facility for disposal.

5.0 RESTORATION, RECLAMATION AND RE-VEGETATION PLAN

Upon receiving laboratory analytical results from confirmation soil samples, excavated areas were backfilled with locally sourced, non-impacted "like" material placed at or near original relative positions. The affected area was contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable. Affected areas not on production pads and/or lease roads will be reseeded with an agency and/or landowner-approved seed mixture free of noxious weeds during the first favorable growing season following closure of the site.

6.0 SOIL CLOSURE REQUEST

Remediation activities were conducted in accordance with applicable NMOCD Regulations. Impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard was excavated and transported to an NMOCD-approved disposal facility. Laboratory analytical results from confirmation soil samples indicate concentrations of BTEX, TPH and chloride are below the NMOCD Closure Criteria and/or NMOCD Reclamation Standard.

Based on laboratory analytical results and field activities conducted to date, Etech recommends Endeavor Energy Resources, LP provide copies of this Remediation Summary and Soil Closure Request to the appropriate agencies and request closure be granted to the Hopi Federal #2 (4-5-2020) Site.

7.0 LIMITATIONS

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

This report has been prepared for the benefit of Endeavor Energy Resources, LP. Use of the information contained in this report is prohibited without the consent of Etech and/or Endeavor Energy Resources, LP.

8.0 DISTRIBUTION

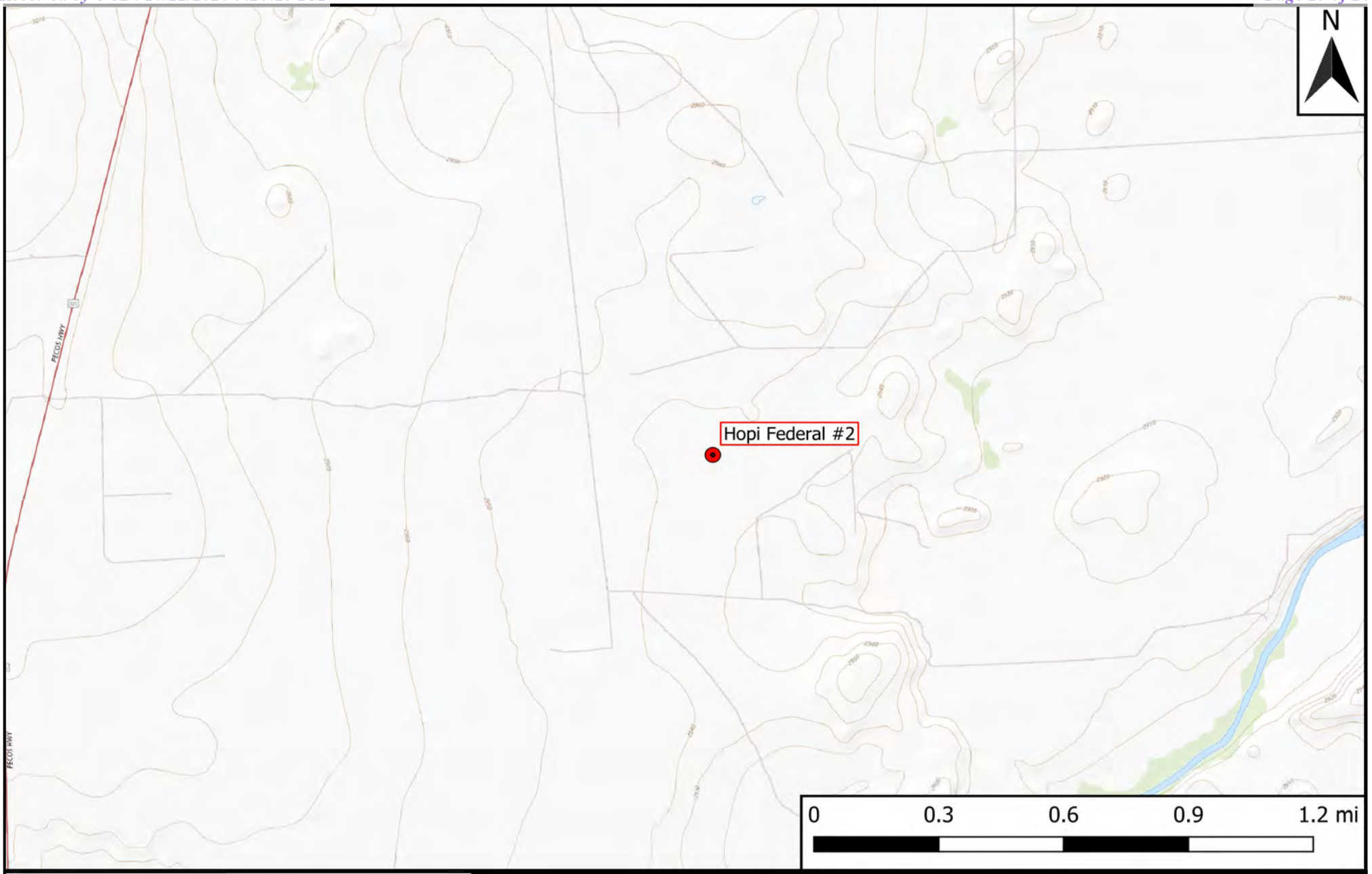
Endeavor Energy Resources, LP
110 N. Marienfeld St
Suite 200
Midland, TX 79701

New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division, District 2
811 S. First Street
Artesia, NM 88210

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

(Electronic Submission)

Figure 1
Topographic Map



Legend

Site Location

Figure 1

Topographic Map

Endeavor Energy Resources, LP

Hopi Federal #2 (4-5-2020)

GPS: 32.16416, -104.04459

Eddy County

eTECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 4/13/20

Figure 2
Aerial Proximity Map

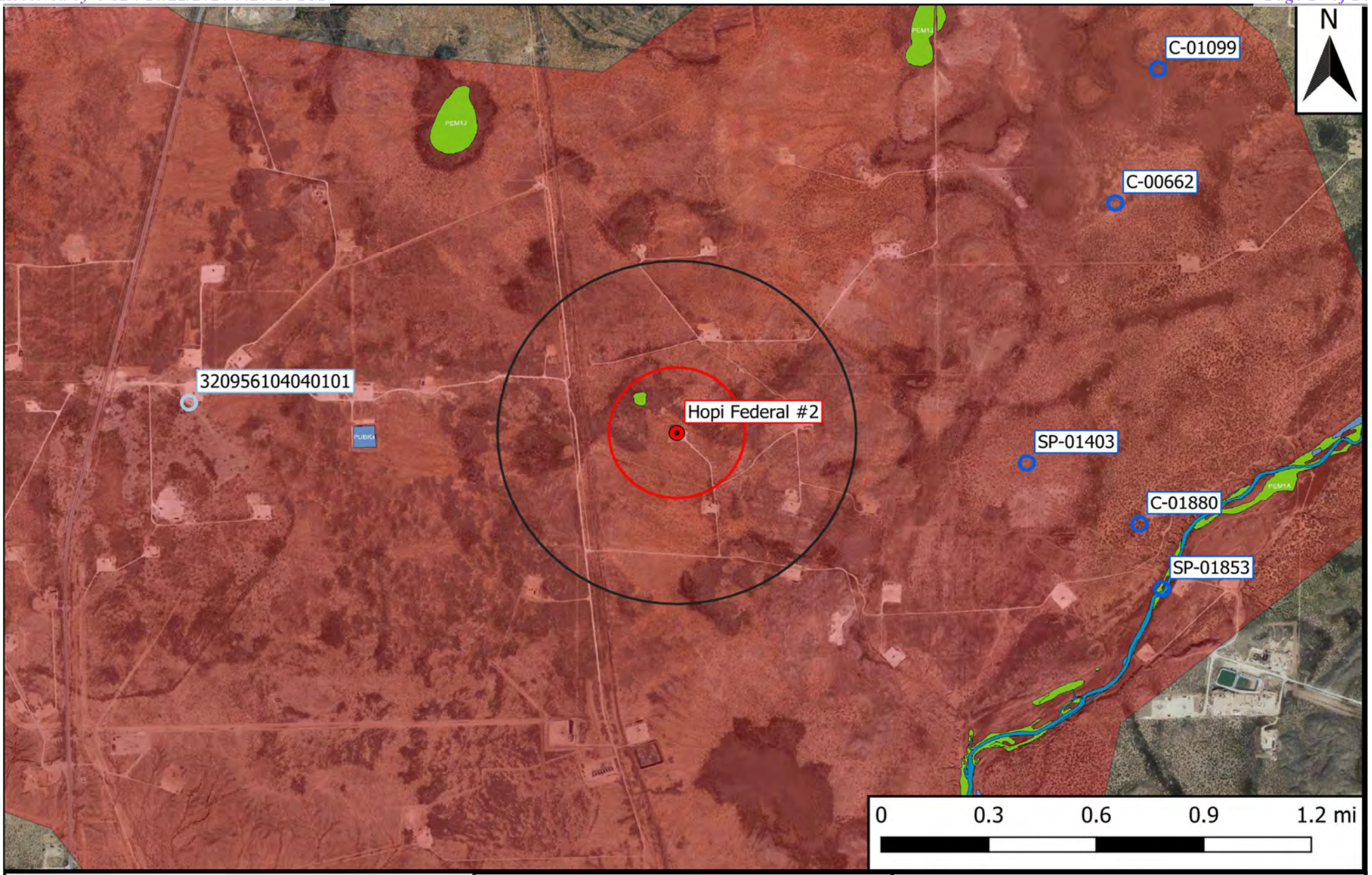
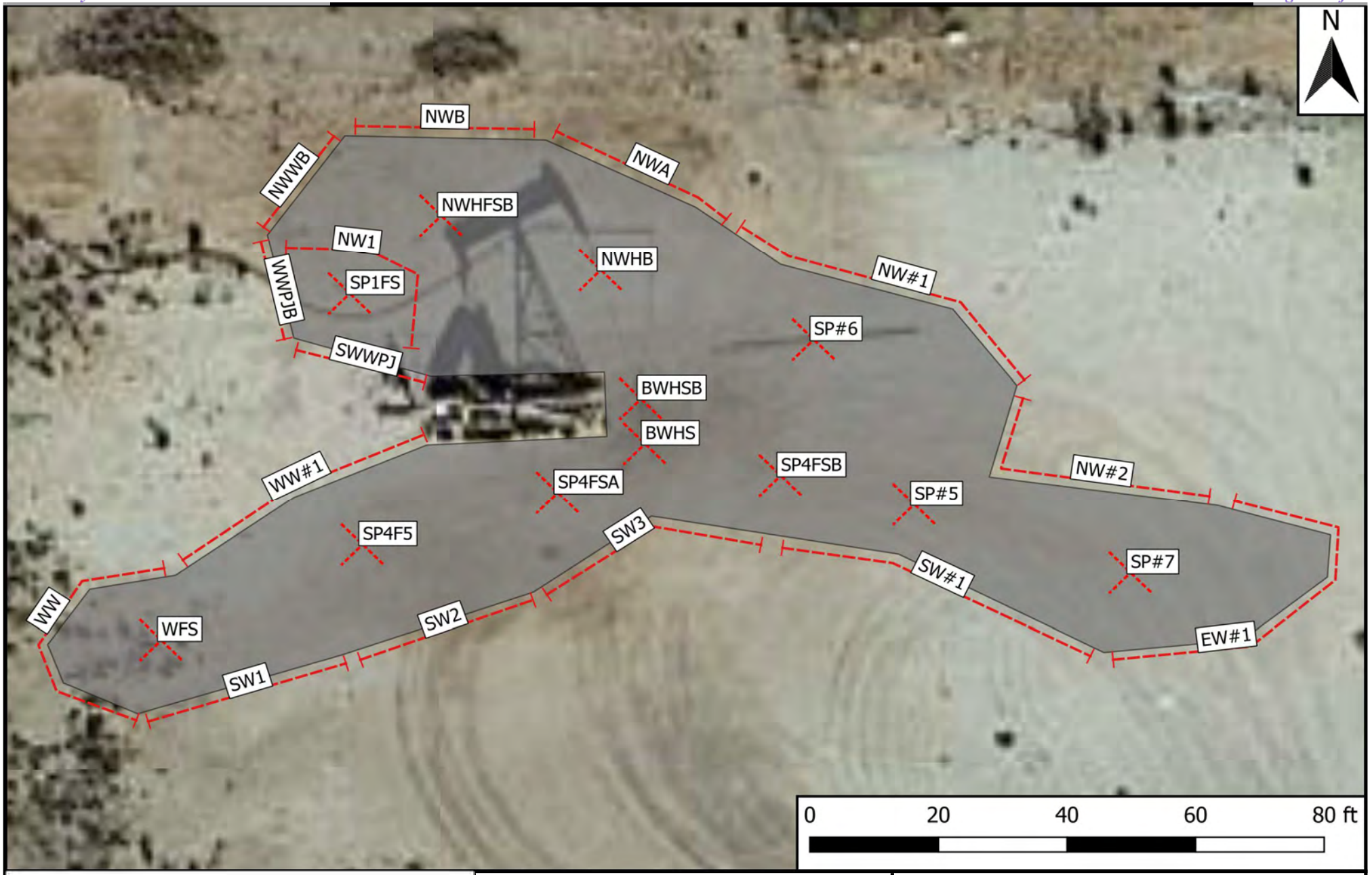


Figure 2
Aerial Map
Endeavor Energy Resources, LP
Hopi Federal #2 (4-5-2020)
GPS: 32.16416, -104.04459
Eddy County

eTECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 4/13/20

Figure 3
Site and Sample Location Map



Legend

- Wall Sample
- Floor Sample
- Excavated Area

Figure 3

Site and Sample Location Map

Endeavor Energy Resources, LP

Hopi Federal #2 (4-5-2020)

GPS: 32.16416, -104.04459

Eddy County

eTECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 8/31/20

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

TABLE 1
CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL
Endeavor Energy Resources, LP
Hopi Federal #2 (4-5-2020)
NMOCD Ref. #: pending

NMOCD Closure Criteria				10	50	-	-	-	-	100	600
				SW 846 8021B		SW 846 8015M Ext.					4500 Cl
Sample ID	Date	Depth	Soil Status	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)
NH1	4/7/2020	Surface	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	<5.00
NH1	4/7/2020	1'	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	12.5
NH2	4/7/2020	Surface	In-Situ	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	8.13
NH2	4/7/2020	1'	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	135
EH1	4/7/2020	Surface	In-Situ	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	118
EH1	4/7/2020	1'	In-Situ	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	9.26
EH2	4/7/2020	Surface	In-Situ	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	8.84
EH2	4/7/2020	1'	In-Situ	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	247
SH1	4/7/2020	Surface	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	100
SH1	4/7/2020	1'	In-Situ	<0.00200	<0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	81.8
SH2	4/7/2020	Surface	In-Situ	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	<5.04
SH2	4/7/2020	1'	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	<5.03
Sp1	4/7/2020	Surface	Excavated	<0.00200	<0.00200	<49.9	123	123	<49.9	**123**	**24,700**
SP1	4/7/2020	3'-R	Excavated	<0.00202	<0.00202	<49.8	<49.8	<49.8	<49.8	<49.8	**3,440**
SP2	4/7/2020	Surface	Excavated	<0.00200	<0.00200	<50.0	115	115	<50.0	**115**	**28,500**
SP2	4/7/2020	4'-R	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	435
SP3	4/7/2020	Surface	Excavated	<0.00200	<0.00200	<49.9	96.3	96.0	<49.9	96.3	**16,600**
SP3	4/7/2020	4'-R	Excavated	<0.00201	<0.00201	<49.8	<49.8	<49.8	<49.8	<49.8	**2,210**
SP4	4/7/2020	Surface	Excavated	<0.00200	0.0163	<50.0	119	119	<50.0	**119**	**17,400**
SP4	4/7/2020	3'-R	Excavated	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	**6,250**
WH1	4/7/2020	Surface	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	9.14X
WH1	4/7/2020	1'	In-Situ	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	33.2
WH2	4/7/2020	Surface	In-Situ	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	<5.04
WH2	4/7/2020	1'	In-Situ	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	<5.03
SP1 @ 5'	7/16/2020	5'	Excavated	-	-	-	-	-	-	-	**1,140**
SP3 @ 3'	7/16/2020	3'	In-Situ	-	-	-	-	-	-	-	336
SP4 @ 5'	7/16/2020	5'	In-Situ	-	-	-	-	-	-	-	432
SP1 @ 7'	7/22/2020	7'	In-Situ	-	-	-	-	-	-	-	204
NWW	8/4/2020		Excavated	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	**4,050**
NWHFSB @ 4'	8/4/2020	4'	In-Situ	<0.00198	<0.00198	<49.8	<49.8	<49.8	<49.8	<49.8	546
WWWPJ	8/4/2020		Excavated	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	**731**
WW	8/4/2020		In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	114
NWH @ 3'	8/4/2020	3'	Excavated	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	**922**
NWA	8/4/2020		In-Situ	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	181
WFS	8/4/2020		In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	444
SWWPJ	8/4/2020		In-Situ	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	181
SP1FS @ 8'	8/4/2020	8'	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	109
NWB	8/4/2020		In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	500
NW1	8/5/2020		In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	369
SW1	8/5/2020		In-Situ	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	455
SW2	8/5/2020		In-Situ	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	594
SW3	8/6/2020		In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	460

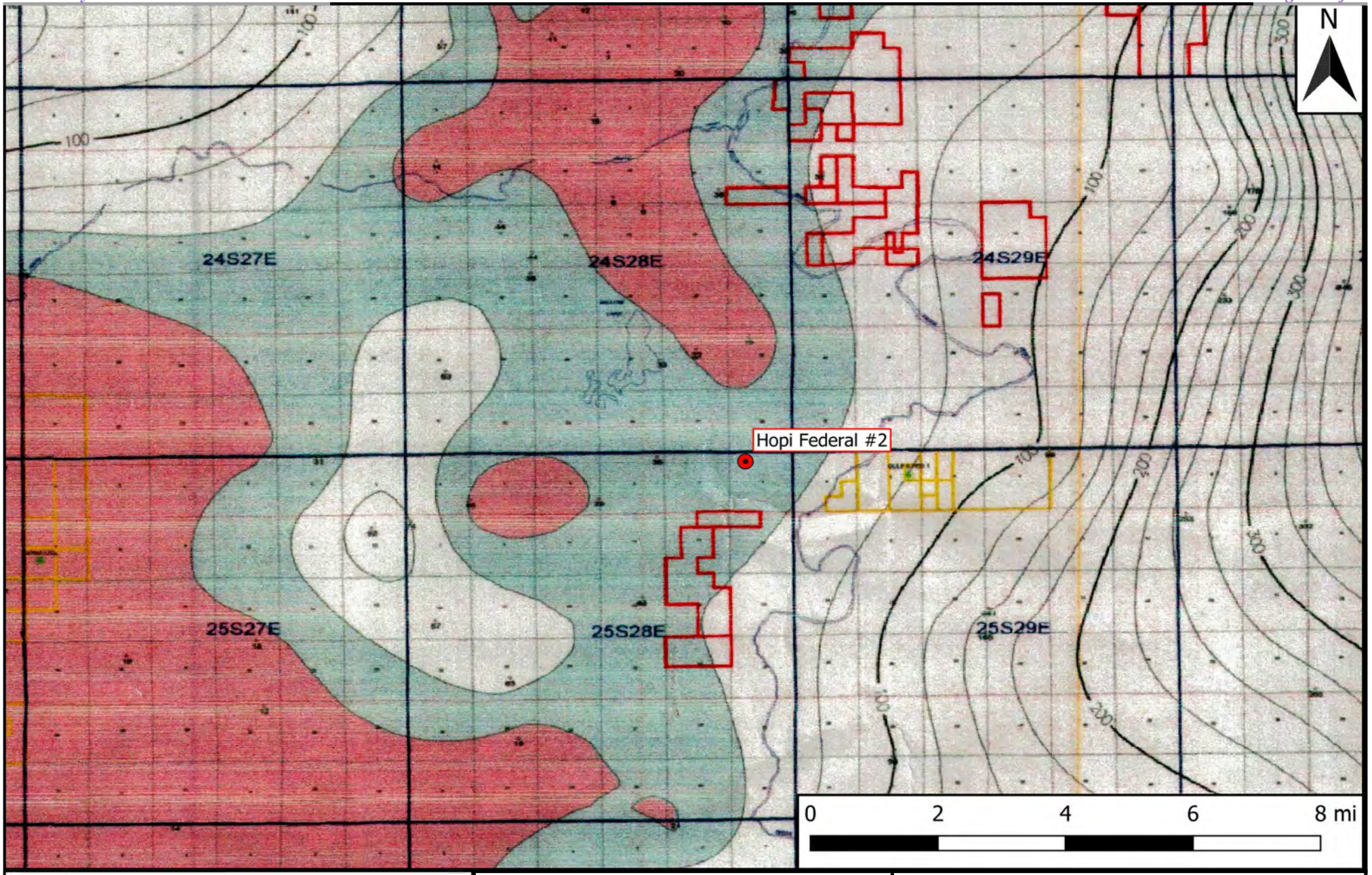
NOTES:
- = Sample not analyzed for that constituent.
Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

TABLE 1
CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL
Endeavor Energy Resources, LP
Hopi Federal #2 (4-5-2020)
NMOCD Ref. #: pending

NMOCD Closure Criteria				10	50	-	-	-	-	100	600
				SW 846 8021B		SW 846 8015M Ext.					4500 Cl
Sample ID	Date	Depth	Soil Status	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)
BWHS @ 5'	8/6/2020	5'	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	162
SP4FS @ 5'	8/5/2020	5'	Excavated	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	**623**
SP4FSA @ 5'	8/5/2020	5'	In-Situ	<0.00198	<0.00198	<49.8	<49.8	<49.8	<49.8	<49.8	315
SP4FSB @ 7'	8/6/2020	7'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	62.2
SP #5 @ 2'	8/10/2020	2'	In-Situ	<0.00200	0.00257	<49.9	<49.9	<49.9	<49.9	<49.9	280
SP #6 @ 4'	8/10/2020	4'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	50.6
SP #7 @ 4'	8/10/2020	4'	In-Situ	0.00226	0.00595	<49.9	<49.9	<49.9	<49.9	<49.9	216
NW #1	8/10/2020		In-Situ	<0.00200	0.00407	<49.8	<49.8	<49.8	<49.8	<49.8	424
NW #2	8/10/2020		In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	112
EW #1	8/10/2020		In-Situ	<0.00200	0.00215	<49.9	<49.9	<49.9	<49.9	<49.9	347
SW#1	8/10/2020		In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	171
WW #1	8/10/2020		In-Situ	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	163
NWHB @ 4'	8/10/2020	4'	In-Situ	<0.00198	0.00237	<50.0	<50.0	<50.0	<50.0	<50.0	375
BWHSB @1'	8/10/2020	1'	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	518
WWPJB	8/10/2020		In-Situ	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	392
NWWB	8/10/2020		In-Situ	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	257
SP4F5 @6'	8/12/2020	6'	In-Situ	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	152

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

Appendix A
Depth to Groundwater Information



Legend

Site Location

Figure 4

Inferred Depth to Groundwater Trend Map

Endeavor Energy Resources, LP

Hopi Federal #2 (4-5-2020)

GPS: 32.16416, -104.04459

Eddy County

eTECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 4/13/20

New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 01880		C	ED	3	3	2	06	25S	29E	592161	3558605*	2120	85	40	45
C 00857		CUB	ED	3	1	4	30	24S	29E	592135	3561440*	3163	306		
C 03423		CUB	ED	2	4	1	26	24S	28E	588786	3561952	3196	126		

Average Depth to Water: **40 feet**

Minimum Depth: **40 feet**

Maximum Depth: **40 feet**

Record Count: 3

UTMNAD83 Radius Search (in meters):

Easting (X): 590084.25 **Northing (Y):** 3559031.68 **Radius:** 3220

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

New Mexico Office of the State Engineer

Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	C 00857	3	1	4	30	24S	29E	592135	3561440*

Driller License: 857 **Driller Company:** HIGH COUNTRY DRILLING & TRANSP

Driller Name: E.O. BURKE

Drill Start Date: 12/02/1958 **Drill Finish Date:** 12/16/1958 **Plug Date:**

Log File Date: 06/29/1959 **PCW Rcv Date:** **Source:** Shallow

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

Casing Size: **Depth Well:** 306 feet **Depth Water:**

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

New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Twws	Rng	(NAD83 UTM in meters) X	Y
	C 01880	3	3	2	06	25S	29E	592161	3558605*

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

Driller Name: MURRELL ABBOTT

Drill Start Date:	10/29/1979	**Drill Finish Date:**	10/30/1979	**Plug Date:**	
Log File Date:	11/05/1979	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:	7.00	**Depth Well:**	85 feet	**Depth Water:**	40 feet

Water Bearing Stratifications:	Top	Bottom	Description
	40	85	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	40	60

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

New Mexico Office of the State Engineer

Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Twn	Rng	X	Y
	C 03423	2	4	1	26	24S	28E	588786	3561952

Driller License: 410 **Driller Company:** BRININSTOOL, A.M.

Driller Name: A.M. BRININSTOOL

Drill Start Date: **Drill Finish Date:** 12/06/1965 **Plug Date:**

Log File Date: 12/07/1965 **PCW Rcv Date:** **Source:** Shallow

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

Casing Size: 16.00 **Depth Well:** 126 feet **Depth Water:**

Water Bearing Stratifications:	Top	Bottom	Description
	115	125	Limestone/Dolomite/Chalk

Casing Perforations:	Top	Bottom
	45	125

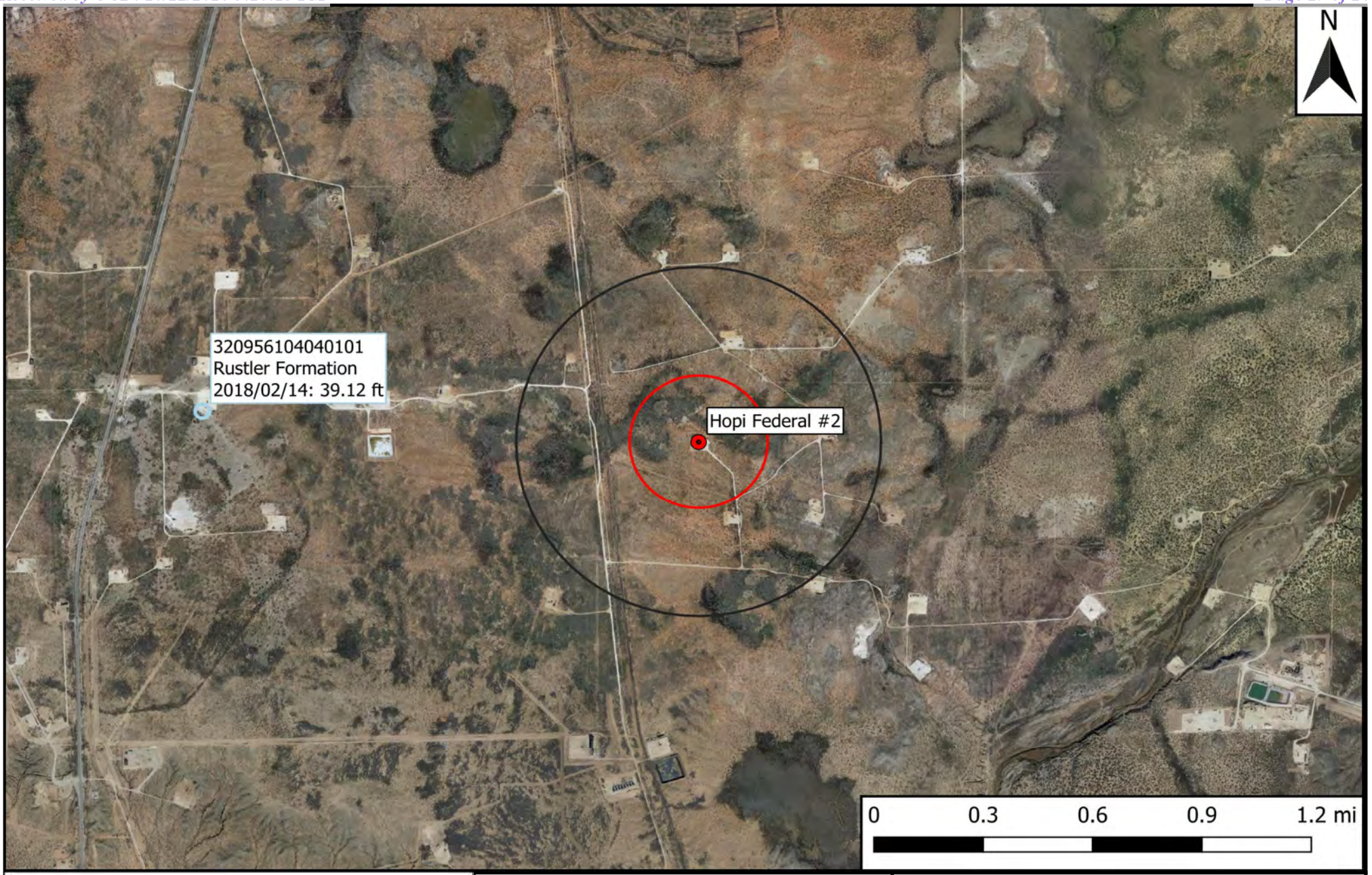


Figure 5
USGS Well Proximity Map
Endeavor Energy Resources, LP
Hopi Federal #2 (4-5-2020)
GPS: 32.16416, -104.04459
Eddy County

ETECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 4/13/20

Click to hideNews Bulletins

- **Notice** - The USGS Water Resources Mission Area's priority is to maintain the safety and well-being of our communities, including providing critical situational awareness in times of flooding in all 50 U.S. states and additional territories. Our hydrologic monitoring stations continue to send data in near real-time to NWISWeb, and we are continuing critical water monitoring activities to protect life and property on a case-by-case basis. The health and safety of the public and our employees are our highest priorities, and we continue to follow guidance from the White House, the CDC, and state and local authorities.

- 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 =
- 320956104040101

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

USGS 320956104040101 25S.28E.03.22231

Eddy County, New Mexico
Latitude 32°09'56.2", Longitude 104°04'04.1" NAD83
Land-surface elevation 2,990.20 feet above NGVD29
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1948-12-06		D	32.27			2		U		U	A
1978-01-03		D	32.97			2		U		U	A
1983-02-01		D	25.87			2		U		U	A
1987-10-14		D	29.27			2		U		U	A
1988-03-22		D	29.93			2		U		U	A
1992-11-04		D	35.03			2		S		U	A
1998-01-23		D	33.84			2		S		U	A
2003-01-27		D	32.08			2		S	USGS	A	A
2013-01-10	14:20 MST	m	33.56			2		S	USGS	R	A
2018-02-14	09:56 MST	m	39.12			2		V	USGS	S	A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	S	Steel-tape measurement.
Method of measurement	U	Unknown method.
Method of measurement	V	Calibrated electric-tape measurement.

Section	Code	Description
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement	A	Reported by another government agency (do not use "A" if reported by owner, use "O").
Source of measurement	R	Reported by person other than the owner, driller, or another government agency.
Source of measurement	S	Measured by personnel of reporting agency.
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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

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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: 2020-04-13 15:35:05 EDT
0.27 0.24 nadww01

Appendix B
Field Data and Soil Profile Logs

eTECH Environmental & Safety Solutions, Inc.

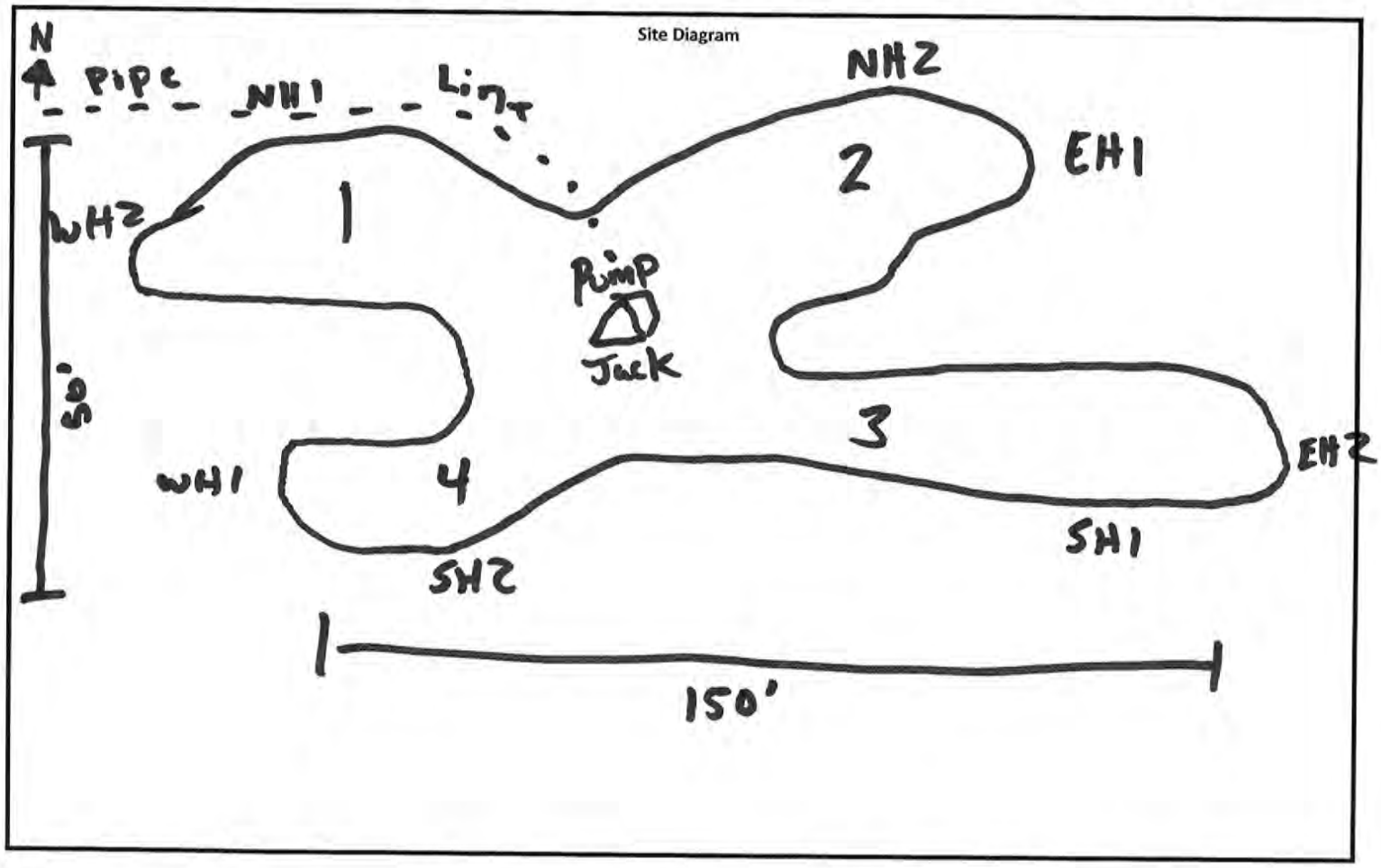
Initial Release Assessment Form

Date: 4.7.20

Project: Hopi Federal #2

Project Number: 12289 Latitude: 32.16416 Clean Up Level: Longitude: -104.04459

Site Diagram



Notes:

~Length: 150 ~Width: 50 ~Area: ~Depth: 3'+

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

eTECH Environmental & Safety Solutions, Inc.

Sample Log

Date: 4.7.20

Project: Hopi Federal #2 (4-5-2020)

Project Number: 12289 Latitude: 32.16416 Longitude: -104.04459

Sample ID	PID/Odor	Chloride Conc.	GPS
NH1@surface	none	>124	
NH1@1'	none	>124	
NH2@surface	none	>124	
NH2@1'	none	248	
EH1@surface	none	148	
EH1@1'	none	556	
EH2@surface	none	>124	
EH2@1'	none	348	
SH1@surface	none	196	
SH1@1'	none	>124	
SH2@surface	none	>124	
SH2@1'	none	>124	
WH1@surface	none	>124	
WH1@1'	none	>124	
WH2@surface	none	>124	
WH2@1'	none	>124	
SP1@surface	strong	19368	
SP1@1'	slight	4176 ☆	
SP2@surface	strong	1528	
SP2@1'	light	2156 ☆	
SP1@2'	none	2008 ☆	
SP1@3'-R	none	2504	
SP2@2'	none	1064 ☆	
SP2@3'	none	848	
SP2@4'-R	none	424	
SP3@surface	strong	12320	
SP3@1'	light	8776 ☆	
SP4@surface	strong	9584	
SP4@1'	light	7392 ☆	
SP3@2'	light	2504 ☆	
SP3@3'	none	1872 ☆	
SP4@2'	light	2504 ☆	
SP4@3'-R	none	4176	
SP3@4'-R	none	1744	

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

☆ - Did Not go to Lab!

eTECH Environmental & Safety Solutions, Inc.

Initial Release Assessment Form

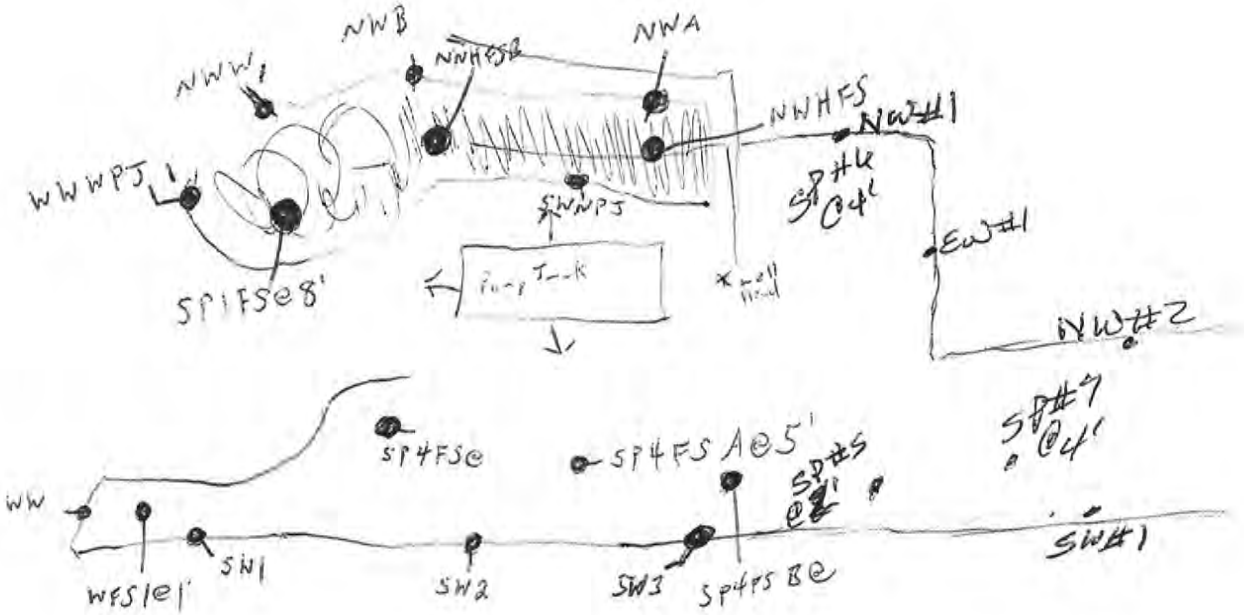
Date: 7/16/20

Project: Hopi Federal #2 (4-5-2020) Clean Up Level: 0

Project Number: 12289 Latitude: 32.16416 Longitude: -104.04459

N

Site Diagram



W E

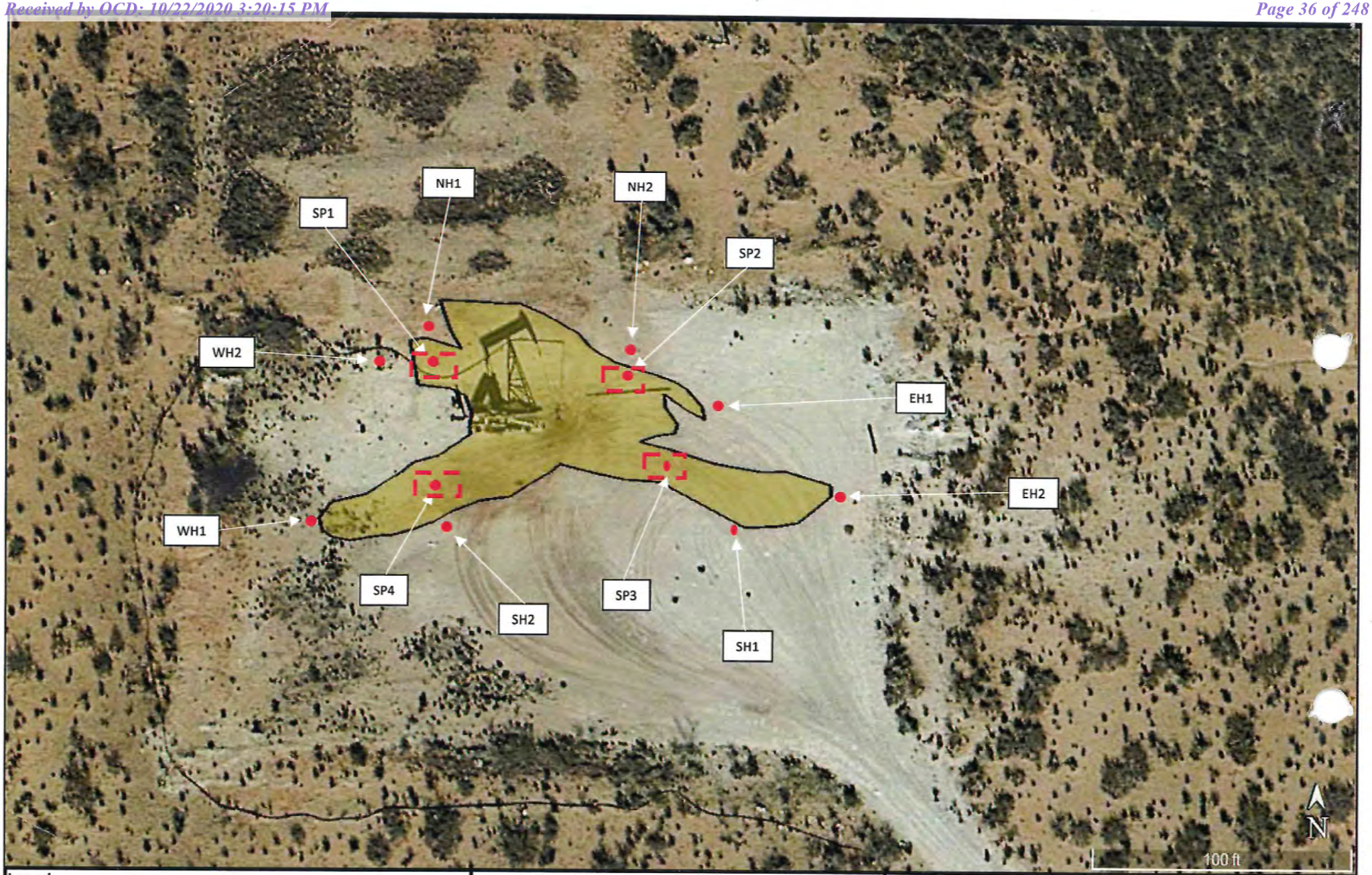
S

Notes:

Refusal on SWNPJ: 10' From base of Pump Jack

~Length: 290' ~Width: 90' ~Area: 7000 sq ft ~Depth: 8'

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



Legend:

- Pipeline
- Sample Point
- Test Trench
- Excavated Area

Figure 1

Site Diagram
Hopi Federal #2 (4-5-2020)
Endeavor Energy Resources, LP
GPS: 32.16416, -104.04459

eTECH Environmental & Safety Solutions, Inc.

Drafted: Checked: jwl Date: 7/17/20

ETECH Environmental & Safety Solutions, Inc.

Sample Log

Date: 7-16-20

Project: Hopi Federal #2 (4-5-2020)

Project Number: 12289 Latitude: 32.16416 Longitude: -104.04459

Sample ID	PID/Odor	Chloride Conc.	GPS
SP1@3'	no	720	
SP1@4'	no	720	
SP1@5'	no	320	
SP3@3'	no	360	
SP4@1'	no	13,484	
SP4@2	no	1692	
SP4@3	no	[redacted] 4144	
SP4@4	no	[redacted] 508	
SP4@5	no	320	
SP1@6'	NO	1152	
SP1@7'	NO	[redacted] 236	
8-3 20			
WFS1@	no	[redacted] 476	
WW@	no	[redacted] 184	
NWH@3	Mild	17368/2388/1244/732/796/676/520	
NWA	no	796/620/276	
NWHFSR	no	1156/568/388	
NWB	no	520	
VWW	no	276	
[redacted]	[redacted]	[redacted]	
[redacted] SP1FS@5'	no	244	
SWWPJ	no	1336/732/388	
SWNPJ	no	1080	*Refusal - 10' Pvc Pump Jack
WWWPJ	no	520	
SW1	no	1156/476	
SP4FS@[redacted]5'	no	388	
NW1	no	312	
NW2			
SW2	no	476	
SP4FSA@5'	no	432	
SP4FSB@7'	no	276	
SW3	no	520	
BWH5@5'	no	312	

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

2082

ETECH Environmental & Safety Solutions, Inc.

Sample Log

Date: 8-7-20

Project: Hobbs FED #2

Project Number: 12289 Latitude: 32.16416 Longitude: -104.04459

Sample ID	PID/Odor	Chloride Conc.	GPS
SP#5 @4	NO	336	
SP#6	NO	132	
NW#1	NO	464	
EW#1	NO	336	
SP#7	NO	208	
NW#2	NO	180	
SW#1	NO	208	
WW#1	NO	208	
NW WB [redacted]	NO	236	
BWHSP#6'	NO	376	
NWHB @4'	NO	236	
[redacted] SPFS@6'	NO	208	

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

TECH Environmental & Safety Solutions, Inc.

Soil Profile

Date: 7/16/20

Project: Hopi Federal #2 (4-5-2020)

Project Number: 12289 Latitude: 32.16416 Longitude: -104.04459

Depth (ft. bgs)	Description
1	Cal.che
2	red
3	red
4	red/cal.che
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
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eTECH Environmental & Safety Solutions, Inc.

Remediation Log

Project: HOBBS #2
Project Number: 12259 Latitude: 32.16416 Longitude: -104.04459

	Yes	No
Confirmation of Active One Call? One Call No. 203422 0180	☒	☐
Confirmation of On-Site JSA?	☒	☐

Date:	Notes	Yds Out	Yds In
	****Begin Remediation Activities****		
8-4-20	Hauled off impacted material	240	
8-4-20	Hauled in Caliche		180
8-7-20	Hauled off impacted material	240	
8-7-20	Hauled in Caliche		180
8-10-20	Hauled off impacted material	240	
8-10-20	Hauled in Caliche		180
8-11-20	Hauled out impacted material	140	
8-11-20	Hauled in Caliche		140
8-12-20	Hauled in Caliche		180
8-17-20	Hauled in Caliche		80
	****Begin Backfill Activies****		
	****Complete Remediation Activities****		
	Total Yds	860	940

	Yes	No
Pictures of Open Excavation Prior to Backfill	☑	☐
Relevant Information in Project Folder?	☑	☐

Appendix C
Laboratory Analytical Reports

Certificate of Analysis Summary 658394

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Hopi Federal #2

Project Id: 12289
Contact: Joel Lowry
Project Location: Eddy Co, NM

Date Received in Lab: Thu 04.09.2020 11:15
Report Date: 04.16.2020 11:42
Project Manager: Jessica Kramer

Analysis Requested		658394-001		658394-002		658394-003		658394-004		658394-005		658394-006	
	Lab Id:	658394-001		658394-002		658394-003		658394-004		658394-005		658394-006	
	Field Id:	NH1 @ Surface		NH1 @ 1'		NH2 @ Surface		NH2 @ 1'		EH1 @ Surface		EH1 @ 1'	
	Depth:			1- ft				1- ft				1- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	04.07.2020 00:00		04.07.2020 00:00		04.07.2020 00:00		04.07.2020 00:00		04.07.2020 00:00		04.07.2020 00:00	
BTEX by EPA 8021B	*Extracted:*	04.14.2020 09:30		04.14.2020 09:30		04.14.2020 09:30		04.14.2020 09:30		04.14.2020 09:30		04.14.2020 09:30	
	Analyzed:	04.14.2020 12:35		04.14.2020 12:55		04.14.2020 17:33		04.14.2020 17:54		04.14.2020 18:14		04.14.2020 18:35	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00199	0.00199	<0.00198	0.00198
Toluene		<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00199	0.00199	<0.00198	0.00198
Ethylbenzene		<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00199	0.00199	<0.00198	0.00198
m,p-Xylenes		<0.00398	0.00398	<0.00399	0.00399	<0.00397	0.00397	<0.00398	0.00398	<0.00398	0.00398	<0.00396	0.00396
o-Xylene		<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00199	0.00199	<0.00198	0.00198
Total Xylenes		<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00199	0.00199	<0.00198	0.00198
Total BTEX		<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00199	0.00199	<0.00198	0.00198
Chloride by EPA 300	*Extracted:*	04.10.2020 08:05		04.10.2020 08:05		04.10.2020 08:05		04.10.2020 08:05		04.10.2020 08:05		04.10.2020 08:05	
	Analyzed:	04.10.2020 09:52		04.10.2020 09:58		04.10.2020 11:27		04.10.2020 10:08		04.10.2020 10:29		04.10.2020 10:13	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		<5.00	5.00	12.5	5.03	8.13	5.03	135	25.1	118	50.4	9.26	4.99
TPH By SW8015 Mod	*Extracted:*	04.10.2020 12:00		04.10.2020 12:00		04.10.2020 12:00		04.10.2020 12:00		04.10.2020 12:00		04.10.2020 12:00	
	Analyzed:	04.10.2020 14:33		04.10.2020 15:29		04.10.2020 15:47		04.10.2020 16:06		04.10.2020 16:24		04.10.2020 16:43	
	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	<49.8	49.8	<50.0	50.0	<50.0	50.0	<49.9	49.9	<50.0	50.0
Diesel Range Organics (DRO)		<50.0	50.0	<49.8	49.8	<50.0	50.0	<50.0	50.0	<49.9	49.9	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<49.8	49.8	<50.0	50.0	<50.0	50.0	<49.9	49.9	<50.0	50.0
Total TPH		<50.0	50.0	<49.8	49.8	<50.0	50.0	<50.0	50.0	<49.9	49.9	<50.0	50.0

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Jessica Kramer
Project Manager

Certificate of Analysis Summary 658394

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Hopi Federal #2

Project Id: 12289
Contact: Joel Lowry
Project Location: Eddy Co, NM

Date Received in Lab: Thu 04.09.2020 11:15
Report Date: 04.16.2020 11:42
Project Manager: Jessica Kramer

Analysis Requested	*Lab Id:*	658394-007		658394-008		658394-009		658394-010		658394-011		658394-012	
	Field Id:	EH2 @ Surface		EH2 @ 1'		SH1 @ Surface		SH1 @ 1'		SH2 @ Surface		SH2 @ 1'	
	Depth:			1- ft				1- ft				1- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	04.07.2020 00:00		04.07.2020 00:00		04.07.2020 00:00		04.07.2020 00:00		04.07.2020 00:00		04.07.2020 00:00	
BTEX by EPA 8021B	*Extracted:*	04.14.2020 09:30		04.14.2020 09:30		04.14.2020 09:30		04.14.2020 09:30		04.14.2020 09:30		04.14.2020 09:30	
	Analyzed:	04.14.2020 18:55		04.14.2020 19:16		04.14.2020 19:36		04.14.2020 19:56		04.14.2020 20:17		04.14.2020 20:37	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00198	0.00198	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202	<0.00199	0.00199
Toluene		<0.00198	0.00198	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202	<0.00199	0.00199
Ethylbenzene		<0.00198	0.00198	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202	<0.00199	0.00199
m,p-Xylenes		<0.00396	0.00396	<0.00402	0.00402	<0.00399	0.00399	<0.00401	0.00401	<0.00403	0.00403	<0.00398	0.00398
o-Xylene		<0.00198	0.00198	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202	<0.00199	0.00199
Total Xylenes		<0.00198	0.00198	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202	<0.00199	0.00199
Total BTEX		<0.00198	0.00198	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202	<0.00199	0.00199
Chloride by EPA 300	*Extracted:*	04.10.2020 08:05		04.10.2020 08:05		04.10.2020 08:05		04.10.2020 08:05		04.10.2020 08:05		04.10.2020 08:05	
	Analyzed:	04.10.2020 11:32		04.10.2020 10:50		04.10.2020 10:56		04.10.2020 11:01		04.10.2020 13:33		04.10.2020 13:40	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		8.84	4.99	247	25.0	100	24.9	81.8	25.0	<5.04	5.04	<5.03	5.03
TPH By SW8015 Mod	*Extracted:*	04.10.2020 12:00		04.10.2020 12:00		04.10.2020 12:00		04.10.2020 12:00		04.10.2020 12:00		04.10.2020 12:00	
	Analyzed:	04.10.2020 17:01		04.10.2020 17:20		04.10.2020 17:39		04.10.2020 17:57		04.10.2020 18:34		04.10.2020 18:52	
	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	<50.0	50.0	<49.9	49.9	<50.0	50.0	<50.0	50.0
Diesel Range Organics (DRO)		<49.9	49.9	<50.0	50.0	<50.0	50.0	<49.9	49.9	<50.0	50.0	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	<50.0	50.0	<50.0	50.0	<49.9	49.9	<50.0	50.0	<50.0	50.0
Total TPH		<49.9	49.9	<50.0	50.0	<50.0	50.0	<49.9	49.9	<50.0	50.0	<50.0	50.0

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Jessica Kramer
Project Manager

Certificate of Analysis Summary 658394

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Hopi Federal #2

Project Id: 12289
Contact: Joel Lowry
Project Location: Eddy Co, NM

Date Received in Lab: Thu 04.09.2020 11:15
Report Date: 04.16.2020 11:42
Project Manager: Jessica Kramer

Analysis Requested	*Lab Id:*	658394-013		658394-014		658394-015		658394-016		658394-017		658394-018	
	Field Id:	SP1 @ Surface		SP1 @ 3'-R		SP2 @ Surface		SP2 @ 4'-R		SP3 @ Surface		SP3 @ 4'R	
	Depth:			3- ft				4- ft				4- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	04.07.2020 00:00		04.07.2020 00:00		04.07.2020 00:00		04.07.2020 00:00		04.07.2020 00:00		04.07.2020 00:00	
BTEX by EPA 8021B	*Extracted:*	04.14.2020 16:00		04.14.2020 16:00		04.14.2020 16:00		04.14.2020 16:00		04.14.2020 16:00		04.15.2020 10:00	
	Analyzed:	04.15.2020 06:10		04.15.2020 06:31		04.15.2020 06:51		04.15.2020 07:12		04.15.2020 07:32		04.15.2020 13:53	
	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	<0.00202	0.00202	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201
Toluene		<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201
Ethylbenzene		<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201
m,p-Xylenes		<0.00399	0.00399	<0.00404	0.00404	<0.00400	0.00400	<0.00398	0.00398	<0.00399	0.00399	<0.00402	0.00402
o-Xylene		<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201
Total Xylenes		<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201
Total BTEX		<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201
Chloride by EPA 300	*Extracted:*	04.10.2020 08:05		04.10.2020 08:05		04.10.2020 14:50		04.10.2020 14:50		04.10.2020 14:50		04.10.2020 14:50	
	Analyzed:	04.10.2020 11:17		04.10.2020 11:22		04.10.2020 15:32		04.10.2020 15:38		04.10.2020 15:43		04.10.2020 15:48	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		24700	252	3440	50.1	28500	251	435	50.3	16600	248	2210	49.7
TPH By SW8015 Mod	*Extracted:*	04.10.2020 12:00		04.10.2020 12:00		04.10.2020 12:00		04.10.2020 12:00		04.10.2020 12:00		04.10.2020 12:00	
	Analyzed:	04.10.2020 19:11		04.10.2020 19:29		04.10.2020 19:47		04.10.2020 20:05		04.10.2020 20:24		04.10.2020 20:42	
	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	<49.8	49.8	<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.8	49.8
Diesel Range Organics (DRO)		123	49.9	<49.8	49.8	115	50.0	<50.0	50.0	96.3	49.9	<49.8	49.8
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	<49.8	49.8	<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.8	49.8
Total TPH		123	49.9	<49.8	49.8	115	50.0	<50.0	50.0	96.3	49.9	<49.8	49.8

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Jessica Kramer
Project Manager

Certificate of Analysis Summary 658394

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Hopi Federal #2

Project Id: 12289
Contact: Joel Lowry
Project Location: Eddy Co, NM

Date Received in Lab: Thu 04.09.2020 11:15
Report Date: 04.16.2020 11:42
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	658394-019		658394-020		658394-021		658394-022		658394-023		658394-024	
	Field Id:	SP4 @ Surface		SP4 @ 3'-R		WH1 @ Surface		WH1 @ 1'		WH2 @ Surface		WH2 @ 1'	
	Depth:			3- ft				1- ft				1- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	04.07.2020 00:00		04.07.2020 00:00		04.07.2020 00:00		04.07.2020 00:00		04.07.2020 00:00		04.07.2020 00:00	
BTEX by EPA 8021B	***Extracted:***	04.11.2020 11:45		04.11.2020 11:45		04.11.2020 11:45		04.11.2020 11:45		04.11.2020 11:45		04.11.2020 11:45	
	Analyzed:	04.13.2020 03:27		04.13.2020 03:48		04.13.2020 04:08		04.13.2020 04:28		04.13.2020 04:49		04.13.2020 05:09	
	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	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201	<0.00199	0.00199
Toluene		0.00297	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201	<0.00199	0.00199
Ethylbenzene		0.00237	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201	<0.00199	0.00199
m,p-Xylenes		0.00658	0.00401	<0.00399	0.00399	<0.00400	0.00400	<0.00398	0.00398	<0.00402	0.00402	<0.00398	0.00398
o-Xylene		0.00442	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201	<0.00199	0.00199
Total Xylenes		0.0110	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201	<0.00199	0.00199
Total BTEX		0.0163	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201	<0.00199	0.00199
Chloride by EPA 300	***Extracted:***	04.10.2020 14:50		04.10.2020 14:50		04.13.2020 10:35		04.10.2020 14:50		04.10.2020 14:50		04.10.2020 14:50	
	Analyzed:	04.10.2020 16:04		04.10.2020 16:09		04.13.2020 12:18		04.10.2020 16:20		04.10.2020 15:17		04.10.2020 16:30	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		17400	251	6250	49.9	9.14 X	5.03	33.2	25.1	<5.04	5.04	<5.03	5.03
TPH By SW8015 Mod	***Extracted:***	04.10.2020 12:00		04.10.2020 12:00		04.09.2020 14:00		04.09.2020 14:00		04.09.2020 14:00		04.09.2020 14:00	
	Analyzed:	04.10.2020 21:00		04.10.2020 21:18		04.09.2020 23:00		04.09.2020 23:18		04.09.2020 23:36		04.09.2020 23:54	
	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	<49.8	49.8	<49.9	49.9	<49.9	49.9	<49.9	49.9
Diesel Range Organics (DRO)		119	50.0	<50.0	50.0	<49.8	49.8	<49.9	49.9	<49.9	49.9	<49.9	49.9
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<50.0	50.0	<49.8	49.8	<49.9	49.9	<49.9	49.9	<49.9	49.9
Total TPH		119	50.0	<50.0	50.0	<49.8	49.8	<49.9	49.9	<49.9	49.9	<49.9	49.9

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Jessica Kramer
Project Manager

Analytical Report 658394

for

Etech Environmental & Safety Solution, Inc

Project Manager: Joel Lowry

Hopi Federal #2

12289

04.16.2020

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)

04.16.2020

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

Reference: XENCO Report No(s): **658394**
Hopi Federal #2
Project Address: Eddy Co, NM

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) 658394. 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. 658394 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 Manager

A Small Business and Minority Company

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

Sample Cross Reference 658394

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
NH1 @ Surface	S	04.07.2020 00:00		658394-001
NH1 @ 1'	S	04.07.2020 00:00	1 ft	658394-002
NH2 @ Surface	S	04.07.2020 00:00		658394-003
NH2 @ 1'	S	04.07.2020 00:00	1 ft	658394-004
EH1 @ Surface	S	04.07.2020 00:00		658394-005
EH1 @ 1'	S	04.07.2020 00:00	1 ft	658394-006
EH2 @ Surface	S	04.07.2020 00:00		658394-007
EH2 @ 1'	S	04.07.2020 00:00	1 ft	658394-008
SH1 @ Surface	S	04.07.2020 00:00		658394-009
SH1 @ 1'	S	04.07.2020 00:00	1 ft	658394-010
SH2 @ Surface	S	04.07.2020 00:00		658394-011
SH2 @ 1'	S	04.07.2020 00:00	1 ft	658394-012
SP1 @ Surface	S	04.07.2020 00:00		658394-013
SP1 @ 3'-R	S	04.07.2020 00:00	3 ft	658394-014
SP2 @ Surface	S	04.07.2020 00:00		658394-015
SP2 @ 4'-R	S	04.07.2020 00:00	4 ft	658394-016
SP3 @ Surface	S	04.07.2020 00:00		658394-017
SP3 @ 4'R	S	04.07.2020 00:00	4 ft	658394-018
SP4 @ Surface	S	04.07.2020 00:00		658394-019
SP4 @ 3'-R	S	04.07.2020 00:00	3 ft	658394-020
WH1 @ Surface	S	04.07.2020 00:00		658394-021
WH1 @ 1'	S	04.07.2020 00:00	1 ft	658394-022
WH2 @ Surface	S	04.07.2020 00:00		658394-023
WH2 @ 1'	S	04.07.2020 00:00	1 ft	658394-024

CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Hopi Federal #2

Project ID: *12289*
Work Order Number(s): *658394*

Report Date: *04.16.2020*
Date Received: *04.09.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3122828 Chloride by EPA 300
Lab Sample ID 658658-004 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 658394-021.
The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3122857 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3122998 BTEX by EPA 8021B
Lab Sample ID 658394-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene recovered below QC limits in the Matrix Spike. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 658394-001, -002.
The Laboratory Control Sample for Benzene is within laboratory Control Limits, therefore the data was accepted.
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.
Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected. Samples affected are: 658394-001.

Batch: LBA-3123032 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3123167 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analytical Results 658394

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id: **NH1 @ Surface** Matrix: Soil Date Received:04.09.2020 11:15
Lab Sample Id: 658394-001 Date Collected: 04.07.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P
Tech: CHE % Moisture:
Analyst: CHE Date Prep: 04.10.2020 08:05 Basis: Wet Weight
Seq Number: 3122712

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.00	5.00	mg/kg	04.10.2020 09:52	U	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
Tech: DVM % Moisture:
Analyst: ARM Date Prep: 04.10.2020 12:00 Basis: Wet Weight
Seq Number: 3122730

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.10.2020 14:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.10.2020 14:33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.10.2020 14:33	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.10.2020 14:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	79	%	70-130	04.10.2020 14:33	
o-Terphenyl	84-15-1	83	%	70-130	04.10.2020 14:33	

Certificate of Analytical Results 658394

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**NH1 @ Surface**	Matrix:	Soil	Date Received:	04.09.2020 11:15
Lab Sample Id:	658394-001	Date Collected:	04.07.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	04.14.2020 09:30	Basis:	Wet Weight
Seq Number:	3122998				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	04.14.2020 12:35	UX	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	04.14.2020 12:35	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	04.14.2020 12:35	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	04.14.2020 12:35	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	04.14.2020 12:35	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	04.14.2020 12:35	U	1
Total BTEX		<0.00199	0.00199	mg/kg	04.14.2020 12:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	107	%	70-130	04.14.2020 12:35	
4-Bromofluorobenzene	460-00-4	136	%	70-130	04.14.2020 12:35	**

Certificate of Analytical Results 658394

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**NH1 @ 1'**	Matrix:	Soil	Date Received:	04.09.2020 11:15
Lab Sample Id:	658394-002	Date Collected:	04.07.2020 00:00	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	04.10.2020 08:05	Basis:	Wet Weight
Seq Number:	3122712				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**12.5**	5.03	mg/kg	04.10.2020 09:58		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	04.10.2020 12:00	Basis:	Wet Weight
Seq Number:	3122730				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	04.10.2020 15:29	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	04.10.2020 15:29	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	04.10.2020 15:29	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	04.10.2020 15:29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	79	%	70-130	04.10.2020 15:29	
o-Terphenyl	84-15-1	82	%	70-130	04.10.2020 15:29	

Certificate of Analytical Results 658394

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**NH1 @ 1'**	Matrix:	Soil	Date Received:	04.09.2020 11:15
Lab Sample Id:	658394-002	Date Collected:	04.07.2020 00:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	04.14.2020 09:30	Basis:	Wet Weight
Seq Number:	3122998				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.14.2020 12:55	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	04.14.2020 12:55	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.14.2020 12:55	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	04.14.2020 12:55	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.14.2020 12:55	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.14.2020 12:55	U	1
Total BTEX		<0.00200	0.00200	mg/kg	04.14.2020 12:55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	108	%	70-130	04.14.2020 12:55	
4-Bromofluorobenzene	460-00-4	129	%	70-130	04.14.2020 12:55	

Certificate of Analytical Results 658394

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id: **NH2 @ Surface** Matrix: Soil Date Received:04.09.2020 11:15

Lab Sample Id: 658394-003 Date Collected: 04.07.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 04.10.2020 08:05 Basis: Wet Weight

Seq Number: 3122712

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**8.13**	5.03	mg/kg	04.10.2020 11:27		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 04.10.2020 12:00 Basis: Wet Weight

Seq Number: 3122730

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.10.2020 15:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.10.2020 15:47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.10.2020 15:47	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.10.2020 15:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	77	%	70-130	04.10.2020 15:47	
o-Terphenyl	84-15-1	80	%	70-130	04.10.2020 15:47	

Certificate of Analytical Results 658394

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**NH2 @ Surface**	Matrix:	Soil	Date Received:	04.09.2020 11:15
Lab Sample Id:	658394-003	Date Collected:	04.07.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	04.14.2020 09:30	Basis:	Wet Weight
Seq Number:	3122998				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	04.14.2020 17:33	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	04.14.2020 17:33	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	04.14.2020 17:33	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	04.14.2020 17:33	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	04.14.2020 17:33	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	04.14.2020 17:33	U	1
Total BTEX		<0.00198	0.00198	mg/kg	04.14.2020 17:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	102	%	70-130	04.14.2020 17:33	
1,4-Difluorobenzene	540-36-3	111	%	70-130	04.14.2020 17:33	

Certificate of Analytical Results 658394

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**NH2 @ 1'**	Matrix:	Soil	Date Received:	04.09.2020 11:15
Lab Sample Id:	658394-004	Date Collected:	04.07.2020 00:00	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	04.10.2020 08:05	Basis:	Wet Weight
Seq Number:	3122712				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**135**	25.1	mg/kg	04.10.2020 10:08		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	04.10.2020 12:00	Basis:	Wet Weight
Seq Number:	3122730				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.10.2020 16:06	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.10.2020 16:06	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.10.2020 16:06	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.10.2020 16:06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	79	%	70-130	04.10.2020 16:06	
o-Terphenyl	84-15-1	83	%	70-130	04.10.2020 16:06	

Certificate of Analytical Results 658394

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**NH2 @ 1'**	Matrix:	Soil	Date Received:	04.09.2020 11:15
Lab Sample Id:	658394-004	Date Collected:	04.07.2020 00:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	04.14.2020 09:30	Basis:	Wet Weight
Seq Number:	3122998				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	04.14.2020 17:54	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	04.14.2020 17:54	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	04.14.2020 17:54	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	04.14.2020 17:54	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	04.14.2020 17:54	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	04.14.2020 17:54	U	1
Total BTEX		<0.00199	0.00199	mg/kg	04.14.2020 17:54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	114	%	70-130	04.14.2020 17:54	
4-Bromofluorobenzene	460-00-4	115	%	70-130	04.14.2020 17:54	

Certificate of Analytical Results 658394

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id: **EH1 @ Surface** Matrix: Soil Date Received:04.09.2020 11:15
Lab Sample Id: 658394-005 Date Collected: 04.07.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P
Tech: CHE % Moisture:
Analyst: CHE Date Prep: 04.10.2020 08:05 Basis: Wet Weight
Seq Number: 3122712

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**118**	50.4	mg/kg	04.10.2020 10:29		10

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
Tech: DVM % Moisture:
Analyst: ARM Date Prep: 04.10.2020 12:00 Basis: Wet Weight
Seq Number: 3122730

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	04.10.2020 16:24	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	04.10.2020 16:24	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	04.10.2020 16:24	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	04.10.2020 16:24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	79	%	70-130	04.10.2020 16:24	
o-Terphenyl	84-15-1	82	%	70-130	04.10.2020 16:24	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**EH1 @ Surface**	Matrix:	Soil	Date Received:	04.09.2020 11:15
Lab Sample Id:	658394-005	Date Collected:	04.07.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	04.14.2020 09:30	Basis:	Wet Weight
Seq Number:	3122998				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	04.14.2020 18:14	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	04.14.2020 18:14	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	04.14.2020 18:14	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	04.14.2020 18:14	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	04.14.2020 18:14	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	04.14.2020 18:14	U	1
Total BTEX		<0.00199	0.00199	mg/kg	04.14.2020 18:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	118	%	70-130	04.14.2020 18:14	
1,4-Difluorobenzene	540-36-3	114	%	70-130	04.14.2020 18:14	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**EH1 @ 1'**	Matrix:	Soil	Date Received:	04.09.2020 11:15
Lab Sample Id:	658394-006	Date Collected:	04.07.2020 00:00	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	04.10.2020 08:05	Basis:	Wet Weight
Seq Number:	3122712				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**9.26**	4.99	mg/kg	04.10.2020 10:13		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	04.10.2020 12:00	Basis:	Wet Weight
Seq Number:	3122730				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.10.2020 16:43	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.10.2020 16:43	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.10.2020 16:43	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.10.2020 16:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	78	%	70-130	04.10.2020 16:43	
o-Terphenyl	84-15-1	82	%	70-130	04.10.2020 16:43	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**EH1 @ 1'**	Matrix:	Soil	Date Received:	04.09.2020 11:15
Lab Sample Id:	658394-006	Date Collected:	04.07.2020 00:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	04.14.2020 09:30	Basis:	Wet Weight
Seq Number:	3122998				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	04.14.2020 18:35	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	04.14.2020 18:35	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	04.14.2020 18:35	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	04.14.2020 18:35	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	04.14.2020 18:35	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	04.14.2020 18:35	U	1
Total BTEX		<0.00198	0.00198	mg/kg	04.14.2020 18:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	120	%	70-130	04.14.2020 18:35	
1,4-Difluorobenzene	540-36-3	113	%	70-130	04.14.2020 18:35	

Certificate of Analytical Results 658394

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id: **EH2 @ Surface** Matrix: Soil Date Received:04.09.2020 11:15
Lab Sample Id: 658394-007 Date Collected: 04.07.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P
Tech: CHE % Moisture:
Analyst: CHE Date Prep: 04.10.2020 08:05 Basis: Wet Weight
Seq Number: 3122712

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**8.84**	4.99	mg/kg	04.10.2020 11:32		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
Tech: DVM % Moisture:
Analyst: ARM Date Prep: 04.10.2020 12:00 Basis: Wet Weight
Seq Number: 3122730

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	04.10.2020 17:01	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	04.10.2020 17:01	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	04.10.2020 17:01	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	04.10.2020 17:01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	77	%	70-130	04.10.2020 17:01	
o-Terphenyl	84-15-1	80	%	70-130	04.10.2020 17:01	

Certificate of Analytical Results 658394

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**EH2 @ Surface**	Matrix:	Soil	Date Received:	04.09.2020 11:15
Lab Sample Id:	658394-007	Date Collected:	04.07.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	04.14.2020 09:30	Basis:	Wet Weight
Seq Number:	3122998				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	04.14.2020 18:55	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	04.14.2020 18:55	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	04.14.2020 18:55	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	04.14.2020 18:55	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	04.14.2020 18:55	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	04.14.2020 18:55	U	1
Total BTEX		<0.00198	0.00198	mg/kg	04.14.2020 18:55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	111	%	70-130	04.14.2020 18:55	
4-Bromofluorobenzene	460-00-4	123	%	70-130	04.14.2020 18:55	

Certificate of Analytical Results 658394

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**EH2 @ 1'**	Matrix:	Soil	Date Received:	04.09.2020 11:15
Lab Sample Id:	658394-008	Date Collected:	04.07.2020 00:00	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	04.10.2020 08:05	Basis:	Wet Weight
Seq Number:	3122712				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**247**	25.0	mg/kg	04.10.2020 10:50		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	04.10.2020 12:00	Basis:	Wet Weight
Seq Number:	3122730				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.10.2020 17:20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.10.2020 17:20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.10.2020 17:20	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.10.2020 17:20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	79	%	70-130	04.10.2020 17:20	
o-Terphenyl	84-15-1	83	%	70-130	04.10.2020 17:20	

Certificate of Analytical Results 658394

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**EH2 @ 1'**	Matrix:	Soil	Date Received:	04.09.2020 11:15
Lab Sample Id:	658394-008	Date Collected:	04.07.2020 00:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	04.14.2020 09:30	Basis:	Wet Weight
Seq Number:	3122998				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	04.14.2020 19:16	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	04.14.2020 19:16	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	04.14.2020 19:16	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	04.14.2020 19:16	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	04.14.2020 19:16	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	04.14.2020 19:16	U	1
Total BTEX		<0.00201	0.00201	mg/kg	04.14.2020 19:16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	110	%	70-130	04.14.2020 19:16	
4-Bromofluorobenzene	460-00-4	125	%	70-130	04.14.2020 19:16	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id: **SH1 @ Surface** Matrix: Soil Date Received:04.09.2020 11:15

Lab Sample Id: 658394-009 Date Collected: 04.07.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 04.10.2020 08:05 Basis: Wet Weight

Seq Number: 3122712

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**100**	24.9	mg/kg	04.10.2020 10:56		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 04.10.2020 12:00 Basis: Wet Weight

Seq Number: 3122730

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.10.2020 17:39	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.10.2020 17:39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.10.2020 17:39	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.10.2020 17:39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	75	%	70-130	04.10.2020 17:39	
o-Terphenyl	84-15-1	77	%	70-130	04.10.2020 17:39	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**SH1 @ Surface**	Matrix:	Soil	Date Received:	04.09.2020 11:15
Lab Sample Id:	658394-009	Date Collected:	04.07.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	04.14.2020 09:30	Basis:	Wet Weight
Seq Number:	3122998				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.14.2020 19:36	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	04.14.2020 19:36	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.14.2020 19:36	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	04.14.2020 19:36	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.14.2020 19:36	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.14.2020 19:36	U	1
Total BTEX		<0.00200	0.00200	mg/kg	04.14.2020 19:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	128	%	70-130	04.14.2020 19:36	
1,4-Difluorobenzene	540-36-3	110	%	70-130	04.14.2020 19:36	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**SH1 @ 1'**	Matrix:	Soil	Date Received:	04.09.2020 11:15
Lab Sample Id:	658394-010	Date Collected:	04.07.2020 00:00	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	04.10.2020 08:05	Basis:	Wet Weight
Seq Number:	3122712				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**81.8**	25.0	mg/kg	04.10.2020 11:01		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	04.10.2020 12:00	Basis:	Wet Weight
Seq Number:	3122730				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	04.10.2020 17:57	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	04.10.2020 17:57	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	04.10.2020 17:57	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	04.10.2020 17:57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	80	%	70-130	04.10.2020 17:57	
o-Terphenyl	84-15-1	83	%	70-130	04.10.2020 17:57	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**SH1 @ 1'**	Matrix:	Soil	Date Received:	04.09.2020 11:15
Lab Sample Id:	658394-010	Date Collected:	04.07.2020 00:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	04.14.2020 09:30	Basis:	Wet Weight
Seq Number:	3122998				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.14.2020 19:56	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	04.14.2020 19:56	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.14.2020 19:56	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	04.14.2020 19:56	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.14.2020 19:56	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.14.2020 19:56	U	1
Total BTEX		<0.00200	0.00200	mg/kg	04.14.2020 19:56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	121	%	70-130	04.14.2020 19:56	
1,4-Difluorobenzene	540-36-3	110	%	70-130	04.14.2020 19:56	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id: **SH2 @ Surface** Matrix: Soil Date Received:04.09.2020 11:15
Lab Sample Id: 658394-011 Date Collected: 04.07.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P
Tech: CHE % Moisture:
Analyst: CHE Date Prep: 04.10.2020 08:05 Basis: Wet Weight
Seq Number: 3122712

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.04	5.04	mg/kg	04.10.2020 13:33	U	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
Tech: DVM % Moisture:
Analyst: ARM Date Prep: 04.10.2020 12:00 Basis: Wet Weight
Seq Number: 3122730

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.10.2020 18:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.10.2020 18:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.10.2020 18:34	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.10.2020 18:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	80	%	70-130	04.10.2020 18:34	
o-Terphenyl	84-15-1	83	%	70-130	04.10.2020 18:34	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**SH2 @ Surface**	Matrix:	Soil	Date Received:	04.09.2020 11:15
Lab Sample Id:	658394-011	Date Collected:	04.07.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	04.14.2020 09:30	Basis:	Wet Weight
Seq Number:	3122998				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	04.14.2020 20:17	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	04.14.2020 20:17	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	04.14.2020 20:17	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	04.14.2020 20:17	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	04.14.2020 20:17	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	04.14.2020 20:17	U	1
Total BTEX		<0.00202	0.00202	mg/kg	04.14.2020 20:17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	110	%	70-130	04.14.2020 20:17	
4-Bromofluorobenzene	460-00-4	123	%	70-130	04.14.2020 20:17	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**SH2 @ 1'**	Matrix:	Soil	Date Received:	04.09.2020 11:15
Lab Sample Id:	658394-012	Date Collected:	04.07.2020 00:00	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	04.10.2020 08:05	Basis:	Wet Weight
Seq Number:	3122712				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.03	5.03	mg/kg	04.10.2020 13:40	U	1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	04.10.2020 12:00	Basis:	Wet Weight
Seq Number:	3122730				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.10.2020 18:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.10.2020 18:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.10.2020 18:52	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.10.2020 18:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	79	%	70-130	04.10.2020 18:52	
o-Terphenyl	84-15-1	81	%	70-130	04.10.2020 18:52	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**SH2 @ 1'**	Matrix:	Soil	Date Received:	04.09.2020 11:15
Lab Sample Id:	658394-012	Date Collected:	04.07.2020 00:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	04.14.2020 09:30	Basis:	Wet Weight
Seq Number:	3122998				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	04.14.2020 20:37	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	04.14.2020 20:37	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	04.14.2020 20:37	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	04.14.2020 20:37	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	04.14.2020 20:37	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	04.14.2020 20:37	U	1
Total BTEX		<0.00199	0.00199	mg/kg	04.14.2020 20:37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	119	%	70-130	04.14.2020 20:37	
1,4-Difluorobenzene	540-36-3	108	%	70-130	04.14.2020 20:37	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id: **SP1 @ Surface** Matrix: Soil Date Received:04.09.2020 11:15

Lab Sample Id: 658394-013 Date Collected: 04.07.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 04.10.2020 08:05 Basis: Wet Weight

Seq Number: 3122712

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**24700**	252	mg/kg	04.10.2020 11:17		50

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 04.10.2020 12:00 Basis: Wet Weight

Seq Number: 3122730

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	04.10.2020 19:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	**123**	49.9	mg/kg	04.10.2020 19:11		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	04.10.2020 19:11	U	1
Total TPH	PHC635	**123**	49.9	mg/kg	04.10.2020 19:11		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	78	%	70-130	04.10.2020 19:11	
o-Terphenyl	84-15-1	82	%	70-130	04.10.2020 19:11	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**SP1 @ Surface**	Matrix:	Soil	Date Received:	04.09.2020 11:15
Lab Sample Id:	658394-013	Date Collected:	04.07.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	04.14.2020 16:00	Basis:	Wet Weight
Seq Number:	3123032				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.15.2020 06:10	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	04.15.2020 06:10	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.15.2020 06:10	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	04.15.2020 06:10	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.15.2020 06:10	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.15.2020 06:10	U	1
Total BTEX		<0.00200	0.00200	mg/kg	04.15.2020 06:10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	121	%	70-130	04.15.2020 06:10	
1,4-Difluorobenzene	540-36-3	110	%	70-130	04.15.2020 06:10	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**SP1 @ 3'-R**	Matrix:	Soil	Date Received:	04.09.2020 11:15
Lab Sample Id:	658394-014	Date Collected:	04.07.2020 00:00	Sample Depth:	3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	04.10.2020 08:05	Basis:	Wet Weight
Seq Number:	3122712				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3440**	50.1	mg/kg	04.10.2020 11:22		10

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	04.10.2020 12:00	Basis:	Wet Weight
Seq Number:	3122730				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	04.10.2020 19:29	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	04.10.2020 19:29	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	04.10.2020 19:29	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	04.10.2020 19:29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	80	%	70-130	04.10.2020 19:29	
o-Terphenyl	84-15-1	83	%	70-130	04.10.2020 19:29	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**SP1 @ 3'-R**	Matrix:	Soil	Date Received:	04.09.2020 11:15
Lab Sample Id:	658394-014	Date Collected:	04.07.2020 00:00	Sample Depth:	3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	04.14.2020 16:00	Basis:	Wet Weight
Seq Number:	3123032				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	04.15.2020 06:31	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	04.15.2020 06:31	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	04.15.2020 06:31	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	04.15.2020 06:31	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	04.15.2020 06:31	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	04.15.2020 06:31	U	1
Total BTEX		<0.00202	0.00202	mg/kg	04.15.2020 06:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	109	%	70-130	04.15.2020 06:31	
4-Bromofluorobenzene	460-00-4	129	%	70-130	04.15.2020 06:31	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id: **SP2 @ Surface** Matrix: Soil Date Received:04.09.2020 11:15
Lab Sample Id: 658394-015 Date Collected: 04.07.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P
Tech: CHE % Moisture:
Analyst: CHE Date Prep: 04.10.2020 14:50 Basis: Wet Weight
Seq Number: 3122714

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**28500**	251	mg/kg	04.10.2020 15:32		50

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
Tech: DVM % Moisture:
Analyst: ARM Date Prep: 04.10.2020 12:00 Basis: Wet Weight
Seq Number: 3122730

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.10.2020 19:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	**115**	50.0	mg/kg	04.10.2020 19:47		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.10.2020 19:47	U	1
Total TPH	PHC635	**115**	50.0	mg/kg	04.10.2020 19:47		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	80	%	70-130	04.10.2020 19:47	
o-Terphenyl	84-15-1	87	%	70-130	04.10.2020 19:47	

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Hopi Federal #2

Sample Id:	**SP2 @ Surface**	Matrix:	Soil	Date Received:	04.09.2020 11:15
Lab Sample Id:	658394-015	Date Collected:	04.07.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	04.14.2020 16:00	Basis:	Wet Weight
Seq Number:	3123032				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.15.2020 06:51	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	04.15.2020 06:51	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.15.2020 06:51	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	04.15.2020 06:51	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.15.2020 06:51	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.15.2020 06:51	U	1
Total BTEX		<0.00200	0.00200	mg/kg	04.15.2020 06:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	118	%	70-130	04.15.2020 06:51	
1,4-Difluorobenzene	540-36-3	109	%	70-130	04.15.2020 06:51	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**SP2 @ 4'-R**	Matrix:	Soil	Date Received:	04.09.2020 11:15
Lab Sample Id:	658394-016	Date Collected:	04.07.2020 00:00	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	04.10.2020 14:50	Basis:	Wet Weight
Seq Number:	3122714				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**435**	50.3	mg/kg	04.10.2020 15:38		10

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	04.10.2020 12:00	Basis:	Wet Weight
Seq Number:	3122730				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.10.2020 20:05	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.10.2020 20:05	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.10.2020 20:05	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.10.2020 20:05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	81	%	70-130	04.10.2020 20:05	
o-Terphenyl	84-15-1	84	%	70-130	04.10.2020 20:05	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**SP2 @ 4'-R**	Matrix:	Soil	Date Received:	04.09.2020 11:15
Lab Sample Id:	658394-016	Date Collected:	04.07.2020 00:00	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	04.14.2020 16:00	Basis:	Wet Weight
Seq Number:	3123032				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	04.15.2020 07:12	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	04.15.2020 07:12	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	04.15.2020 07:12	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	04.15.2020 07:12	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	04.15.2020 07:12	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	04.15.2020 07:12	U	1
Total BTEX		<0.00199	0.00199	mg/kg	04.15.2020 07:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	113	%	70-130	04.15.2020 07:12	
4-Bromofluorobenzene	460-00-4	124	%	70-130	04.15.2020 07:12	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id: **SP3 @ Surface** Matrix: Soil Date Received:04.09.2020 11:15
Lab Sample Id: 658394-017 Date Collected: 04.07.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P
Tech: CHE % Moisture:
Analyst: CHE Date Prep: 04.10.2020 14:50 Basis: Wet Weight
Seq Number: 3122714

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**16600**	248	mg/kg	04.10.2020 15:43		50

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
Tech: DVM % Moisture:
Analyst: ARM Date Prep: 04.10.2020 12:00 Basis: Wet Weight
Seq Number: 3122730

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	04.10.2020 20:24	U	1
Diesel Range Organics (DRO)	C10C28DRO	**96.3**	49.9	mg/kg	04.10.2020 20:24		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	04.10.2020 20:24	U	1
Total TPH	PHC635	**96.3**	49.9	mg/kg	04.10.2020 20:24		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	80	%	70-130	04.10.2020 20:24	
o-Terphenyl	84-15-1	84	%	70-130	04.10.2020 20:24	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**SP3 @ Surface**	Matrix:	Soil	Date Received:	04.09.2020 11:15
Lab Sample Id:	658394-017	Date Collected:	04.07.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	04.14.2020 16:00	Basis:	Wet Weight
Seq Number:	3123032				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.15.2020 07:32	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	04.15.2020 07:32	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.15.2020 07:32	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	04.15.2020 07:32	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.15.2020 07:32	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.15.2020 07:32	U	1
Total BTEX		<0.00200	0.00200	mg/kg	04.15.2020 07:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	118	%	70-130	04.15.2020 07:32	
1,4-Difluorobenzene	540-36-3	110	%	70-130	04.15.2020 07:32	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**SP3 @ 4'R**	Matrix:	Soil	Date Received:	04.09.2020 11:15
Lab Sample Id:	658394-018	Date Collected:	04.07.2020 00:00	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	04.10.2020 14:50	Basis:	Wet Weight
Seq Number:	3122714				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2210**	49.7	mg/kg	04.10.2020 15:48		10

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	04.10.2020 12:00	Basis:	Wet Weight
Seq Number:	3122730				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	04.10.2020 20:42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	04.10.2020 20:42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	04.10.2020 20:42	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	04.10.2020 20:42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	79	%	70-130	04.10.2020 20:42	
o-Terphenyl	84-15-1	82	%	70-130	04.10.2020 20:42	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**SP3 @ 4'R**	Matrix:	Soil	Date Received:	04.09.2020 11:15
Lab Sample Id:	658394-018	Date Collected:	04.07.2020 00:00	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	04.15.2020 10:00	Basis:	Wet Weight
Seq Number:	3123167				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	04.15.2020 13:53	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	04.15.2020 13:53	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	04.15.2020 13:53	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	04.15.2020 13:53	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	04.15.2020 13:53	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	04.15.2020 13:53	U	1
Total BTEX		<0.00201	0.00201	mg/kg	04.15.2020 13:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	108	%	70-130	04.15.2020 13:53	
4-Bromofluorobenzene	460-00-4	123	%	70-130	04.15.2020 13:53	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id: **SP4 @ Surface** Matrix: Soil Date Received:04.09.2020 11:15

Lab Sample Id: 658394-019 Date Collected: 04.07.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 04.10.2020 14:50 Basis: Wet Weight

Seq Number: 3122714

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**17400**	251	mg/kg	04.10.2020 16:04		50

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 04.10.2020 12:00 Basis: Wet Weight

Seq Number: 3122730

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.10.2020 21:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	**119**	50.0	mg/kg	04.10.2020 21:00		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.10.2020 21:00	U	1
Total TPH	PHC635	**119**	50.0	mg/kg	04.10.2020 21:00		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	79	%	70-130	04.10.2020 21:00	
o-Terphenyl	84-15-1	84	%	70-130	04.10.2020 21:00	

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Hopi Federal #2

Sample Id:	**SP4 @ Surface**	Matrix:	Soil	Date Received:	04.09.2020 11:15
Lab Sample Id:	658394-019	Date Collected:	04.07.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	04.11.2020 11:45	Basis:	Wet Weight
Seq Number:	3122857				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.13.2020 03:27	U	1
Toluene	108-88-3	**0.00297**	0.00200	mg/kg	04.13.2020 03:27		1
Ethylbenzene	100-41-4	**0.00237**	0.00200	mg/kg	04.13.2020 03:27		1
m,p-Xylenes	179601-23-1	**0.00658**	0.00401	mg/kg	04.13.2020 03:27		1
o-Xylene	95-47-6	**0.00442**	0.00200	mg/kg	04.13.2020 03:27		1
Total Xylenes	1330-20-7	**0.0110**	0.00200	mg/kg	04.13.2020 03:27		1
Total BTEX		**0.0163**	0.00200	mg/kg	04.13.2020 03:27		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	108	%	70-130	04.13.2020 03:27	
4-Bromofluorobenzene	460-00-4	125	%	70-130	04.13.2020 03:27	

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Hopi Federal #2

Sample Id:	**SP4 @ 3'-R**	Matrix:	Soil	Date Received:	04.09.2020 11:15
Lab Sample Id:	658394-020	Date Collected:	04.07.2020 00:00	Sample Depth:	3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	04.10.2020 14:50	Basis:	Wet Weight
Seq Number:	3122714				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**6250**	49.9	mg/kg	04.10.2020 16:09		10

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	04.10.2020 12:00	Basis:	Wet Weight
Seq Number:	3122730				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.10.2020 21:18	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.10.2020 21:18	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.10.2020 21:18	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.10.2020 21:18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	80	%	70-130	04.10.2020 21:18	
o-Terphenyl	84-15-1	84	%	70-130	04.10.2020 21:18	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**SP4 @ 3'-R**	Matrix:	Soil	Date Received:	04.09.2020 11:15
Lab Sample Id:	658394-020	Date Collected:	04.07.2020 00:00	Sample Depth:	3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	04.11.2020 11:45	Basis:	Wet Weight
Seq Number:	3122857				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.13.2020 03:48	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	04.13.2020 03:48	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.13.2020 03:48	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	04.13.2020 03:48	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.13.2020 03:48	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.13.2020 03:48	U	1
Total BTEX		<0.00200	0.00200	mg/kg	04.13.2020 03:48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	113	%	70-130	04.13.2020 03:48	
4-Bromofluorobenzene	460-00-4	114	%	70-130	04.13.2020 03:48	

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Hopi Federal #2

Sample Id: **WH1 @ Surface** Matrix: Soil Date Received:04.09.2020 11:15

Lab Sample Id: 658394-021 Date Collected: 04.07.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: SPC Date Prep: 04.13.2020 10:35 Basis: Wet Weight

Seq Number: 3122828

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**9.14**	5.03	mg/kg	04.13.2020 12:18	X	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 04.09.2020 14:00 Basis: Wet Weight

Seq Number: 3122627

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	04.09.2020 23:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	04.09.2020 23:00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	04.09.2020 23:00	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	04.09.2020 23:00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	73	%	70-130	04.09.2020 23:00	
o-Terphenyl	84-15-1	75	%	70-130	04.09.2020 23:00	

Certificate of Analytical Results 658394

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**WH1 @ Surface**	Matrix:	Soil	Date Received:	04.09.2020 11:15
Lab Sample Id:	658394-021	Date Collected:	04.07.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	04.11.2020 11:45	Basis:	Wet Weight
Seq Number:	3122857				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.13.2020 04:08	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	04.13.2020 04:08	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.13.2020 04:08	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	04.13.2020 04:08	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.13.2020 04:08	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.13.2020 04:08	U	1
Total BTEX		<0.00200	0.00200	mg/kg	04.13.2020 04:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	108	%	70-130	04.13.2020 04:08	
4-Bromofluorobenzene	460-00-4	130	%	70-130	04.13.2020 04:08	

Certificate of Analytical Results 658394

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**WH1 @ 1'**	Matrix:	Soil	Date Received:	04.09.2020 11:15
Lab Sample Id:	658394-022	Date Collected:	04.07.2020 00:00	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	04.10.2020 14:50	Basis:	Wet Weight
Seq Number:	3122714				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**33.2**	25.1	mg/kg	04.10.2020 16:20		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	04.09.2020 14:00	Basis:	Wet Weight
Seq Number:	3122627				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	04.09.2020 23:18	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	04.09.2020 23:18	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	04.09.2020 23:18	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	04.09.2020 23:18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-130	04.09.2020 23:18	
o-Terphenyl	84-15-1	88	%	70-130	04.09.2020 23:18	

Certificate of Analytical Results 658394

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**WH1 @ 1'**	Matrix:	Soil	Date Received:	04.09.2020 11:15
Lab Sample Id:	658394-022	Date Collected:	04.07.2020 00:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	04.11.2020 11:45	Basis:	Wet Weight
Seq Number:	3122857				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	04.13.2020 04:28	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	04.13.2020 04:28	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	04.13.2020 04:28	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	04.13.2020 04:28	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	04.13.2020 04:28	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	04.13.2020 04:28	U	1
Total BTEX		<0.00199	0.00199	mg/kg	04.13.2020 04:28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	127	%	70-130	04.13.2020 04:28	
1,4-Difluorobenzene	540-36-3	109	%	70-130	04.13.2020 04:28	

Certificate of Analytical Results 658394

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id: **WH2 @ Surface** Matrix: Soil Date Received:04.09.2020 11:15
Lab Sample Id: 658394-023 Date Collected: 04.07.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P
Tech: CHE % Moisture:
Analyst: CHE Date Prep: 04.10.2020 14:50 Basis: Wet Weight
Seq Number: 3122714

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.04	5.04	mg/kg	04.10.2020 15:17	U	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
Tech: DVM % Moisture:
Analyst: ARM Date Prep: 04.09.2020 14:00 Basis: Wet Weight
Seq Number: 3122627

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	04.09.2020 23:36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	04.09.2020 23:36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	04.09.2020 23:36	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	04.09.2020 23:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	82	%	70-130	04.09.2020 23:36	
o-Terphenyl	84-15-1	84	%	70-130	04.09.2020 23:36	

Certificate of Analytical Results 658394

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**WH2 @ Surface**	Matrix:	Soil	Date Received:	04.09.2020 11:15
Lab Sample Id:	658394-023	Date Collected:	04.07.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	04.11.2020 11:45	Basis:	Wet Weight
Seq Number:	3122857				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	04.13.2020 04:49	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	04.13.2020 04:49	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	04.13.2020 04:49	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	04.13.2020 04:49	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	04.13.2020 04:49	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	04.13.2020 04:49	U	1
Total BTEX		<0.00201	0.00201	mg/kg	04.13.2020 04:49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	125	%	70-130	04.13.2020 04:49	
1,4-Difluorobenzene	540-36-3	107	%	70-130	04.13.2020 04:49	

Certificate of Analytical Results 658394

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**WH2 @ 1'**	Matrix:	Soil	Date Received:	04.09.2020 11:15
Lab Sample Id:	658394-024	Date Collected:	04.07.2020 00:00	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	04.10.2020 14:50	Basis:	Wet Weight
Seq Number:	3122714				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.03	5.03	mg/kg	04.10.2020 16:30	U	1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	04.09.2020 14:00	Basis:	Wet Weight
Seq Number:	3122627				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	04.09.2020 23:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	04.09.2020 23:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	04.09.2020 23:54	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	04.09.2020 23:54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	71	%	70-130	04.09.2020 23:54	
o-Terphenyl	84-15-1	72	%	70-130	04.09.2020 23:54	

Certificate of Analytical Results 658394

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**WH2 @ 1'**	Matrix:	Soil	Date Received:	04.09.2020 11:15
Lab Sample Id:	658394-024	Date Collected:	04.07.2020 00:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	04.11.2020 11:45	Basis:	Wet Weight
Seq Number:	3122857				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	04.13.2020 05:09	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	04.13.2020 05:09	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	04.13.2020 05:09	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	04.13.2020 05:09	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	04.13.2020 05:09	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	04.13.2020 05:09	U	1
Total BTEX		<0.00199	0.00199	mg/kg	04.13.2020 05:09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	125	%	70-130	04.13.2020 05:09	
1,4-Difluorobenzene	540-36-3	110	%	70-130	04.13.2020 05:09	

Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

QC Summary 658394

Etech Environmental & Safety Solution, Inc

Hopi Federal #2

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3122712 — Matrix: Solid — Date Prep: 04.10.2020
MB Sample Id: 7701012-1-BLK — LCS Sample Id: 7701012-1-BKS — LCSD Sample Id: 7701012-1-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	254	102	253	101	90-110	0	20	mg/kg	04.10.2020 08:49	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3122714 — Matrix: Solid — Date Prep: 04.10.2020
MB Sample Id: 7701058-1-BLK — LCS Sample Id: 7701058-1-BKS — LCSD Sample Id: 7701058-1-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	255	102	254	102	90-110	0	20	mg/kg	04.10.2020 15:06	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3122828 — Matrix: Solid — Date Prep: 04.13.2020
MB Sample Id: 7701132-1-BLK — LCS Sample Id: 7701132-1-BKS — LCSD Sample Id: 7701132-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	265	106	265	106	90-110	0	20	mg/kg	04.13.2020 10:56	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3122712 — Matrix: Soil — Date Prep: 04.10.2020
Parent Sample Id: 658394-006 — MS Sample Id: 658394-006 S — MSD Sample Id: 658394-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	9.26	250	263	101	263	101	90-110	0	20	mg/kg	04.10.2020 10:19	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3122712 — Matrix: Soil — Date Prep: 04.10.2020
Parent Sample Id: 658396-003 — MS Sample Id: 658396-003 S — MSD Sample Id: 658396-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	854	249	1050	79	1080	91	90-110	3	20	mg/kg	04.10.2020 09:05	X

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3122714 — Matrix: Soil — Date Prep: 04.10.2020
Parent Sample Id: 658394-023 — MS Sample Id: 658394-023 S — MSD Sample Id: 658394-023 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.04	252	258	102	263	104	90-110	2	20	mg/kg	04.10.2020 15:22	

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 658394

Etech Environmental & Safety Solution, Inc

Hopi Federal #2

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3122714 — Matrix: Soil — Date Prep: 04.10.2020
Parent Sample Id: 658394-024 — MS Sample Id: 658394-024 S — MSD Sample Id: 658394-024 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	254	101	256	102	90-110	1	20	mg/kg	04.10.2020 16:36	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3122828 — Matrix: Soil — Date Prep: 04.13.2020
Parent Sample Id: 658394-021 — MS Sample Id: 658394-021 S — MSD Sample Id: 658394-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<25.2	1260	1580	125	1580	125	90-110	0	20	mg/kg	04.13.2020 11:17	X

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3122828 — Matrix: Soil — Date Prep: 04.13.2020
Parent Sample Id: 658658-004 — MS Sample Id: 658658-004 S — MSD Sample Id: 658658-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<4.98	249	297	119	282	113	90-110	5	20	mg/kg	04.13.2020 13:15	X

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3122627 — Matrix: Solid — Date Prep: 04.09.2020
MB Sample Id: 7700962-1-BLK — LCS Sample Id: 7700962-1-BKS — LCSD Sample Id: 7700962-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	884	88	900	90	70-130	2	20	mg/kg	04.09.2020 17:21	
Diesel Range Organics (DRO)	<50.0	1000	968	97	984	98	70-130	2	20	mg/kg	04.09.2020 17:21	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	76		95		95		70-130	%	04.09.2020 17:21
o-Terphenyl	81		87		92		70-130	%	04.09.2020 17:21

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3122730 — Matrix: Solid — Date Prep: 04.10.2020
MB Sample Id: 7701090-1-BLK — LCS Sample Id: 7701090-1-BKS — LCSD Sample Id: 7701090-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	898	90	916	92	70-130	2	20	mg/kg	04.10.2020 13:57	
Diesel Range Organics (DRO)	<50.0	1000	995	100	998	100	70-130	0	20	mg/kg	04.10.2020 13:57	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	77		103		106		70-130	%	04.10.2020 13:57
o-Terphenyl	83		90		98		70-130	%	04.10.2020 13:57

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

QC Summary 658394

Etech Environmental & Safety Solution, Inc

Hopi Federal #2

Analytical Method: **TPH By SW8015 Mod** Prep Method: SW8015P
Seq Number: 3122627 Matrix: Solid Date Prep: 04.09.2020
MB Sample Id: 7700962-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	04.09.2020 17:02	

Analytical Method: **TPH By SW8015 Mod** Prep Method: SW8015P
Seq Number: 3122730 Matrix: Solid Date Prep: 04.10.2020
MB Sample Id: 7701090-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	04.10.2020 13:08	

Analytical Method: **TPH By SW8015 Mod** Prep Method: SW8015P
Seq Number: 3122627 Matrix: Soil Date Prep: 04.09.2020
Parent Sample Id: 658411-001 MS Sample Id: 658411-001 S MSD Sample Id: 658411-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	997	831	83	817	82	70-130	2	20	mg/kg	04.09.2020 18:15	
Diesel Range Organics (DRO)	<49.9	997	885	89	880	88	70-130	1	20	mg/kg	04.09.2020 18:15	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	95		91		70-130	%	04.09.2020 18:15
o-Terphenyl	91		85		70-130	%	04.09.2020 18:15

Analytical Method: **TPH By SW8015 Mod** Prep Method: SW8015P
Seq Number: 3122730 Matrix: Soil Date Prep: 04.10.2020
Parent Sample Id: 658394-001 MS Sample Id: 658394-001 S MSD Sample Id: 658394-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	998	833	83	827	83	70-130	1	20	mg/kg	04.10.2020 14:52	
Diesel Range Organics (DRO)	<49.9	998	883	88	881	88	70-130	0	20	mg/kg	04.10.2020 14:52	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	99		97		70-130	%	04.10.2020 14:52
o-Terphenyl	92		91		70-130	%	04.10.2020 14:52

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

QC Summary 658394

Etech Environmental & Safety Solution, Inc

Hopi Federal #2

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3122857 — Matrix: Solid — Date Prep: 04.11.2020
MB Sample Id: 7701183-1-BLK — LCS Sample Id: 7701183-1-BKS — LCSD Sample Id: 7701183-1-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	0.0885	89	0.0920	92	70-130	4	35	mg/kg	04.12.2020 19:17	
Toluene	<0.00200	0.100	0.0956	96	0.0939	94	70-130	2	35	mg/kg	04.12.2020 19:17	
Ethylbenzene	<0.00200	0.100	0.0938	94	0.0905	91	70-130	4	35	mg/kg	04.12.2020 19:17	
m,p-Xylenes	<0.00400	0.200	0.189	95	0.181	91	70-130	4	35	mg/kg	04.12.2020 19:17	
o-Xylene	<0.00200	0.100	0.0979	98	0.0934	93	70-130	5	35	mg/kg	04.12.2020 19:17	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	107		103		106		70-130	%	04.12.2020 19:17
4-Bromofluorobenzene	110		105		103		70-130	%	04.12.2020 19:17

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3122998 — Matrix: Solid — Date Prep: 04.14.2020
MB Sample Id: 7701255-1-BLK — LCS Sample Id: 7701255-1-BKS — LCSD Sample Id: 7701255-1-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	0.0964	96	0.0926	93	70-130	4	35	mg/kg	04.14.2020 10:12	
Toluene	<0.00200	0.100	0.109	109	0.107	107	70-130	2	35	mg/kg	04.14.2020 10:12	
Ethylbenzene	<0.00200	0.100	0.112	112	0.110	110	70-130	2	35	mg/kg	04.14.2020 10:12	
m,p-Xylenes	<0.00400	0.200	0.227	114	0.226	113	70-130	0	35	mg/kg	04.14.2020 10:12	
o-Xylene	<0.00200	0.100	0.113	113	0.113	113	70-130	0	35	mg/kg	04.14.2020 10:12	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		103		102		70-130	%	04.14.2020 10:12
4-Bromofluorobenzene	120		111		113		70-130	%	04.14.2020 10:12

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3123032 — Matrix: Solid — Date Prep: 04.14.2020
MB Sample Id: 7701290-1-BLK — LCS Sample Id: 7701290-1-BKS — LCSD Sample Id: 7701290-1-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	0.0961	96	0.0889	89	70-130	8	35	mg/kg	04.14.2020 21:39	
Toluene	<0.00200	0.100	0.109	109	0.0996	100	70-130	9	35	mg/kg	04.14.2020 21:39	
Ethylbenzene	<0.00200	0.100	0.110	110	0.0998	100	70-130	10	35	mg/kg	04.14.2020 21:39	
m,p-Xylenes	<0.00400	0.200	0.224	112	0.203	102	70-130	10	35	mg/kg	04.14.2020 21:39	
o-Xylene	<0.00200	0.100	0.114	114	0.103	103	70-130	10	35	mg/kg	04.14.2020 21:39	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	107		105		102		70-130	%	04.14.2020 21:39
4-Bromofluorobenzene	112		118		109		70-130	%	04.14.2020 21:39

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 658394

Etech Environmental & Safety Solution, Inc

Hopi Federal #2

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3123167 — Matrix: Solid — Date Prep: 04.15.2020
MB Sample Id: 7701370-1-BLK — LCS Sample Id: 7701370-1-BKS — LCSD Sample Id: 7701370-1-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	0.0872	87	0.0859	86	70-130	2	35	mg/kg	04.15.2020 09:48	
Toluene	<0.00200	0.100	0.105	105	0.102	102	70-130	3	35	mg/kg	04.15.2020 09:48	
Ethylbenzene	<0.00200	0.100	0.109	109	0.106	106	70-130	3	35	mg/kg	04.15.2020 09:48	
m,p-Xylenes	<0.00400	0.200	0.224	112	0.217	109	70-130	3	35	mg/kg	04.15.2020 09:48	
o-Xylene	<0.00200	0.100	0.112	112	0.108	108	70-130	4	35	mg/kg	04.15.2020 09:48	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		99		99		70-130	%	04.15.2020 09:48
4-Bromofluorobenzene	117		112		109		70-130	%	04.15.2020 09:48

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3122857 — Matrix: Soil — Date Prep: 04.11.2020
Parent Sample Id: 657958-001 — MS Sample Id: 657958-001 S — MSD Sample Id: 657958-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.0870	87	0.0895	90	70-130	3	35	mg/kg	04.12.2020 19:58	
Toluene	<0.00200	0.0998	0.0888	89	0.0969	97	70-130	9	35	mg/kg	04.12.2020 19:58	
Ethylbenzene	<0.00200	0.0998	0.0863	86	0.0961	96	70-130	11	35	mg/kg	04.12.2020 19:58	
m,p-Xylenes	<0.00399	0.200	0.174	87	0.197	98	70-130	12	35	mg/kg	04.12.2020 19:58	
o-Xylene	<0.00200	0.0998	0.0894	90	0.100	100	70-130	11	35	mg/kg	04.12.2020 19:58	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	105		104		70-130	%	04.12.2020 19:58
4-Bromofluorobenzene	104		112		70-130	%	04.12.2020 19:58

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3122998 — Matrix: Soil — Date Prep: 04.14.2020
Parent Sample Id: 658394-001 — MS Sample Id: 658394-001 S — MSD Sample Id: 658394-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00198	0.0992	0.0677	68	0.0860	86	70-130	24	35	mg/kg	04.14.2020 10:53	X
Toluene	<0.00198	0.0992	0.0774	78	0.0903	90	70-130	15	35	mg/kg	04.14.2020 10:53	
Ethylbenzene	<0.00198	0.0992	0.0782	79	0.0869	87	70-130	11	35	mg/kg	04.14.2020 10:53	
m,p-Xylenes	<0.00397	0.198	0.163	82	0.178	89	70-130	9	35	mg/kg	04.14.2020 10:53	
o-Xylene	<0.00198	0.0992	0.0844	85	0.0929	93	70-130	10	35	mg/kg	04.14.2020 10:53	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		104		70-130	%	04.14.2020 10:53
4-Bromofluorobenzene	115		117		70-130	%	04.14.2020 10:53

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

QC Summary 658394

Etech Environmental & Safety Solution, Inc

Hopi Federal #2

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B
Seq Number: 3123032 Matrix: Soil Date Prep: 04.14.2020
Parent Sample Id: 658719-001 MS Sample Id: 658719-001 S MSD Sample Id: 658719-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.0750	75	0.0823	82	70-130	9	35	mg/kg	04.14.2020 22:20	
Toluene	<0.00200	0.0998	0.0791	79	0.0850	85	70-130	7	35	mg/kg	04.14.2020 22:20	
Ethylbenzene	<0.00200	0.0998	0.0717	72	0.0785	79	70-130	9	35	mg/kg	04.14.2020 22:20	
m,p-Xylenes	<0.00399	0.200	0.146	73	0.159	80	70-130	9	35	mg/kg	04.14.2020 22:20	
o-Xylene	<0.00200	0.0998	0.0736	74	0.0791	79	70-130	7	35	mg/kg	04.14.2020 22:20	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		108		70-130	%	04.14.2020 22:20
4-Bromofluorobenzene	106		106		70-130	%	04.14.2020 22:20

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B
Seq Number: 3123167 Matrix: Soil Date Prep: 04.15.2020
Parent Sample Id: 658398-003 MS Sample Id: 658398-003 S MSD Sample Id: 658398-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0994	0.00567	6	0.00972	10	70-130	53	35	mg/kg	04.15.2020 10:28	XF
Toluene	<0.00199	0.0994	0.00660	7	0.0127	13	70-130	63	35	mg/kg	04.15.2020 10:28	XF
Ethylbenzene	<0.00199	0.0994	0.00701	7	0.0135	14	70-130	63	35	mg/kg	04.15.2020 10:28	XF
m,p-Xylenes	<0.00398	0.199	0.0155	8	0.0316	16	70-130	68	35	mg/kg	04.15.2020 10:28	XF
o-Xylene	<0.00199	0.0994	0.00887	9	0.0153	15	70-130	53	35	mg/kg	04.15.2020 10:28	XF

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	105		108		70-130	%	04.15.2020 10:28
4-Bromofluorobenzene	123		125		70-130	%	04.15.2020 10:28

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: 1058344

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Project Manager:	Joel Lowry	Bill to: (if different)	
Company Name:	Etech Environmental	Company Name:	Endeavor
Address:	3100 Plains Hwy	Address:	
City, State ZIP:	Lovington, NM	City, State ZIP:	
Phone:	432-466-4450	Email:	joel@etechenv.com, lance@etechenv.com

Work Order Comments

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

Project Name:	Hopi Federal #2	Turn Around	
Project Number:	12239	Routine:	☑
Project Location	Eddy Co, NM	Rush:	☐
Sampler's Name:	Miguel Ramirez	Due Date:	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	1.4 / 1.3	Thermometer ID	89
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.3
Sample Custody Seals:	Yes No (N/A)	Total Containers:	

ANALYSIS REQUEST

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	TPH	BTEX	Chloride	Sample Comments
NH1@surface	Soil	4.7.20		surface	Ice	X	X	X	
NH1@1'	Soil	4.7.20		1'	Ice	X	X	X	
NH2@surface	Soil	4.7.20		surface	Ice	X	X	X	
NH2@1'	Soil	4.7.20		1'	Ice	X	X	X	
EH1@surface	Soil	4.7.20		surface	Ice	X	X	X	
EH1@1'	Soil	4.7.20		1'	Ice	X	X	X	
EH2@surface	Soil	4.7.20		surface	Ice	X	X	X	
EH2@1'	Soil	4.7.20		1'	Ice	X	X	X	
SH1@surface	Soil	4.7.20		surface	Ice	X	X	X	
SH1@1'	Soil	4.7.20		1'	Ice	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

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		NR	4.30.47	2 NR		4/9
3				4		1115
5				6		

Revised Date101419 Rev. 2019.1

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: 580394

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Project Manager:	Joel Lowry	Bill to: (if different)	
Company Name:	Etech Environmental	Company Name:	Endeavor
Address:	3100 Plains Hwy	Address:	
City, State ZIP:	Lovington, NM	City, State ZIP:	
Phone:	432-466-4450	Email:	joel@etechenv.com, lance@etechenv.com

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:	Hopi Federal #2	Turn Around	
Project Number:	12284	Routine:	☑
Project Location	Eddy Co, NM	Rush:	☐
Sampler's Name:	Miguel Ramirez	Due Date:	
PO #:			

SAMPLE RECEIPT				
Temperature (°C):	1.6/1.3	Temp Blank:	Yes (No)	Wet Ice: (Yes) No
Received Intact:	(Yes) No	Thermometer ID		
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:		
Sample Custody Seals:	Yes No (N/A)	Total Containers:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	TPH	BTEX	Chlorides
SH2@surface	Soil	4.7.20		Surface	Ice	X	X	X
SH2@1'	Soil	4.7.20		1'	Ice	X	X	X
SP1@surface	Soil	4.7.20		Surface	Ice	X	X	X
SP1@3'-R	Soil	4.7.20		3'	Ice	X	X	X
SP2@surface	Soil	4.7.20		Surface	Ice	X	X	X
SP2@4'-R	Soil	4.7.20		4'	Ice	X	X	X
SP3@surface	Soil	4.7.20		Surface	Ice	X	X	X
SP3@4'-R	Soil	4.7.20		4'	Ice	X	X	X
SP4@surface	Soil	4.7.20		Surface	Ice	X	X	X
SP4@3'-R	Soil	4.7.20		3'	Ice	X	X	X

ANALYSIS REQUEST

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 Comments

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

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		NVR	4:39 4-7	2 NVR		4/9
3				4		
5				6		1115

Revised Date101419 Rev. 2019.1

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: 1052394

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Project Manager:	Joel Lowry	Bill to: (if different)	
Company Name:	Etech Environmental	Company Name:	Endeavor
Address:	3100 Plains Hwy	Address:	
City, State ZIP:	Lovington, NM	City, State ZIP:	
Phone:	432-466-4450	Email:	joel@etechenv.com, lance@etechenv.com

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:	Hopi Federal #2	Turn Around	
Project Number:	12289	Routine:	☑
Project Location	Eddy Co, NM	Rush:	☐
Sampler's Name:	Miguel Ramirez	Due Date:	
PO #:			

SAMPLE RECEIPT			
Temperature (°C):	1.6/1.3	Temp Blank: Yes No	Wet Ice: Yes No
Received Intact:	Yes No	Thermometer ID	89
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.3
Sample Custody Seals:	Yes No N/A	Total Containers:	

ANALYSIS REQUEST

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	TPH	BTEX	Chlorides	Sample Comments
WH1@surface	Soil	4.7.20		surface	Ice	X	X	X	
WH1@1'	Soil	4.7.20		1'	Ice	X	X	X	
WH2@surface	Soil	4.7.20		surface	Ice	X	X	X	
WH2@1'	Soil	4.7.20		1'	Ice	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

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			4:39 4/7	2		4/9
3				4		
5				6		1115

Revised Date 101419 Rev. 2019.1

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 04.09.2020 11.15.00 AM

Work Order #: 658394

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

Temperature Measuring device used : R9

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	1.3
#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: 04.09.2020

Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 04.09.2020

Jessica Kramer

eurofins | Environment Testing Xenco

Certificate of Analysis Summary 667483

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Hopi Federal #2

Project Id: 12289
Contact: PM
Project Location:

Date Received in Lab: Fri 07.17.2020 10:57
Report Date: 07.22.2020 14:44
Project Manager: Jessica Kramer

Analysis Requested											
	Lab Id:	667483-001		667483-002		667483-003					
	Field Id:	SP 1 @ 5'		SP 3 @ 3'		SP 4 @ 5'					
	Depth:	5- ft		3- ft		5- ft					
	Matrix:	SOIL		SOIL		SOIL					
	Sampled:	07.16.2020 00:00		07.16.2020 00:00		07.16.2020 00:00					
Chloride by EPA 300	***Extracted:***	07.20.2020 11:05		07.20.2020 11:05		07.20.2020 11:05					
	Analyzed:	07.21.2020 13:51		07.21.2020 13:56		07.21.2020 14:01					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		1140	50.0	336	49.9	432	49.9				

BRL - Below Reporting Limit

Jessica Kramer

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

eurofins | Environment Testing Xenco

Analytical Report 667483

for

Etech Environmental & Safety Solution, Inc

Project Manager: PM

Hopi Federal #2

12289

07.22.2020

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-36), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-25), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-7)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

eurofins | Environment Testing Xenco

07.22.2020

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

Reference: Eurofins Xenco, LLC Report No(s): **667483**
Hopi Federal #2
Project Address:

PM :

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 667483. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 667483 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

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

eurofins | Environment Testing Xenco

Sample Cross Reference 667483

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SP 1 @ 5'	S	07.16.2020 00:00	5 ft	667483-001
SP 3 @ 3'	S	07.16.2020 00:00	3 ft	667483-002
SP 4 @ 5'	S	07.16.2020 00:00	5 ft	667483-003

CASE NARRATIVE

eurofins | Environment Testing Xenco

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Hopi Federal #2

Project ID: *12289*
Work Order Number(s): *667483*

Report Date: *07.22.2020*
Date Received: *07.17.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

eurofins | Environment Testing Xenco

Certificate of Analytical Results 667483

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**SP 1 @ 5'**	Matrix:	Soil	Date Received:	07.17.2020 10:57
Lab Sample Id:	667483-001	Date Collected:	07.16.2020 00:00	Sample Depth:	5 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.20.2020 11:05	Basis:	Wet Weight
Seq Number:	3132247				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1140**	50.0	mg/kg	07.21.2020 13:51		10

eurofins | Environment Testing Xenco

Certificate of Analytical Results 667483

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**SP 3 @ 3'**	Matrix:	Soil	Date Received:	07.17.2020 10:57
Lab Sample Id:	667483-002	Date Collected:	07.16.2020 00:00	Sample Depth:	3 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.20.2020 11:05	Basis:	Wet Weight
Seq Number:	3132247				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**336**	49.9	mg/kg	07.21.2020 13:56		10

eurofins | Environment Testing Xenco

Certificate of Analytical Results 667483

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**SP 4 @ 5'**	Matrix:	Soil	Date Received:	07.17.2020 10:57
Lab Sample Id:	667483-003	Date Collected:	07.16.2020 00:00	Sample Depth:	5 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.20.2020 11:05	Basis:	Wet Weight
Seq Number:	3132247				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**432**	49.9	mg/kg	07.21.2020 14:01		10

eurofins | Environment Testing Xenco

Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

QC Summary 667483

eurofins | Environment Testing Xenco

Etech Environmental & Safety Solution, Inc

Hopi Federal #2

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3132247 Matrix: Solid Date Prep: 07.20.2020
MB Sample Id: 7707669-1-BLK LCS Sample Id: 7707669-1-BKS LCSD Sample Id: 7707669-1-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	245	98	238	95	90-110	3	20	mg/kg	07.21.2020 11:10	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3132247 Matrix: Soil Date Prep: 07.20.2020
Parent Sample Id: 667447-003 MS Sample Id: 667447-003 S MSD Sample Id: 667447-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	2780	1250	3940	93	4150	110	90-110	5	20	mg/kg	07.21.2020 11:45	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3132247 Matrix: Soil Date Prep: 07.20.2020
Parent Sample Id: 667468-010 MS Sample Id: 667468-010 S MSD Sample Id: 667468-010 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	12.1	250	277	106	276	106	90-110	0	20	mg/kg	07.21.2020 12:58	

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

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

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

Chain of Custody

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: 1Ae7483

www.xenco.com Page _____ of _____

Project Manager:	Joel Lowry	Bill to: (if different)	Teffanie Fowlks
Company Name:	Etech Environmental & Safety	Company Name:	Endeavor
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378 Email:	Email Results to PM@etechenv.com + Client	

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:	Hopi Federal #2	Turn Around	
Project Number:	12289	Routine:	☑
Project Location		Rush:	☐
Sampler's Name:	Hector Villa	Due Date:	
PO #:			

SAMPLE RECEIPT			
Temperature (°C):	0.7	Temp Blank:	Yes (No)
Received Intact:	(Yes) No	Thermometer ID	D128
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.4
Sample Custody Seals:	Yes No (N/A)	Total Containers:	
		Wet Ice:	(Yes) No

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	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005	Sample Comments
SP1 @ 5'		7.16.20		5'	1	X				
SP3 @ 3'		7.16.20		3'	1	X				
SP4 @ 5'		7.16.20		5'	1	X				

ANALYSIS REQUEST

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

1.6

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		Ezra Cavill	7/16/20 3:20			
2				Ezra Cavill		7/17/20
3						
4						
5						1057
6						

Revised Date 101419 Rev. 2019.1

41 MAFA

TRK# 9061 5134 5570
0201

FRI - 17 JUL HOLD
PRIORITY OVERNIGHT
HLD
MAFA
LBB
TX-US

FedEx Express

ORIGIN ID:HOBA (575) 392-7550
MAIL SERVICES ETC
4008 N GRIMES
HOBBS, NM 88240
UNITED STATES US

TO XENCO HOLD FOR PICKUP
FEDEX EXPRESS SHIP CENTER
FEDEX EXPRESS SHIP CENTER
3600 COUNTY ROAD 1276 SOUTH
MIDLAND TX 79711
(432) 704-5440

INV:
PO:
DEPT:
REF:

SHIP DATE: 16JUL20
ACTWGT: 19.00 LB MAN
CAD: 0103362/CAFE3313
DIMS: 18x17x11 IN
BILL THIRD PARTY

565C1/C696/05A2

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 07.17.2020 10.57.00 AM

Work Order #: 667483

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

Temperature Measuring device used : IR-8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	.2
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**
#5 Custody Seals intact on sample bottles?	**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: 07.17.2020

Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 07.20.2020

Jessica Kramer

eurofins | Environment Testing Xenco

Certificate of Analysis Summary 668219

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Hopi Federal #2

Project Id: 12289
Contact: PM
Project Location: Eddy County, NM

Date Received in Lab: Mon 07.27.2020 11:15
Report Date: 07.28.2020 13:20
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	668219-001					
	Field Id:	SP1 @ 7'					
	Depth:	7- ft					
	Matrix:	SOIL					
	Sampled:	07.22.2020 00:00					
Chloride by EPA 300	***Extracted:***	07.27.2020 16:20					
	Analyzed:	07.27.2020 22:13					
	Units/RL:	mg/kg	RL				
Chloride		204	49.9				

BRL - Below Reporting Limit

Jessica Kramer

eurofins | Environment Testing Xenco

Analytical Report 668219

for

Etech Environmental & Safety Solution, Inc

Project Manager: PM

Hopi Federal #2

12289

07.28.2020

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-36), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-25), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-7)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

eurofins | Environment Testing Xenco

07.28.2020

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

Reference: Eurofins Xenco, LLC Report No(s): **668219**
Hopi Federal #2
Project Address: Eddy County, NM

PM :

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 668219. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 668219 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

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

eurofins | Environment Testing Xenco

Sample Cross Reference 668219

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SP1 @ 7'	S	07.22.2020 00:00	7 ft	668219-001

CASE NARRATIVE

eurofins | Environment Testing Xenco

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Hopi Federal #2

Project ID: *12289*
Work Order Number(s): *668219*

Report Date: *07.28.2020*
Date Received: *07.27.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

eurofins | Environment Testing Xenco

Certificate of Analytical Results 668219

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**SP1 @ 7'**	Matrix:	Soil	Date Received:	07.27.2020 11:15
Lab Sample Id:	668219-001	Date Collected:	07.22.2020 00:00	Sample Depth:	7 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.27.2020 16:20	Basis:	Wet Weight
Seq Number:	3132747				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**204**	49.9	mg/kg	07.27.2020 22:13		10

eurofins | Environment Testing Xenco

Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

QC Summary 668219

eurofins | Environment Testing Xenco

Etech Environmental & Safety Solution, Inc

Hopi Federal #2

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3132747 Matrix: Solid Date Prep: 07.27.2020
MB Sample Id: 7708161-1-BLK LCS Sample Id: 7708161-1-BKS LCSD Sample Id: 7708161-1-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	262	105	90-110	0	20	mg/kg	07.27.2020 20:12	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3132747 Matrix: Soil Date Prep: 07.27.2020
Parent Sample Id: 668271-001 MS Sample Id: 668271-001 S MSD Sample Id: 668271-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	3100	1250	4410	105	4450	108	90-110	1	20	mg/kg	07.27.2020 20:31	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3132747 Matrix: Soil Date Prep: 07.27.2020
Parent Sample Id: 668271-011 MS Sample Id: 668271-011 S MSD Sample Id: 668271-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	17.5	250	277	104	277	104	90-110	0	20	mg/kg	07.27.2020 22:00	

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: 068219

www.xenco.com Page 1 of 1

Project Manager:	Joel Lowry	Bill to: (if different)	Teffanie Fawks
Company Name:	Etech Environmental and Safety	Company Name:	Endeavor
Address:	3100 Plains Hwy	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to: PM@etechenv.com + Client

Work Order Comments

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

Project Name:	Hopi Federal #2	Turn Around	
Project Number:	12289	Routine:	☒
Project Location	Eddy County, NM	Rush:	☐
Sampler's Name:	Stoney Collins	Due Date:	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	2.5/2.1	Thermometer ID	IR6	
Received Intact:	(Yes) No			
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.4	
Sample Custody Seals:	Yes No (N/A)	Total Containers:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	BTEX (SW 846 8021B)	TPH (SW 846 8015M Ext.)	Cl- (4500 Cl)
SP1 @ 7'	Soil	7/22/2020		7'	1/NO			X

ANALYSIS REQUEST

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 Comments

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

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		Teresa Armendariz	7/24/20	2 Teresa Armendariz		7/27/20
3				4		1115
5				6		

Revised Date 101419 Rev. 2019.1

41 MAFA
TRK# 9061 5134 6176
0201
SATURDAY HOLD
PRIORITY OVERNIGHT
HLD
MAFKI
LBB
TX-US
FedEx
Express
XENCO HOLD FOR PICKUP
FEDEX OFFICE PRINT & SHIP CENTER
FEDEX OFFICE PRINT & SHIP CENTER
200 W INTERSTATE 20
M IDLAND TX 79701
(432) 704-5440
BILL THIRD PARTY
HOBBS, NM 88240
UNITED STATES US
ALL SERVICES ETC
4008 N GRIMES

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 07.27.2020 11.15.00 AM

Work Order #: 668219

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

Temperature Measuring device used : IR-8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	2.1
#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: 07.27.2020

Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 07.27.2020

Jessica Kramer

eurofins | Environment Testing Xenco

Certificate of Analysis Summary 669299

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Hopi Federal #2

Project Id: 12289
Contact: PM
Project Location: Endeavor

Date Received in Lab: Thu 08.06.2020 10:53
Report Date: 08.10.2020 13:03
Project Manager: Jessica Kramer

Analysis Requested		669299-001		669299-002		669299-003		669299-004		669299-005		669299-006	
	Lab Id:	669299-001		669299-002		669299-003		669299-004		669299-005		669299-006	
	Field Id:	NWW		NWHFSB @ 4'		WWWPJ		WW		NWH @ 3'		NWA	
	Depth:			4- ft						3- ft			
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	08.04.2020 00:00		08.04.2020 00:00		08.04.2020 00:00		08.04.2020 00:00		08.04.2020 00:00		08.04.2020 00:00	
BTEX by EPA 8021B	*Extracted:*	08.08.2020 15:30		08.08.2020 15:30		08.08.2020 15:30		08.08.2020 15:30		08.08.2020 15:30		08.08.2020 15:30	
	Analyzed:	08.10.2020 01:52		08.10.2020 02:12		08.10.2020 02:33		08.10.2020 02:53		08.10.2020 03:14		08.10.2020 03:34	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00198	0.00198	<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199
Toluene		<0.00198	0.00198	<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199
Ethylbenzene		<0.00198	0.00198	<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199
m,p-Xylenes		<0.00396	0.00396	<0.00397	0.00397	<0.00399	0.00399	<0.00400	0.00400	<0.00400	0.00400	<0.00398	0.00398
o-Xylene		<0.00198	0.00198	<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199
Total Xylenes		<0.00198	0.00198	<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199
Total BTEX		<0.00198	0.00198	<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199
Chloride by EPA 300	*Extracted:*	08.06.2020 14:50		08.06.2020 14:50		08.06.2020 14:50		08.06.2020 14:50		08.06.2020 14:50		08.06.2020 14:50	
	Analyzed:	08.06.2020 17:56		08.06.2020 18:02		08.06.2020 18:09		08.06.2020 18:28		08.06.2020 18:34		08.06.2020 18:53	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		4050	49.8	546	50.0	731	50.5	114	49.5	922	50.4	181	49.9
TPH By SW8015 Mod	*Extracted:*	08.06.2020 17:00		08.06.2020 17:00		08.06.2020 17:00		08.06.2020 17:00		08.06.2020 17:00		08.06.2020 17:00	
	Analyzed:	08.07.2020 02:29		08.07.2020 02:50		08.07.2020 03:11		08.07.2020 03:32		08.07.2020 03:52		08.07.2020 04:13	
	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	<49.8	49.8	<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.9	49.9
Diesel Range Organics (DRO)		<49.9	49.9	<49.8	49.8	<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.9	49.9
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	<49.8	49.8	<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.9	49.9
Total TPH		<49.9	49.9	<49.8	49.8	<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.9	49.9

BRL - Below Reporting Limit

Jessica Kramer

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Certificate of Analysis Summary 669299

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Hopi Federal #2

Project Id: 12289
Contact: PM
Project Location: Endeavor

Date Received in Lab: Thu 08.06.2020 10:53
Report Date: 08.10.2020 13:03
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	669299-007		669299-008		669299-009		669299-010					
	Field Id:	WFS		SWWPJ		SP1FS @ 8'		NWB					
	Depth:					8- ft							
	Matrix:	SOIL		SOIL		SOIL		SOIL					
	Sampled:	08.04.2020 00:00		08.04.2020 00:00		08.04.2020 00:00		08.04.2020 00:00					
BTEX by EPA 8021B	***Extracted:***	08.08.2020 15:30		08.08.2020 15:30		08.08.2020 15:30		08.08.2020 15:00					
	Analyzed:	08.10.2020 03:54		08.10.2020 04:15		08.10.2020 04:36		08.09.2020 10:05					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		<0.00199	0.00199	<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200				
Toluene		<0.00199	0.00199	<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200				
Ethylbenzene		<0.00199	0.00199	<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200				
m,p-Xylenes		<0.00398	0.00398	<0.00402	0.00402	<0.00398	0.00398	<0.00401	0.00401				
o-Xylene		<0.00199	0.00199	<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200				
Total Xylenes		<0.00199	0.00199	<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200				
Total BTEX		<0.00199	0.00199	<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200				
Chloride by EPA 300	***Extracted:***	08.06.2020 14:50		08.06.2020 14:50		08.06.2020 14:50		08.06.2020 14:50					
	Analyzed:	08.06.2020 18:59		08.06.2020 19:06		08.06.2020 19:12		08.06.2020 19:18					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		444	49.7	181	49.5	109	49.9	500	49.5				
TPH By SW8015 Mod	***Extracted:***	08.06.2020 17:00		08.06.2020 17:00		08.06.2020 17:00		08.06.2020 17:00					
	Analyzed:	08.07.2020 04:34		08.07.2020 04:55		08.07.2020 05:15		08.07.2020 05:36					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<49.9	49.9	<50.0	50.0	<50.0	50.0				
Diesel Range Organics (DRO)		<50.0	50.0	<49.9	49.9	<50.0	50.0	<50.0	50.0				
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<49.9	49.9	<50.0	50.0	<50.0	50.0				
Total TPH		<50.0	50.0	<49.9	49.9	<50.0	50.0	<50.0	50.0				

BRL - Below Reporting Limit

Jessica Kramer

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Analytical Report 669299

for

Etech Environmental & Safety Solution, Inc

Project Manager: PM

Hopi Federal #2

12289

08.10.2020

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-36), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-25), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-7)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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08.10.2020

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

Reference: Eurofins Xenco, LLC Report No(s): **669299**
Hopi Federal #2
Project Address: Endeavor

PM :

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 669299. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 669299 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

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

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Sample Cross Reference 669299

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
NWW	S	08.04.2020 00:00		669299-001
NWHFSB @ 4'	S	08.04.2020 00:00	4 ft	669299-002
WWWPJ	S	08.04.2020 00:00		669299-003
WW	S	08.04.2020 00:00		669299-004
NWH @ 3'	S	08.04.2020 00:00	3 ft	669299-005
NWA	S	08.04.2020 00:00		669299-006
WFS	S	08.04.2020 00:00		669299-007
SWWPJ	S	08.04.2020 00:00		669299-008
SP1FS @ 8'	S	08.04.2020 00:00	8 ft	669299-009
NWB	S	08.04.2020 00:00		669299-010

CASE NARRATIVE

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Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Hopi Federal #2

Project ID: *12289*
Work Order Number(s): *669299*

Report Date: *08.10.2020*
Date Received: *08.06.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 669299

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id: **NWW** Matrix: Soil Date Received:08.06.2020 10:53

Lab Sample Id: 669299-001 Date Collected: 08.04.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 08.06.2020 14:50 Basis: Wet Weight

Seq Number: 3133831

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4050**	49.8	mg/kg	08.06.2020 17:56		10

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.06.2020 17:00 Basis: Wet Weight

Seq Number: 3133888

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.07.2020 02:29	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.07.2020 02:29	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.07.2020 02:29	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.07.2020 02:29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-130	08.07.2020 02:29	
o-Terphenyl	84-15-1	87	%	70-130	08.07.2020 02:29	

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Certificate of Analytical Results 669299

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**NWW**	Matrix:	Soil	Date Received:	08.06.2020 10:53
Lab Sample Id:	669299-001	Date Collected:	08.04.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.08.2020 15:30	Basis:	Wet Weight
Seq Number:	3133986				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	08.10.2020 01:52	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	08.10.2020 01:52	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	08.10.2020 01:52	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	08.10.2020 01:52	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	08.10.2020 01:52	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	08.10.2020 01:52	U	1
Total BTEX		<0.00198	0.00198	mg/kg	08.10.2020 01:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	109	%	70-130	08.10.2020 01:52	
4-Bromofluorobenzene	460-00-4	125	%	70-130	08.10.2020 01:52	

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Certificate of Analytical Results 669299

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**NWHFSB @ 4'**	Matrix:	Soil	Date Received:	08.06.2020 10:53
Lab Sample Id:	669299-002	Date Collected:	08.04.2020 00:00	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.06.2020 14:50	Basis:	Wet Weight
Seq Number:	3133831				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**546**	50.0	mg/kg	08.06.2020 18:02		10

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.06.2020 17:00	Basis:	Wet Weight
Seq Number:	3133888				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	08.07.2020 02:50	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	08.07.2020 02:50	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	08.07.2020 02:50	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	08.07.2020 02:50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	83	%	70-130	08.07.2020 02:50	
o-Terphenyl	84-15-1	89	%	70-130	08.07.2020 02:50	

eurofins | Environment Testing Xenco

Certificate of Analytical Results 669299

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**NWHFSB @ 4'**	Matrix:	Soil	Date Received:	08.06.2020 10:53
Lab Sample Id:	669299-002	Date Collected:	08.04.2020 00:00	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.08.2020 15:30	Basis:	Wet Weight
Seq Number:	3133986				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	08.10.2020 02:12	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	08.10.2020 02:12	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	08.10.2020 02:12	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	08.10.2020 02:12	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	08.10.2020 02:12	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	08.10.2020 02:12	U	1
Total BTEX		<0.00198	0.00198	mg/kg	08.10.2020 02:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	107	%	70-130	08.10.2020 02:12	
4-Bromofluorobenzene	460-00-4	121	%	70-130	08.10.2020 02:12	

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Certificate of Analytical Results 669299

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**WWWPJ**	Matrix:	Soil	Date Received:	08.06.2020 10:53
Lab Sample Id:	669299-003	Date Collected:	08.04.2020 00:00		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.06.2020 14:50	Basis:	Wet Weight
Seq Number:	3133831				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**731**	50.5	mg/kg	08.06.2020 18:09		10

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.06.2020 17:00	Basis:	Wet Weight
Seq Number:	3133888				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.07.2020 03:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.07.2020 03:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.07.2020 03:11	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.07.2020 03:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-130	08.07.2020 03:11	
o-Terphenyl	84-15-1	88	%	70-130	08.07.2020 03:11	

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Certificate of Analytical Results 669299

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**WWWPJ**	Matrix:	Soil	Date Received:	08.06.2020 10:53
Lab Sample Id:	669299-003	Date Collected:	08.04.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.08.2020 15:30	Basis:	Wet Weight
Seq Number:	3133986				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.10.2020 02:33	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.10.2020 02:33	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.10.2020 02:33	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	08.10.2020 02:33	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.10.2020 02:33	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.10.2020 02:33	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.10.2020 02:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	119	%	70-130	08.10.2020 02:33	
1,4-Difluorobenzene	540-36-3	105	%	70-130	08.10.2020 02:33	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id: **WW** Matrix: Soil Date Received:08.06.2020 10:53

Lab Sample Id: 669299-004 Date Collected: 08.04.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 08.06.2020 14:50 Basis: Wet Weight

Seq Number: 3133831

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**114**	49.5	mg/kg	08.06.2020 18:28		10

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.06.2020 17:00 Basis: Wet Weight

Seq Number: 3133888

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.07.2020 03:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.07.2020 03:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.07.2020 03:32	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.07.2020 03:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	82	%	70-130	08.07.2020 03:32	
o-Terphenyl	84-15-1	86	%	70-130	08.07.2020 03:32	

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Certificate of Analytical Results 669299

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**WW**	Matrix:	Soil	Date Received:	08.06.2020 10:53
Lab Sample Id:	669299-004	Date Collected:	08.04.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.08.2020 15:30	Basis:	Wet Weight
Seq Number:	3133986				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.10.2020 02:53	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.10.2020 02:53	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.10.2020 02:53	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	08.10.2020 02:53	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.10.2020 02:53	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.10.2020 02:53	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.10.2020 02:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	126	%	70-130	08.10.2020 02:53	
1,4-Difluorobenzene	540-36-3	108	%	70-130	08.10.2020 02:53	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**NWH @ 3'**	Matrix:	Soil	Date Received:	08.06.2020 10:53
Lab Sample Id:	669299-005	Date Collected:	08.04.2020 00:00	Sample Depth:	3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.06.2020 14:50	Basis:	Wet Weight
Seq Number:	3133831				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**922**	50.4	mg/kg	08.06.2020 18:34		10

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.06.2020 17:00	Basis:	Wet Weight
Seq Number:	3133888				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.07.2020 03:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.07.2020 03:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.07.2020 03:52	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.07.2020 03:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	82	%	70-130	08.07.2020 03:52	
o-Terphenyl	84-15-1	87	%	70-130	08.07.2020 03:52	

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Hopi Federal #2

Sample Id:	**NWH @ 3'**	Matrix:	Soil	Date Received:	08.06.2020 10:53
Lab Sample Id:	669299-005	Date Collected:	08.04.2020 00:00	Sample Depth:	3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.08.2020 15:30	Basis:	Wet Weight
Seq Number:	3133986				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.10.2020 03:14	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.10.2020 03:14	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.10.2020 03:14	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	08.10.2020 03:14	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.10.2020 03:14	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.10.2020 03:14	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.10.2020 03:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	115	%	70-130	08.10.2020 03:14	
1,4-Difluorobenzene	540-36-3	107	%	70-130	08.10.2020 03:14	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id: **NWA** Matrix: Soil Date Received:08.06.2020 10:53

Lab Sample Id: 669299-006 Date Collected: 08.04.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 08.06.2020 14:50 Basis: Wet Weight

Seq Number: 3133831

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**181**	49.9	mg/kg	08.06.2020 18:53		10

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.06.2020 17:00 Basis: Wet Weight

Seq Number: 3133888

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.07.2020 04:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.07.2020 04:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.07.2020 04:13	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.07.2020 04:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	82	%	70-130	08.07.2020 04:13	
o-Terphenyl	84-15-1	86	%	70-130	08.07.2020 04:13	

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Hopi Federal #2

Sample Id:	**NWA**	Matrix:	Soil	Date Received:	08.06.2020 10:53
Lab Sample Id:	669299-006	Date Collected:	08.04.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.08.2020 15:30	Basis:	Wet Weight
Seq Number:	3133986				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.10.2020 03:34	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.10.2020 03:34	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.10.2020 03:34	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.10.2020 03:34	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.10.2020 03:34	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.10.2020 03:34	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.10.2020 03:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	111	%	70-130	08.10.2020 03:34	
4-Bromofluorobenzene	460-00-4	127	%	70-130	08.10.2020 03:34	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id: **WFS** Matrix: Soil Date Received:08.06.2020 10:53

Lab Sample Id: 669299-007 Date Collected: 08.04.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 08.06.2020 14:50 Basis: Wet Weight

Seq Number: 3133831

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**444**	49.7	mg/kg	08.06.2020 18:59		10

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.06.2020 17:00 Basis: Wet Weight

Seq Number: 3133888

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.07.2020 04:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.07.2020 04:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.07.2020 04:34	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.07.2020 04:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	83	%	70-130	08.07.2020 04:34	
o-Terphenyl	84-15-1	90	%	70-130	08.07.2020 04:34	

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Certificate of Analytical Results 669299

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**WFS**	Matrix:	Soil	Date Received:	08.06.2020 10:53
Lab Sample Id:	669299-007	Date Collected:	08.04.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.08.2020 15:30	Basis:	Wet Weight
Seq Number:	3133986				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.10.2020 03:54	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.10.2020 03:54	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.10.2020 03:54	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.10.2020 03:54	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.10.2020 03:54	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.10.2020 03:54	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.10.2020 03:54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	109	%	70-130	08.10.2020 03:54	
4-Bromofluorobenzene	460-00-4	123	%	70-130	08.10.2020 03:54	

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Certificate of Analytical Results 669299

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id: **SWWPJ** Matrix: Soil Date Received:08.06.2020 10:53

Lab Sample Id: 669299-008 Date Collected: 08.04.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 08.06.2020 14:50 Basis: Wet Weight

Seq Number: 3133831

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**181**	49.5	mg/kg	08.06.2020 19:06		10

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.06.2020 17:00 Basis: Wet Weight

Seq Number: 3133888

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.07.2020 04:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.07.2020 04:55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.07.2020 04:55	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.07.2020 04:55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-130	08.07.2020 04:55	
o-Terphenyl	84-15-1	89	%	70-130	08.07.2020 04:55	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**SWWPJ**	Matrix:	Soil	Date Received:	08.06.2020 10:53
Lab Sample Id:	669299-008	Date Collected:	08.04.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.08.2020 15:30	Basis:	Wet Weight
Seq Number:	3133986				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	08.10.2020 04:15	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	08.10.2020 04:15	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	08.10.2020 04:15	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	08.10.2020 04:15	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	08.10.2020 04:15	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	08.10.2020 04:15	U	1
Total BTEX		<0.00201	0.00201	mg/kg	08.10.2020 04:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	112	%	70-130	08.10.2020 04:15	
4-Bromofluorobenzene	460-00-4	121	%	70-130	08.10.2020 04:15	

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Certificate of Analytical Results 669299

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**SP1FS @ 8'**	Matrix:	Soil	Date Received:	08.06.2020 10:53
Lab Sample Id:	669299-009	Date Collected:	08.04.2020 00:00	Sample Depth:	8 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.06.2020 14:50	Basis:	Wet Weight
Seq Number:	3133831				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**109**	49.9	mg/kg	08.06.2020 19:12		10

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.06.2020 17:00	Basis:	Wet Weight
Seq Number:	3133888				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.07.2020 05:15	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.07.2020 05:15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.07.2020 05:15	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.07.2020 05:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-130	08.07.2020 05:15	
o-Terphenyl	84-15-1	90	%	70-130	08.07.2020 05:15	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**SP1FS @ 8'**	Matrix:	Soil	Date Received:	08.06.2020 10:53
Lab Sample Id:	669299-009	Date Collected:	08.04.2020 00:00	Sample Depth:	8 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.08.2020 15:30	Basis:	Wet Weight
Seq Number:	3133986				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.10.2020 04:36	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.10.2020 04:36	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.10.2020 04:36	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.10.2020 04:36	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.10.2020 04:36	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.10.2020 04:36	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.10.2020 04:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	111	%	70-130	08.10.2020 04:36	
4-Bromofluorobenzene	460-00-4	116	%	70-130	08.10.2020 04:36	

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Certificate of Analytical Results 669299

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id: **NWB** Matrix: Soil Date Received:08.06.2020 10:53

Lab Sample Id: 669299-010 Date Collected: 08.04.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 08.06.2020 14:50 Basis: Wet Weight

Seq Number: 3133831

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**500**	49.5	mg/kg	08.06.2020 19:18		10

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.06.2020 17:00 Basis: Wet Weight

Seq Number: 3133888

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.07.2020 05:36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.07.2020 05:36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.07.2020 05:36	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.07.2020 05:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	79	%	70-130	08.07.2020 05:36	
o-Terphenyl	84-15-1	86	%	70-130	08.07.2020 05:36	

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Certificate of Analytical Results 669299

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**NWB**	Matrix:	Soil	Date Received:	08.06.2020 10:53
Lab Sample Id:	669299-010	Date Collected:	08.04.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.08.2020 15:00	Basis:	Wet Weight
Seq Number:	3133984				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.09.2020 10:05	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.09.2020 10:05	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.09.2020 10:05	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	08.09.2020 10:05	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.09.2020 10:05	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.09.2020 10:05	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.09.2020 10:05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	114	%	70-130	08.09.2020 10:05	
1,4-Difluorobenzene	540-36-3	110	%	70-130	08.09.2020 10:05	

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Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

QC Summary 669299

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Etech Environmental & Safety Solution, Inc

Hopi Federal #2

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3133831 — Matrix: Solid — Date Prep: 08.06.2020
MB Sample Id: 7708872-1-BLK — LCS Sample Id: 7708872-1-BKS — LCSD Sample Id: 7708872-1-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	249	100	250	100	90-110	0	20	mg/kg	08.06.2020 16:12	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3133831 — Matrix: Soil — Date Prep: 08.06.2020
Parent Sample Id: 669268-009 — MS Sample Id: 669268-009 S — MSD Sample Id: 669268-009 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	204	252	478	109	469	105	90-110	2	20	mg/kg	08.06.2020 16:31	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3133831 — Matrix: Soil — Date Prep: 08.06.2020
Parent Sample Id: 669299-003 — MS Sample Id: 669299-003 S — MSD Sample Id: 669299-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	731	2530	3430	107	3400	105	90-110	1	20	mg/kg	08.06.2020 18:15	

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3133888 — Matrix: Solid — Date Prep: 08.06.2020
MB Sample Id: 7708925-1-BLK — LCS Sample Id: 7708925-1-BKS — LCSD Sample Id: 7708925-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	824	82	838	84	70-130	2	20	mg/kg	08.06.2020 21:15	
Diesel Range Organics (DRO)	<50.0	1000	837	84	820	82	70-130	2	20	mg/kg	08.06.2020 21:15	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	88		89		96		70-130	%	08.06.2020 21:15
o-Terphenyl	91		89		98		70-130	%	08.06.2020 21:15

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3133888 — Matrix: Solid — Date Prep: 08.06.2020
MB Sample Id: 7708925-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	08.06.2020 20:54	

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

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QC Summary 669299

Etech Environmental & Safety Solution, Inc

Hopi Federal #2

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3133888 — Matrix: Soil — Date Prep: 08.06.2020
Parent Sample Id: 669110-001 — MS Sample Id: 669110-001 S — MSD Sample Id: 669110-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.8	996	782	79	780	78	70-130	0	20	mg/kg	08.06.2020 22:18	
Diesel Range Organics (DRO)	<49.8	996	819	82	816	82	70-130	0	20	mg/kg	08.06.2020 22:18	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	90		90		70-130	%	08.06.2020 22:18
o-Terphenyl	89		88		70-130	%	08.06.2020 22:18

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3133984 — Matrix: Solid — Date Prep: 08.08.2020
MB Sample Id: 7709042-1-BLK — LCS Sample Id: 7709042-1-BKS — LCSD Sample Id: 7709042-1-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	0.0804	80	0.0850	85	70-130	6	35	mg/kg	08.09.2020 07:43	
Toluene	<0.00200	0.100	0.0783	78	0.0826	83	70-130	5	35	mg/kg	08.09.2020 07:43	
Ethylbenzene	<0.00200	0.100	0.0784	78	0.0824	82	70-130	5	35	mg/kg	08.09.2020 07:43	
m,p-Xylenes	<0.00400	0.200	0.154	77	0.161	81	70-130	4	35	mg/kg	08.09.2020 07:43	
o-Xylene	<0.00200	0.100	0.0789	79	0.0831	83	70-130	5	35	mg/kg	08.09.2020 07:43	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	106		99		100		70-130	%	08.09.2020 07:43
4-Bromofluorobenzene	107		99		102		70-130	%	08.09.2020 07:43

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3133986 — Matrix: Solid — Date Prep: 08.08.2020
MB Sample Id: 7709044-1-BLK — LCS Sample Id: 7709044-1-BKS — LCSD Sample Id: 7709044-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.110	110	0.105	105	70-130	5	35	mg/kg	08.09.2020 18:40	
Toluene	<0.00200	0.100	0.0976	98	0.0940	94	70-130	4	35	mg/kg	08.09.2020 18:40	
Ethylbenzene	<0.00200	0.100	0.0912	91	0.0884	88	70-130	3	35	mg/kg	08.09.2020 18:40	
m,p-Xylenes	<0.00400	0.200	0.180	90	0.174	87	70-130	3	35	mg/kg	08.09.2020 18:40	
o-Xylene	<0.00200	0.100	0.0896	90	0.0869	87	70-130	3	35	mg/kg	08.09.2020 18:40	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	108		103		101		70-130	%	08.09.2020 18:40
4-Bromofluorobenzene	106		95		93		70-130	%	08.09.2020 18:40

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 669299

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Hopi Federal #2

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3133984 Matrix: Soil Date Prep: 08.08.2020
Parent Sample Id: 669299-010 MS Sample Id: 669299-010 S MSD Sample Id: 669299-010 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.0759	76	0.0735	74	70-130	3	35	mg/kg	08.09.2020 08:24	
Toluene	<0.00200	0.0998	0.0740	74	0.0723	72	70-130	2	35	mg/kg	08.09.2020 08:24	
Ethylbenzene	<0.00200	0.0998	0.0746	75	0.0728	73	70-130	2	35	mg/kg	08.09.2020 08:24	
m,p-Xylenes	<0.00399	0.200	0.146	73	0.142	71	70-130	3	35	mg/kg	08.09.2020 08:24	
o-Xylene	<0.00200	0.0998	0.0746	75	0.0721	72	70-130	3	35	mg/kg	08.09.2020 08:24	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		99		70-130	%	08.09.2020 08:24
4-Bromofluorobenzene	106		102		70-130	%	08.09.2020 08:24

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3133986 Matrix: Soil Date Prep: 08.08.2020
Parent Sample Id: 669480-033 MS Sample Id: 669480-033 S MSD Sample Id: 669480-033 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00202	0.101	0.0640	63	0.0600	59	70-130	6	35	mg/kg	08.09.2020 19:22	X
Toluene	<0.00202	0.101	0.0446	44	0.0419	41	70-130	6	35	mg/kg	08.09.2020 19:22	X
Ethylbenzene	<0.00202	0.101	0.0348	34	0.0333	33	70-130	4	35	mg/kg	08.09.2020 19:22	X
m,p-Xylenes	<0.00403	0.202	0.0552	27	0.0507	25	70-130	8	35	mg/kg	08.09.2020 19:22	X
o-Xylene	<0.00202	0.101	0.0382	38	0.0372	37	70-130	3	35	mg/kg	08.09.2020 19:22	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	108		109		70-130	%	08.09.2020 19:22
4-Bromofluorobenzene	106		108		70-130	%	08.09.2020 19:22

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: 12289

Ud9299

www.xenco.com Page 1 of 1

Project Manager:	Joel Lowry	Bill to: (if different)	Endeavor
Company Name:	Etech Environmental & Safety	Company Name:	Endeavor - Tiffany Fouks
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@etechenv.com + Client

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:	Hopi Federal #2	Turn Around	
Project Number:	12289	Routine:	☑
Project Location	Endeavor	Rush:	☐
Sampler's Name:	Eric Mojica	Due Date:	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	0.9 | 0.5	Thermometer ID		
Received Intact:	(Yes) No		IR8	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:		
Sample Custody Seals:	Yes No (N/A)	Total Containers:		

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005
NWW	S	8-4-20			1	✓	✓	✓	
NWHFS Be4'	S	8-4-20		4'	1	✓	✓	✓	
WWWPOJ	S	8-4-20			1	✓	✓	✓	
WW	S	8-3-20			1	✓	✓	✓	
NWH e3'	S	8-3-20		3'	1	✓	✓	✓	
NWA	S	8-4-20			1	✓	✓	✓	
WFS	S	8-3-20			1	✓	✓	✓	
SWWPJ	S	8-4-20			1	✓	✓	✓	
SPIFSe 8'	S	8-4-20		8'	1	✓	✓	✓	
NW B	S	8-4-20			1	✓	✓	✓	

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 Comments

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Eric Mojica	Teresa Arrendondo	8/5/20	2 Teresa Arrendondo		8/6/20
3			4		
5			6		1053

Revised Date 101419 Rev. 2019.1

ORIGIN ID:HOBA
MAIL SERVICES ETC
4008 N GRIMES
HOBBS, NM 88240
UNITED STATES US
TO XENCO HOLD FOR PICKUP
FEDEX EXPRESS SHIP CENTER
FEDEX EXPRESS SHIP CENTER
3600 COUNTY ROAD 1276 SOUTH
MIDLAND TX 79711
(432) 704-5440
INV:
PO:
REF:
DEPT:
FedEx Express
TRK# 9061 5134 6901
0201
THU - 06 AUG HOLD
PRIORITY OVERNIGHT
HLD
MAFA
TX-US LBB
41 MAFA
BILL THIRD PARTY
DIMS: 25x15x15 IN
CAD: 0103352/CAFE3313
ACTWGT: 26.00 LB MAN
05AU520
5955C/7698/05A2

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 08.06.2020 10.53.00 AM

Work Order #: 669299

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

Temperature Measuring device used : IR-8

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	.4	
#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**	BTEX was in bulk container
#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: 08.06.2020
Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 08.06.2020
Jessica Kramer

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Certificate of Analysis Summary 669581

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Hopi Federal #2

Project Id: 12289
Contact: PM
Project Location: Eddy County, NM

Date Received in Lab: Mon 08.10.2020 10:01
Report Date: 08.11.2020 15:31
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	669581-001		669581-002		669581-003		669581-004		669581-005		669581-006	
	Field Id:	NW1		SW1		SW2		SW3		BWHS @ 5'		SP4FS @ 5'	
	Depth:									5- ft		5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	08.05.2020 00:00		08.05.2020 00:00		08.05.2020 00:00		08.06.2020 00:00		08.06.2020 00:00		08.05.2020 00:00	
BTEX by EPA 8021B	***Extracted:***	08.10.2020 13:00		08.10.2020 13:00		08.10.2020 13:00		08.10.2020 13:00		08.10.2020 13:00		08.10.2020 13:00	
	Analyzed:	08.11.2020 04:54		08.11.2020 05:14		08.11.2020 05:34		08.11.2020 05:55		08.11.2020 06:15		08.11.2020 06:36	
	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	<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199
Toluene		<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199
Ethylbenzene		<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199
m,p-Xylenes		<0.00399	0.00399	<0.00398	0.00398	<0.00402	0.00402	<0.00398	0.00398	<0.00399	0.00399	<0.00398	0.00398
o-Xylene		<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199
Total Xylenes		<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199
Total BTEX		<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199
Chloride by EPA 300	***Extracted:***	08.10.2020 12:50		08.10.2020 12:50		08.10.2020 12:50		08.10.2020 12:50		08.10.2020 12:50		08.10.2020 12:50	
	Analyzed:	08.10.2020 13:39		08.10.2020 13:46		08.10.2020 13:52		08.10.2020 13:58		08.10.2020 14:17		08.10.2020 14:24	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		369	25.1	455	49.6	594	50.0	460	49.8	162	25.0	623	25.0
TPH By SW8015 Mod	***Extracted:***	08.10.2020 12:00		08.10.2020 12:00		08.10.2020 12:00		08.10.2020 12:00		08.10.2020 12:00		08.10.2020 12:00	
	Analyzed:	08.10.2020 17:51		08.10.2020 18:46		08.10.2020 19:13		08.10.2020 19:39		08.10.2020 20:04		08.10.2020 20:29	
	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	<49.9	49.9	<50.0	50.0	<49.9	49.9	<49.9	49.9
Diesel Range Organics (DRO)		<50.0	50.0	<49.9	49.9	<49.9	49.9	<50.0	50.0	<49.9	49.9	<49.9	49.9
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<49.9	49.9	<49.9	49.9	<50.0	50.0	<49.9	49.9	<49.9	49.9
Total TPH		<50.0	50.0	<49.9	49.9	<49.9	49.9	<50.0	50.0	<49.9	49.9	<49.9	49.9

BRL - Below Reporting Limit

Jessica Kramer

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

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Certificate of Analysis Summary 669581

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Hopi Federal #2

Project Id: 12289
Contact: PM
Project Location: Eddy County, NM

Date Received in Lab: Mon 08.10.2020 10:01
Report Date: 08.11.2020 15:31
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	669581-007		669581-008			
	Field Id:	SP4FSA @ 5'		SP4FSB @ 7'			
	Depth:	5- ft		7- ft			
	Matrix:	SOIL		SOIL			
	Sampled:	08.05.2020 00:00		08.06.2020 00:00			
BTEX by EPA 8021B	***Extracted:***	08.10.2020 13:00		08.10.2020 13:00			
	Analyzed:	08.11.2020 06:56		08.11.2020 07:16			
	Units/RL:	mg/kg	RL	mg/kg	RL		
Benzene		<0.00198	0.00198	<0.00200	0.00200		
Toluene		<0.00198	0.00198	<0.00200	0.00200		
Ethylbenzene		<0.00198	0.00198	<0.00200	0.00200		
m,p-Xylenes		<0.00396	0.00396	<0.00401	0.00401		
o-Xylene		<0.00198	0.00198	<0.00200	0.00200		
Total Xylenes		<0.00198	0.00198	<0.00200	0.00200		
Total BTEX		<0.00198	0.00198	<0.00200	0.00200		
Chloride by EPA 300	***Extracted:***	08.10.2020 12:50		08.10.2020 12:50			
	Analyzed:	08.10.2020 14:30		08.10.2020 14:36			
	Units/RL:	mg/kg	RL	mg/kg	RL		
Chloride		315	50.4	62.2	49.9		
TPH By SW8015 Mod	***Extracted:***	08.10.2020 12:00		08.10.2020 12:00			
	Analyzed:	08.10.2020 20:55		08.10.2020 21:19			
	Units/RL:	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		<49.8	49.8	<50.0	50.0		
Diesel Range Organics (DRO)		<49.8	49.8	<50.0	50.0		
Motor Oil Range Hydrocarbons (MRO)		<49.8	49.8	<50.0	50.0		
Total TPH		<49.8	49.8	<50.0	50.0		

BRL - Below Reporting Limit

Jessica Kramer

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Analytical Report 669581

for

Etech Environmental & Safety Solution, Inc

Project Manager: PM

Hopi Federal #2

12289

08.11.2020

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-36), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-25), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-7)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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08.11.2020

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

Reference: Eurofins Xenco, LLC Report No(s): **669581**
Hopi Federal #2
Project Address: Eddy County, NM

PM :

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 669581. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 669581 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

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

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Sample Cross Reference 669581

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
NW1	S	08.05.2020 00:00		669581-001
SW1	S	08.05.2020 00:00		669581-002
SW2	S	08.05.2020 00:00		669581-003
SW3	S	08.06.2020 00:00		669581-004
BWHS @ 5'	S	08.06.2020 00:00	5 ft	669581-005
SP4FS @ 5'	S	08.05.2020 00:00	5 ft	669581-006
SP4FSA @ 5'	S	08.05.2020 00:00	5 ft	669581-007
SP4FSB @ 7'	S	08.06.2020 00:00	7 ft	669581-008

CASE NARRATIVE

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Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Hopi Federal #2

Project ID: *12289*
Work Order Number(s): *669581*

Report Date: *08.11.2020*
Date Received: *08.10.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 669581

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id: **NW1** Matrix: Soil Date Received:08.10.2020 10:01

Lab Sample Id: 669581-001 Date Collected: 08.05.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 08.10.2020 12:50 Basis: Wet Weight

Seq Number: 3134090

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**369**	25.1	mg/kg	08.10.2020 13:39		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.10.2020 12:00 Basis: Wet Weight

Seq Number: 3134154

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.10.2020 17:51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.10.2020 17:51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.10.2020 17:51	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.10.2020 17:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-130	08.10.2020 17:51	
o-Terphenyl	84-15-1	76	%	70-130	08.10.2020 17:51	

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Certificate of Analytical Results 669581

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**NW1**	Matrix:	Soil	Date Received:	08.10.2020 10:01
Lab Sample Id:	669581-001	Date Collected:	08.05.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	08.10.2020 13:00	Basis:	Wet Weight
Seq Number:	3134108				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.11.2020 04:54	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.11.2020 04:54	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.11.2020 04:54	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	08.11.2020 04:54	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.11.2020 04:54	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.11.2020 04:54	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.11.2020 04:54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	100	%	70-130	08.11.2020 04:54	
1,4-Difluorobenzene	540-36-3	114	%	70-130	08.11.2020 04:54	

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Certificate of Analytical Results 669581

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id: **SW1** Matrix: Soil Date Received:08.10.2020 10:01

Lab Sample Id: 669581-002 Date Collected: 08.05.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 08.10.2020 12:50 Basis: Wet Weight

Seq Number: 3134090

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**455**	49.6	mg/kg	08.10.2020 13:46		10

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.10.2020 12:00 Basis: Wet Weight

Seq Number: 3134154

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.10.2020 18:46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.10.2020 18:46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.10.2020 18:46	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.10.2020 18:46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	70	%	70-130	08.10.2020 18:46	
o-Terphenyl	84-15-1	71	%	70-130	08.10.2020 18:46	

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Certificate of Analytical Results 669581

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**SW1**	Matrix:	Soil	Date Received:	08.10.2020 10:01
Lab Sample Id:	669581-002	Date Collected:	08.05.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	08.10.2020 13:00	Basis:	Wet Weight
Seq Number:	3134108				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.11.2020 05:14	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.11.2020 05:14	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.11.2020 05:14	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.11.2020 05:14	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.11.2020 05:14	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.11.2020 05:14	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.11.2020 05:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	105	%	70-130	08.11.2020 05:14	
1,4-Difluorobenzene	540-36-3	116	%	70-130	08.11.2020 05:14	

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Certificate of Analytical Results 669581

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id: **SW2** Matrix: Soil Date Received:08.10.2020 10:01

Lab Sample Id: 669581-003 Date Collected: 08.05.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 08.10.2020 12:50 Basis: Wet Weight

Seq Number: 3134090

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**594**	50.0	mg/kg	08.10.2020 13:52		10

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.10.2020 12:00 Basis: Wet Weight

Seq Number: 3134154

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.10.2020 19:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.10.2020 19:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.10.2020 19:13	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.10.2020 19:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	85	%	70-130	08.10.2020 19:13	
o-Terphenyl	84-15-1	94	%	70-130	08.10.2020 19:13	

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Certificate of Analytical Results 669581

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**SW2**	Matrix:	Soil	Date Received:	08.10.2020 10:01
Lab Sample Id:	669581-003	Date Collected:	08.05.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	08.10.2020 13:00	Basis:	Wet Weight
Seq Number:	3134108				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	08.11.2020 05:34	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	08.11.2020 05:34	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	08.11.2020 05:34	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	08.11.2020 05:34	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	08.11.2020 05:34	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	08.11.2020 05:34	U	1
Total BTEX		<0.00201	0.00201	mg/kg	08.11.2020 05:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	70-130	08.11.2020 05:34	
1,4-Difluorobenzene	540-36-3	114	%	70-130	08.11.2020 05:34	

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Certificate of Analytical Results 669581

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id: **SW3** Matrix: Soil Date Received:08.10.2020 10:01

Lab Sample Id: 669581-004 Date Collected: 08.06.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 08.10.2020 12:50 Basis: Wet Weight

Seq Number: 3134090

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**460**	49.8	mg/kg	08.10.2020 13:58		10

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.10.2020 12:00 Basis: Wet Weight

Seq Number: 3134154

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.10.2020 19:39	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.10.2020 19:39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.10.2020 19:39	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.10.2020 19:39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	85	%	70-130	08.10.2020 19:39	
o-Terphenyl	84-15-1	83	%	70-130	08.10.2020 19:39	

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Certificate of Analytical Results 669581

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**SW3**	Matrix:	Soil	Date Received:	08.10.2020 10:01
Lab Sample Id:	669581-004	Date Collected:	08.06.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	08.10.2020 13:00	Basis:	Wet Weight
Seq Number:	3134108				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.11.2020 05:55	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.11.2020 05:55	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.11.2020 05:55	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.11.2020 05:55	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.11.2020 05:55	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.11.2020 05:55	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.11.2020 05:55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	101	%	70-130	08.11.2020 05:55	
1,4-Difluorobenzene	540-36-3	114	%	70-130	08.11.2020 05:55	

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Certificate of Analytical Results 669581

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id: **BWHS @ 5'** Matrix: Soil Date Received:08.10.2020 10:01
Lab Sample Id: 669581-005 Date Collected: 08.06.2020 00:00 Sample Depth: 5 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P
Tech: CHE % Moisture:
Analyst: CHE Date Prep: 08.10.2020 12:50 Basis: Wet Weight
Seq Number: 3134090

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**162**	25.0	mg/kg	08.10.2020 14:17		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
Tech: DVM % Moisture:
Analyst: ARM Date Prep: 08.10.2020 12:00 Basis: Wet Weight
Seq Number: 3134154

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.10.2020 20:04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.10.2020 20:04	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.10.2020 20:04	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.10.2020 20:04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-130	08.10.2020 20:04	
o-Terphenyl	84-15-1	92	%	70-130	08.10.2020 20:04	

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Certificate of Analytical Results 669581

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**BWHS @ 5'**	Matrix:	Soil	Date Received:	08.10.2020 10:01
Lab Sample Id:	669581-005	Date Collected:	08.06.2020 00:00	Sample Depth:	5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	08.10.2020 13:00	Basis:	Wet Weight
Seq Number:	3134108				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.11.2020 06:15	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.11.2020 06:15	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.11.2020 06:15	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	08.11.2020 06:15	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.11.2020 06:15	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.11.2020 06:15	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.11.2020 06:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	107	%	70-130	08.11.2020 06:15	
1,4-Difluorobenzene	540-36-3	117	%	70-130	08.11.2020 06:15	

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Certificate of Analytical Results 669581

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**SP4FS @ 5'**	Matrix:	Soil	Date Received:	08.10.2020 10:01
Lab Sample Id:	669581-006	Date Collected:	08.05.2020 00:00	Sample Depth:	5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.10.2020 12:50	Basis:	Wet Weight
Seq Number:	3134090				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**623**	25.0	mg/kg	08.10.2020 14:24		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.10.2020 12:00	Basis:	Wet Weight
Seq Number:	3134154				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.10.2020 20:29	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.10.2020 20:29	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.10.2020 20:29	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.10.2020 20:29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-130	08.10.2020 20:29	
o-Terphenyl	84-15-1	104	%	70-130	08.10.2020 20:29	

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Certificate of Analytical Results 669581

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**SP4FS @ 5'**	Matrix:	Soil	Date Received:	08.10.2020 10:01
Lab Sample Id:	669581-006	Date Collected:	08.05.2020 00:00	Sample Depth:	5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	08.10.2020 13:00	Basis:	Wet Weight
Seq Number:	3134108				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.11.2020 06:36	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.11.2020 06:36	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.11.2020 06:36	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.11.2020 06:36	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.11.2020 06:36	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.11.2020 06:36	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.11.2020 06:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	109	%	70-130	08.11.2020 06:36	
1,4-Difluorobenzene	540-36-3	113	%	70-130	08.11.2020 06:36	

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Certificate of Analytical Results 669581

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id: **SP4FSA @ 5'** Matrix: Soil Date Received:08.10.2020 10:01

Lab Sample Id: 669581-007 Date Collected: 08.05.2020 00:00 Sample Depth: 5 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 08.10.2020 12:50 Basis: Wet Weight

Seq Number: 3134090

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**315**	50.4	mg/kg	08.10.2020 14:30		10

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.10.2020 12:00 Basis: Wet Weight

Seq Number: 3134154

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	08.10.2020 20:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	08.10.2020 20:55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	08.10.2020 20:55	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	08.10.2020 20:55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-130	08.10.2020 20:55	
o-Terphenyl	84-15-1	104	%	70-130	08.10.2020 20:55	

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Certificate of Analytical Results 669581

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**SP4FSA @ 5'**	Matrix:	Soil	Date Received:	08.10.2020 10:01
Lab Sample Id:	669581-007	Date Collected:	08.05.2020 00:00	Sample Depth:	5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	08.10.2020 13:00	Basis:	Wet Weight
Seq Number:	3134108				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	08.11.2020 06:56	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	08.11.2020 06:56	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	08.11.2020 06:56	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	08.11.2020 06:56	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	08.11.2020 06:56	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	08.11.2020 06:56	U	1
Total BTEX		<0.00198	0.00198	mg/kg	08.11.2020 06:56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	102	%	70-130	08.11.2020 06:56	
1,4-Difluorobenzene	540-36-3	116	%	70-130	08.11.2020 06:56	

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Certificate of Analytical Results 669581

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**SP4FSB @ 7'**	Matrix:	Soil	Date Received:	08.10.2020 10:01
Lab Sample Id:	669581-008	Date Collected:	08.06.2020 00:00	Sample Depth:	7 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.10.2020 12:50	Basis:	Wet Weight
Seq Number:	3134090				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**62.2**	49.9	mg/kg	08.10.2020 14:36		10

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.10.2020 12:00	Basis:	Wet Weight
Seq Number:	3134154				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.10.2020 21:19	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.10.2020 21:19	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.10.2020 21:19	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.10.2020 21:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-130	08.10.2020 21:19	
o-Terphenyl	84-15-1	97	%	70-130	08.10.2020 21:19	

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Certificate of Analytical Results 669581

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**SP4FSB @ 7'**	Matrix:	Soil	Date Received:	08.10.2020 10:01
Lab Sample Id:	669581-008	Date Collected:	08.06.2020 00:00	Sample Depth:	7 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	08.10.2020 13:00	Basis:	Wet Weight
Seq Number:	3134108				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.11.2020 07:16	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.11.2020 07:16	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.11.2020 07:16	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	08.11.2020 07:16	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.11.2020 07:16	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.11.2020 07:16	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.11.2020 07:16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	114	%	70-130	08.11.2020 07:16	
4-Bromofluorobenzene	460-00-4	109	%	70-130	08.11.2020 07:16	

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Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

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QC Summary 669581

Etech Environmental & Safety Solution, Inc

Hopi Federal #2

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3134090 — Matrix: Solid — Date Prep: 08.10.2020
MB Sample Id: 7709073-1-BLK — LCS Sample Id: 7709073-1-BKS — LCSD Sample Id: 7709073-1-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	264	106	264	106	90-110	0	20	mg/kg	08.10.2020 13:08	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3134090 — Matrix: Soil — Date Prep: 08.10.2020
Parent Sample Id: 669580-018 — MS Sample Id: 669580-018 S — MSD Sample Id: 669580-018 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	2160	1250	3480	106	3460	104	90-110	1	20	mg/kg	08.10.2020 13:27	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3134090 — Matrix: Soil — Date Prep: 08.10.2020
Parent Sample Id: 669583-002 — MS Sample Id: 669583-002 S — MSD Sample Id: 669583-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	10.3	248	271	105	268	104	90-110	1	20	mg/kg	08.10.2020 14:56	

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3134154 — Matrix: Solid — Date Prep: 08.10.2020
MB Sample Id: 7709123-1-BLK — LCS Sample Id: 7709123-1-BKS — LCSD Sample Id: 7709123-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	866	87	865	87	70-130	0	20	mg/kg	08.10.2020 12:18	
Diesel Range Organics (DRO)	<50.0	1000	927	93	849	85	70-130	9	20	mg/kg	08.10.2020 12:18	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	104		104		97		70-130	%	08.10.2020 12:18
o-Terphenyl	96		96		89		70-130	%	08.10.2020 12:18

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3134154 — Matrix: Solid — Date Prep: 08.10.2020
MB Sample Id: 7709123-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	08.10.2020 11:54	

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

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QC Summary 669581

Etech Environmental & Safety Solution, Inc

Hopi Federal #2

Analytical Method: **TPH By SW8015 Mod** Prep Method: SW8015P
Seq Number: 3134154 Matrix: Soil Date Prep: 08.10.2020
Parent Sample Id: 669576-001 MS Sample Id: 669576-001 S MSD Sample Id: 669576-001 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)	<50.0	999	811	81	792	79	70-130	2	20	mg/kg	08.10.2020 13:28	
Diesel Range Organics (DRO)	<50.0	999	838	84	779	78	70-130	7	20	mg/kg	08.10.2020 13:28	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	82		81		70-130	%	08.10.2020 13:28
o-Terphenyl	75		72		70-130	%	08.10.2020 13:28

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3134108 Matrix: Solid Date Prep: 08.10.2020
MB Sample Id: 7709136-1-BLK LCS Sample Id: 7709136-1-BKS LCSD Sample Id: 7709136-1-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	0.0795	80	0.0805	81	70-130	1	35	mg/kg	08.10.2020 21:46	
Toluene	<0.00200	0.100	0.0754	75	0.0790	79	70-130	5	35	mg/kg	08.10.2020 21:46	
Ethylbenzene	<0.00200	0.100	0.0757	76	0.0791	79	70-130	4	35	mg/kg	08.10.2020 21:46	
m,p-Xylenes	<0.00400	0.200	0.150	75	0.157	79	70-130	5	35	mg/kg	08.10.2020 21:46	
o-Xylene	<0.00200	0.100	0.0770	77	0.0807	81	70-130	5	35	mg/kg	08.10.2020 21:46	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	110		100		99		70-130	%	08.10.2020 21:46
4-Bromofluorobenzene	88		93		96		70-130	%	08.10.2020 21:46

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3134108 Matrix: Soil Date Prep: 08.10.2020
Parent Sample Id: 669577-001 MS Sample Id: 669577-001 S MSD Sample Id: 669577-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0994	0.0590	59	0.0543	55	70-130	8	35	mg/kg	08.10.2020 22:27	X
Toluene	0.00301	0.0994	0.0601	57	0.0558	53	70-130	7	35	mg/kg	08.10.2020 22:27	X
Ethylbenzene	<0.00199	0.0994	0.0584	59	0.0535	54	70-130	9	35	mg/kg	08.10.2020 22:27	X
m,p-Xylenes	<0.00398	0.199	0.117	59	0.107	54	70-130	9	35	mg/kg	08.10.2020 22:27	X
o-Xylene	<0.00199	0.0994	0.0600	60	0.0550	55	70-130	9	35	mg/kg	08.10.2020 22:27	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		103		70-130	%	08.10.2020 22:27
4-Bromofluorobenzene	100		98		70-130	%	08.10.2020 22:27

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

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: 20E0595 81

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Project Manager:	Joel Lowry	Bill to: (if different)	Teffanie Fawks
Company Name:	Etech Environmental and Safety	Company Name:	Endeavor
Address:	3100 Plains Hwy	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378 Email:	Email Results to: PM@etechenv.com + Client	

Work Order Comments

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

Project Name:	Hopi Federal #2	Turn Around	
Project Number:	12289	Routine: ☐	
Project Location	Eddy County, NM	Rush: [X]	
Sampler's Name:	Eric Mojica	Due Date: ASAP	
PO #:			

SAMPLE RECEIPT			
Temperature (°C):	0.0 / 0.8	Temp Blank: Yes / No	Wet Ice: Yes / No
Received Intact:	Yes / No	Thermometer ID	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	
Sample Custody Seals:	Yes No N/A	Total Containers:	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	BTEX (8021)	TPH (Modified Ext.)	Cl- (E300)
NW1	Soil	8/5/2020			1/NO	X	X	X
SW1	Soil	8/5/2020			1/NO	X	X	X
SW2	Soil	8/5/2020			1/NO	X	X	X
SW3	Soil	8/6/2020			1/NO	X	X	X
BWHS @ 5'	Soil	8/6/2020		5'	1/NO	X	X	X
SP4FS @ 5'	Soil	8/5/2020		5'	1/NO	X	X	X
SP4FSA @ 5'	Soil	8/5/2020		5'	1/NO	X	X	X
SP4FSB @ 7'	Soil	8/6/2020		7'	1/NO	X	X	X

ANALYSIS REQUEST

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 Comments

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

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			2 43/8 7:25	2		8/10
3				4		1081
5				6		

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 08.10.2020 10.01.00 AM

Work Order #: 669581

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

Temperature Measuring device used : IR-8

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	.2	
#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**	BTEX was in bulk container
#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: 08.10.2020
Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 08.10.2020
Jessica Kramer

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Certificate of Analysis Summary 669772

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Hopi Federal #2

Project Id: 12289
Contact: PM
Project Location: Eddy County, NM

Date Received in Lab: Wed 08.12.2020 11:20
Report Date: 08.13.2020 15:27
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	669772-001		669772-002		669772-003		669772-004		669772-005		669772-006	
	Field Id:	SP #5 @ 2'		SP #6 @ 4'		SP #7 @ 4'		NW #1		NW #2		EW #1	
	Depth:	2- ft		4- ft		4- ft							
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	08.10.2020 00:00		08.10.2020 00:00		08.10.2020 00:00		08.10.2020 00:00		08.10.2020 00:00		08.10.2020 00:00	
BTEX by EPA 8021B	***Extracted:***	08.12.2020 12:00		08.12.2020 12:00		08.12.2020 12:00		08.12.2020 12:00		08.12.2020 13:00		08.12.2020 12:00	
	Analyzed:	08.12.2020 14:39		08.12.2020 15:00		08.12.2020 15:21		08.12.2020 15:41		08.12.2020 20:50		08.12.2020 17:24	
	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	<0.00200	0.00200	0.00226	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Toluene		0.00257	0.00200	<0.00200	0.00200	0.00369	0.00200	0.00407	0.00200	<0.00199	0.00199	0.00215	0.00200
Ethylbenzene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
m,p-Xylenes		<0.00400	0.00400	<0.00400	0.00400	<0.00400	0.00400	<0.00400	0.00400	<0.00398	0.00398	<0.00400	0.00400
o-Xylene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Total Xylenes		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Total BTEX		0.00257	0.00200	<0.00200	0.00200	0.00595	0.00200	0.00407	0.00200	<0.00199	0.00199	0.00215	0.00200
Chloride by EPA 300	***Extracted:***	08.12.2020 14:10		08.12.2020 14:10		08.12.2020 14:10		08.12.2020 14:10		08.12.2020 14:10		08.12.2020 14:10	
	Analyzed:	08.12.2020 15:36		08.12.2020 15:41		08.12.2020 15:47		08.12.2020 15:52		08.12.2020 16:08		08.12.2020 16:13	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		280	49.9	50.6	49.6	216	50.5	424	4.97	112	50.3	347	49.8
TPH By SW8015 Mod	***Extracted:***	08.12.2020 17:00		08.12.2020 17:00		08.12.2020 17:00		08.12.2020 17:00		08.12.2020 17:00		08.12.2020 17:00	
	Analyzed:	08.12.2020 22:47		08.12.2020 23:51		08.13.2020 00:13		08.13.2020 00:34		08.13.2020 00:56		08.13.2020 01:17	
	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	<49.8	49.8	<50.0	50.0	<49.9	49.9
Diesel Range Organics (DRO)		<49.9	49.9	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0	<49.9	49.9
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0	<49.9	49.9
Total TPH		<49.9	49.9	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0	<49.9	49.9

BRL - Below Reporting Limit

Jessica Kramer

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Certificate of Analysis Summary 669772

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Hopi Federal #2

Project Id: 12289
Contact: PM
Project Location: Eddy County, NM

Date Received in Lab: Wed 08.12.2020 11:20
Report Date: 08.13.2020 15:27
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	669772-007		669772-008		669772-009		669772-010		669772-011		669772-012	
	Field Id:	SW#1		WW #1		NWHB @ 4'		BWHSB @1'		WWPJB		NWWB	
	Depth:					4- ft		1- ft					
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	08.10.2020 00:00		08.10.2020 00:00		08.10.2020 00:00		08.10.2020 00:00		08.10.2020 00:00		08.10.2020 00:00	
BTEX by EPA 8021B	***Extracted:***	08.12.2020 13:00		08.12.2020 13:00		08.12.2020 13:00		08.12.2020 13:00		08.12.2020 13:00		08.12.2020 13:00	
	Analyzed:	08.12.2020 21:10		08.12.2020 21:31		08.12.2020 21:51		08.12.2020 22:12		08.12.2020 22:32		08.12.2020 22:53	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00199	0.00199	<0.00201	0.00201	<0.00198	0.00198	<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199
Toluene		<0.00199	0.00199	<0.00201	0.00201	0.00237	0.00198	<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199
Ethylbenzene		<0.00199	0.00199	<0.00201	0.00201	<0.00198	0.00198	<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199
m,p-Xylenes		<0.00398	0.00398	<0.00402	0.00402	<0.00396	0.00396	<0.00399	0.00399	<0.00402	0.00402	<0.00398	0.00398
o-Xylene		<0.00199	0.00199	<0.00201	0.00201	<0.00198	0.00198	<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199
Total Xylenes		<0.00199	0.00199	<0.00201	0.00201	<0.00198	0.00198	<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199
Total BTEX		<0.00199	0.00199	<0.00201	0.00201	0.00237	0.00198	<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199
Chloride by EPA 300	***Extracted:***	08.12.2020 14:10		08.12.2020 14:10		08.12.2020 14:10		08.12.2020 14:10		08.12.2020 14:10		08.12.2020 14:10	
	Analyzed:	08.12.2020 16:29		08.12.2020 16:34		08.12.2020 16:39		08.12.2020 16:45		08.12.2020 16:50		08.12.2020 16:55	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		171	49.6	163	50.0	375	49.5	518	50.2	392	49.8	257	50.0
TPH By SW8015 Mod	***Extracted:***	08.12.2020 17:00		08.12.2020 17:00		08.12.2020 17:00		08.12.2020 17:00		08.12.2020 17:00		08.12.2020 17:00	
	Analyzed:	08.13.2020 01:39		08.13.2020 02:00		08.13.2020 02:22		08.13.2020 02:43		08.13.2020 03:26		08.13.2020 03:47	
	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	<50.0	50.0	<50.0	50.0	<49.9	49.9
Diesel Range Organics (DRO)		<50.0	50.0	<49.9	49.9	<50.0	50.0	<50.0	50.0	<50.0	50.0	<49.9	49.9
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<49.9	49.9	<50.0	50.0	<50.0	50.0	<50.0	50.0	<49.9	49.9
Total TPH		<50.0	50.0	<49.9	49.9	<50.0	50.0	<50.0	50.0	<50.0	50.0	<49.9	49.9

BRL - Below Reporting Limit

Jessica Kramer

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Analytical Report 669772

for

Etech Environmental & Safety Solution, Inc

Project Manager: PM

Hopi Federal #2

12289

08.13.2020

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-36), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-25), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-7)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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08.13.2020

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

Reference: Eurofins Xenco, LLC Report No(s): **669772**
Hopi Federal #2
Project Address: Eddy County, NM

PM :

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 669772. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 669772 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

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

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Sample Cross Reference 669772

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SP #5 @ 2'	S	08.10.2020 00:00	2 ft	669772-001
SP #6 @ 4'	S	08.10.2020 00:00	4 ft	669772-002
SP #7 @ 4'	S	08.10.2020 00:00	4 ft	669772-003
NW #1	S	08.10.2020 00:00		669772-004
NW #2	S	08.10.2020 00:00		669772-005
EW #1	S	08.10.2020 00:00		669772-006
SW#1	S	08.10.2020 00:00		669772-007
WW #1	S	08.10.2020 00:00		669772-008
NWHB @ 4'	S	08.10.2020 00:00	4 ft	669772-009
BWHSB @1'	S	08.10.2020 00:00	1 ft	669772-010
WWPJB	S	08.10.2020 00:00		669772-011
NWWB	S	08.10.2020 00:00		669772-012

CASE NARRATIVE

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Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Hopi Federal #2

Project ID: *12289*
Work Order Number(s): *669772*

Report Date: *08.13.2020*
Date Received: *08.12.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 669772

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**SP #5 @ 2'**	Matrix:	Soil	Date Received:	08.12.2020 11:20
Lab Sample Id:	669772-001	Date Collected:	08.10.2020 00:00	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	08.12.2020 14:10	Basis:	Wet Weight
Seq Number:	3134375				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**280**	49.9	mg/kg	08.12.2020 15:36		10

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.12.2020 17:00	Basis:	Wet Weight
Seq Number:	3134439				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.12.2020 22:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.12.2020 22:47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.12.2020 22:47	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.12.2020 22:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-130	08.12.2020 22:47	
o-Terphenyl	84-15-1	104	%	70-130	08.12.2020 22:47	

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Certificate of Analytical Results 669772

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**SP #5 @ 2'**	Matrix:	Soil	Date Received:	08.12.2020 11:20
Lab Sample Id:	669772-001	Date Collected:	08.10.2020 00:00	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	08.12.2020 12:00	Basis:	Wet Weight
Seq Number:	3134344				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.12.2020 14:39	U	1
Toluene	108-88-3	**0.00257**	0.00200	mg/kg	08.12.2020 14:39		1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.12.2020 14:39	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	08.12.2020 14:39	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.12.2020 14:39	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.12.2020 14:39	U	1
Total BTEX		**0.00257**	0.00200	mg/kg	08.12.2020 14:39		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	98	%	70-130	08.12.2020 14:39	
1,4-Difluorobenzene	540-36-3	116	%	70-130	08.12.2020 14:39	

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Certificate of Analytical Results 669772

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**SP #6 @ 4'**	Matrix:	Soil	Date Received:	08.12.2020 11:20
Lab Sample Id:	669772-002	Date Collected:	08.10.2020 00:00	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	08.12.2020 14:10	Basis:	Wet Weight
Seq Number:	3134375				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**50.6**	49.6	mg/kg	08.12.2020 15:41		10

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.12.2020 17:00	Basis:	Wet Weight
Seq Number:	3134439				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.12.2020 23:51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.12.2020 23:51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.12.2020 23:51	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.12.2020 23:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-130	08.12.2020 23:51	
o-Terphenyl	84-15-1	109	%	70-130	08.12.2020 23:51	

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Certificate of Analytical Results 669772

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**SP #6 @ 4'**	Matrix:	Soil	Date Received:	08.12.2020 11:20
Lab Sample Id:	669772-002	Date Collected:	08.10.2020 00:00	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	08.12.2020 12:00	Basis:	Wet Weight
Seq Number:	3134344				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.12.2020 15:00	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.12.2020 15:00	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.12.2020 15:00	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	08.12.2020 15:00	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.12.2020 15:00	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.12.2020 15:00	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.12.2020 15:00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	104	%	70-130	08.12.2020 15:00	
1,4-Difluorobenzene	540-36-3	118	%	70-130	08.12.2020 15:00	

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Certificate of Analytical Results 669772

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**SP #7 @ 4'**	Matrix:	Soil	Date Received:	08.12.2020 11:20
Lab Sample Id:	669772-003	Date Collected:	08.10.2020 00:00	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	08.12.2020 14:10	Basis:	Wet Weight
Seq Number:	3134375				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**216**	50.5	mg/kg	08.12.2020 15:47		10

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.12.2020 17:00	Basis:	Wet Weight
Seq Number:	3134439				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.13.2020 00:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.13.2020 00:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.13.2020 00:13	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.13.2020 00:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	117	%	70-130	08.13.2020 00:13	
o-Terphenyl	84-15-1	112	%	70-130	08.13.2020 00:13	

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Hopi Federal #2

Sample Id:	**SP #7 @ 4'**	Matrix:	Soil	Date Received:	08.12.2020 11:20
Lab Sample Id:	669772-003	Date Collected:	08.10.2020 00:00	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	08.12.2020 12:00	Basis:	Wet Weight
Seq Number:	3134344				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.00226**	0.00200	mg/kg	08.12.2020 15:21		1
Toluene	108-88-3	**0.00369**	0.00200	mg/kg	08.12.2020 15:21		1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.12.2020 15:21	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	08.12.2020 15:21	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.12.2020 15:21	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.12.2020 15:21	U	1
Total BTEX		**0.00595**	0.00200	mg/kg	08.12.2020 15:21		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	119	%	70-130	08.12.2020 15:21	
4-Bromofluorobenzene	460-00-4	101	%	70-130	08.12.2020 15:21	

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Hopi Federal #2

Sample Id: **NW #1** Matrix: Soil Date Received:08.12.2020 11:20

Lab Sample Id: 669772-004 Date Collected: 08.10.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC % Moisture:

Analyst: SPC Date Prep: 08.12.2020 14:10 Basis: Wet Weight

Seq Number: 3134375

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**424**	4.97	mg/kg	08.12.2020 15:52		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.12.2020 17:00 Basis: Wet Weight

Seq Number: 3134439

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	08.13.2020 00:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	08.13.2020 00:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	08.13.2020 00:34	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	08.13.2020 00:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-130	08.13.2020 00:34	
o-Terphenyl	84-15-1	110	%	70-130	08.13.2020 00:34	

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Hopi Federal #2

Sample Id:	**NW #1**	Matrix:	Soil	Date Received:	08.12.2020 11:20
Lab Sample Id:	669772-004	Date Collected:	08.10.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	08.12.2020 12:00	Basis:	Wet Weight
Seq Number:	3134344				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.12.2020 15:41	U	1
Toluene	108-88-3	**0.00407**	0.00200	mg/kg	08.12.2020 15:41		1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.12.2020 15:41	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	08.12.2020 15:41	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.12.2020 15:41	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.12.2020 15:41	U	1
Total BTEX		**0.00407**	0.00200	mg/kg	08.12.2020 15:41		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	118	%	70-130	08.12.2020 15:41	
4-Bromofluorobenzene	460-00-4	105	%	70-130	08.12.2020 15:41	

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Hopi Federal #2

Sample Id: **NW #2** Matrix: Soil Date Received:08.12.2020 11:20

Lab Sample Id: 669772-005 Date Collected: 08.10.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC % Moisture:

Analyst: SPC Date Prep: 08.12.2020 14:10 Basis: Wet Weight

Seq Number: 3134375

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**112**	50.3	mg/kg	08.12.2020 16:08		10

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.12.2020 17:00 Basis: Wet Weight

Seq Number: 3134439

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.13.2020 00:56	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.13.2020 00:56	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.13.2020 00:56	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.13.2020 00:56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	117	%	70-130	08.13.2020 00:56	
o-Terphenyl	84-15-1	111	%	70-130	08.13.2020 00:56	

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Hopi Federal #2

Sample Id:	**NW #2**	Matrix:	Soil	Date Received:	08.12.2020 11:20
Lab Sample Id:	669772-005	Date Collected:	08.10.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.12.2020 13:00	Basis:	Wet Weight
Seq Number:	3134385				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.12.2020 20:50	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.12.2020 20:50	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.12.2020 20:50	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.12.2020 20:50	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.12.2020 20:50	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.12.2020 20:50	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.12.2020 20:50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	115	%	70-130	08.12.2020 20:50	
4-Bromofluorobenzene	460-00-4	120	%	70-130	08.12.2020 20:50	

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Hopi Federal #2

Sample Id: **EW #1** Matrix: Soil Date Received:08.12.2020 11:20

Lab Sample Id: 669772-006 Date Collected: 08.10.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC % Moisture:

Analyst: SPC Date Prep: 08.12.2020 14:10 Basis: Wet Weight

Seq Number: 3134375

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**347**	49.8	mg/kg	08.12.2020 16:13		10

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.12.2020 17:00 Basis: Wet Weight

Seq Number: 3134439

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.13.2020 01:17	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.13.2020 01:17	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.13.2020 01:17	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.13.2020 01:17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-130	08.13.2020 01:17	
o-Terphenyl	84-15-1	110	%	70-130	08.13.2020 01:17	

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Hopi Federal #2

Sample Id:	**EW #1**	Matrix:	Soil	Date Received:	08.12.2020 11:20
Lab Sample Id:	669772-006	Date Collected:	08.10.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	08.12.2020 12:00	Basis:	Wet Weight
Seq Number:	3134344				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.12.2020 17:24	U	1
Toluene	108-88-3	**0.00215**	0.00200	mg/kg	08.12.2020 17:24		1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.12.2020 17:24	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	08.12.2020 17:24	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.12.2020 17:24	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.12.2020 17:24	U	1
Total BTEX		**0.00215**	0.00200	mg/kg	08.12.2020 17:24		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	106	%	70-130	08.12.2020 17:24	
1,4-Difluorobenzene	540-36-3	115	%	70-130	08.12.2020 17:24	

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Hopi Federal #2

Sample Id: **SW#1** Matrix: Soil Date Received:08.12.2020 11:20

Lab Sample Id: 669772-007 Date Collected: 08.10.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC % Moisture:

Analyst: SPC Date Prep: 08.12.2020 14:10 Basis: Wet Weight

Seq Number: 3134375

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**171**	49.6	mg/kg	08.12.2020 16:29		10

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.12.2020 17:00 Basis: Wet Weight

Seq Number: 3134439

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.13.2020 01:39	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.13.2020 01:39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.13.2020 01:39	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.13.2020 01:39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-130	08.13.2020 01:39	
o-Terphenyl	84-15-1	107	%	70-130	08.13.2020 01:39	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**SW#1**	Matrix:	Soil	Date Received:	08.12.2020 11:20
Lab Sample Id:	669772-007	Date Collected:	08.10.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.12.2020 13:00	Basis:	Wet Weight
Seq Number:	3134385				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.12.2020 21:10	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.12.2020 21:10	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.12.2020 21:10	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.12.2020 21:10	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.12.2020 21:10	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.12.2020 21:10	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.12.2020 21:10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	116	%	70-130	08.12.2020 21:10	
1,4-Difluorobenzene	540-36-3	117	%	70-130	08.12.2020 21:10	

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Hopi Federal #2

Sample Id: **WW #1** Matrix: Soil Date Received:08.12.2020 11:20

Lab Sample Id: 669772-008 Date Collected: 08.10.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC % Moisture:

Analyst: SPC Date Prep: 08.12.2020 14:10 Basis: Wet Weight

Seq Number: 3134375

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**163**	50.0	mg/kg	08.12.2020 16:34		10

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.12.2020 17:00 Basis: Wet Weight

Seq Number: 3134439

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.13.2020 02:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.13.2020 02:00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.13.2020 02:00	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.13.2020 02:00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-130	08.13.2020 02:00	
o-Terphenyl	84-15-1	107	%	70-130	08.13.2020 02:00	

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Hopi Federal #2

Sample Id:	**WW #1**	Matrix:	Soil	Date Received:	08.12.2020 11:20
Lab Sample Id:	669772-008	Date Collected:	08.10.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.12.2020 13:00	Basis:	Wet Weight
Seq Number:	3134385				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	08.12.2020 21:31	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	08.12.2020 21:31	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	08.12.2020 21:31	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	08.12.2020 21:31	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	08.12.2020 21:31	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	08.12.2020 21:31	U	1
Total BTEX		<0.00201	0.00201	mg/kg	08.12.2020 21:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	119	%	70-130	08.12.2020 21:31	
1,4-Difluorobenzene	540-36-3	114	%	70-130	08.12.2020 21:31	

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Hopi Federal #2

Sample Id:	**NWHB @ 4'**	Matrix:	Soil	Date Received:	08.12.2020 11:20
Lab Sample Id:	669772-009	Date Collected:	08.10.2020 00:00	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	08.12.2020 14:10	Basis:	Wet Weight
Seq Number:	3134375				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**375**	49.5	mg/kg	08.12.2020 16:39		10

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.12.2020 17:00	Basis:	Wet Weight
Seq Number:	3134439				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.13.2020 02:22	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.13.2020 02:22	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.13.2020 02:22	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.13.2020 02:22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-130	08.13.2020 02:22	
o-Terphenyl	84-15-1	104	%	70-130	08.13.2020 02:22	

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Hopi Federal #2

Sample Id:	**NWHB @ 4'**	Matrix:	Soil	Date Received:	08.12.2020 11:20
Lab Sample Id:	669772-009	Date Collected:	08.10.2020 00:00	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.12.2020 13:00	Basis:	Wet Weight
Seq Number:	3134385				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	08.12.2020 21:51	U	1
Toluene	108-88-3	**0.00237**	0.00198	mg/kg	08.12.2020 21:51		1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	08.12.2020 21:51	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	08.12.2020 21:51	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	08.12.2020 21:51	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	08.12.2020 21:51	U	1
Total BTEX		**0.00237**	0.00198	mg/kg	08.12.2020 21:51		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	120	%	70-130	08.12.2020 21:51	
1,4-Difluorobenzene	540-36-3	113	%	70-130	08.12.2020 21:51	

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Hopi Federal #2

Sample Id:	**BWHSB @1'**	Matrix:	Soil	Date Received:	08.12.2020 11:20
Lab Sample Id:	669772-010	Date Collected:	08.10.2020 00:00	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	08.12.2020 14:10	Basis:	Wet Weight
Seq Number:	3134375				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**518**	50.2	mg/kg	08.12.2020 16:45		10

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.12.2020 17:00	Basis:	Wet Weight
Seq Number:	3134439				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.13.2020 02:43	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.13.2020 02:43	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.13.2020 02:43	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.13.2020 02:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-130	08.13.2020 02:43	
o-Terphenyl	84-15-1	110	%	70-130	08.13.2020 02:43	

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Certificate of Analytical Results 669772

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**BWHSB @1'**	Matrix:	Soil	Date Received:	08.12.2020 11:20
Lab Sample Id:	669772-010	Date Collected:	08.10.2020 00:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.12.2020 13:00	Basis:	Wet Weight
Seq Number:	3134385				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.12.2020 22:12	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.12.2020 22:12	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.12.2020 22:12	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	08.12.2020 22:12	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.12.2020 22:12	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.12.2020 22:12	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.12.2020 22:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	106	%	70-130	08.12.2020 22:12	
1,4-Difluorobenzene	540-36-3	115	%	70-130	08.12.2020 22:12	

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Certificate of Analytical Results 669772

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id: **WWPJB** Matrix: Soil Date Received:08.12.2020 11:20

Lab Sample Id: 669772-011 Date Collected: 08.10.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC % Moisture:

Analyst: SPC Date Prep: 08.12.2020 14:10 Basis: Wet Weight

Seq Number: 3134375

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**392**	49.8	mg/kg	08.12.2020 16:50		10

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.12.2020 17:00 Basis: Wet Weight

Seq Number: 3134439

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.13.2020 03:26	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.13.2020 03:26	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.13.2020 03:26	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.13.2020 03:26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-130	08.13.2020 03:26	
o-Terphenyl	84-15-1	105	%	70-130	08.13.2020 03:26	

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Certificate of Analytical Results 669772

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**WWPJB**	Matrix:	Soil	Date Received:	08.12.2020 11:20
Lab Sample Id:	669772-011	Date Collected:	08.10.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.12.2020 13:00	Basis:	Wet Weight
Seq Number:	3134385				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	08.12.2020 22:32	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	08.12.2020 22:32	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	08.12.2020 22:32	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	08.12.2020 22:32	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	08.12.2020 22:32	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	08.12.2020 22:32	U	1
Total BTEX		<0.00201	0.00201	mg/kg	08.12.2020 22:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	116	%	70-130	08.12.2020 22:32	
4-Bromofluorobenzene	460-00-4	101	%	70-130	08.12.2020 22:32	

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Certificate of Analytical Results 669772

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id: **NWWB** Matrix: Soil Date Received:08.12.2020 11:20

Lab Sample Id: 669772-012 Date Collected: 08.10.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC % Moisture:

Analyst: SPC Date Prep: 08.12.2020 14:10 Basis: Wet Weight

Seq Number: 3134375

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**257**	50.0	mg/kg	08.12.2020 16:55		10

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.12.2020 17:00 Basis: Wet Weight

Seq Number: 3134439

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.13.2020 03:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.13.2020 03:47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.13.2020 03:47	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.13.2020 03:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-130	08.13.2020 03:47	
o-Terphenyl	84-15-1	106	%	70-130	08.13.2020 03:47	

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Certificate of Analytical Results 669772

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi Federal #2

Sample Id:	**NWWB**	Matrix:	Soil	Date Received:	08.12.2020 11:20
Lab Sample Id:	669772-012	Date Collected:	08.10.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.12.2020 13:00	Basis:	Wet Weight
Seq Number:	3134385				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.12.2020 22:53	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.12.2020 22:53	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.12.2020 22:53	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.12.2020 22:53	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.12.2020 22:53	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.12.2020 22:53	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.12.2020 22:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	114	%	70-130	08.12.2020 22:53	
4-Bromofluorobenzene	460-00-4	114	%	70-130	08.12.2020 22:53	

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Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

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QC Summary 669772

Etech Environmental & Safety Solution, Inc

Hopi Federal #2

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3134375 — Matrix: Solid — Date Prep: 08.12.2020
MB Sample Id: 7709276-1-BLK — LCS Sample Id: 7709276-1-BKS — LCSD Sample Id: 7709276-1-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	264	106	264	106	90-110	0	20	mg/kg	08.12.2020 14:28	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3134375 — Matrix: Soil — Date Prep: 08.12.2020
Parent Sample Id: 669772-004 — MS Sample Id: 669772-004 S — MSD Sample Id: 669772-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	424	249	670	99	673	100	90-110	0	20	mg/kg	08.12.2020 15:57	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3134375 — Matrix: Soil — Date Prep: 08.12.2020
Parent Sample Id: 669781-021 — MS Sample Id: 669781-021 S — MSD Sample Id: 669781-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	219	250	475	102	479	104	90-110	1	20	mg/kg	08.12.2020 14:43	

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3134439 — Matrix: Solid — Date Prep: 08.12.2020
MB Sample Id: 7709338-1-BLK — LCS Sample Id: 7709338-1-BKS — LCSD Sample Id: 7709338-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	997	100	939	94	70-130	6	20	mg/kg	08.12.2020 22:03	
Diesel Range Organics (DRO)	<50.0	1000	997	100	955	96	70-130	4	20	mg/kg	08.12.2020 22:03	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	120		127		121		70-130	%	08.12.2020 22:03
o-Terphenyl	116		120		115		70-130	%	08.12.2020 22:03

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3134439 — Matrix: Solid — Date Prep: 08.12.2020
MB Sample Id: 7709338-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	08.12.2020 21:42	

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

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QC Summary 669772

Etech Environmental & Safety Solution, Inc

Hopi Federal #2

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3134439 — Matrix: Soil — Date Prep: 08.12.2020
Parent Sample Id: 669772-001 — MS Sample Id: 669772-001 S — MSD Sample Id: 669772-001 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)	<50.0	999	935	94	981	98	70-130	5	20	mg/kg	08.12.2020 23:08	
Diesel Range Organics (DRO)	<50.0	999	941	94	978	98	70-130	4	20	mg/kg	08.12.2020 23:08	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	114		120		70-130	%	08.12.2020 23:08
o-Terphenyl	106		110		70-130	%	08.12.2020 23:08

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3134344 — Matrix: Solid — Date Prep: 08.11.2020
MB Sample Id: 7709298-1-BLK — LCS Sample Id: 7709298-1-BKS — LCSD Sample Id: 7709298-1-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	0.106	106	0.0990	99	70-130	7	35	mg/kg	08.12.2020 07:29	
Toluene	<0.00200	0.100	0.104	104	0.0938	94	70-130	10	35	mg/kg	08.12.2020 07:29	
Ethylbenzene	<0.00200	0.100	0.103	103	0.0909	91	70-130	12	35	mg/kg	08.12.2020 07:29	
m,p-Xylenes	<0.00400	0.200	0.208	104	0.181	91	70-130	14	35	mg/kg	08.12.2020 07:29	
o-Xylene	<0.00200	0.100	0.104	104	0.0912	91	70-130	13	35	mg/kg	08.12.2020 07:29	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	107		99		100		70-130	%	08.12.2020 07:29
4-Bromofluorobenzene	98		106		98		70-130	%	08.12.2020 07:29

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3134385 — Matrix: Solid — Date Prep: 08.12.2020
MB Sample Id: 7709350-1-BLK — LCS Sample Id: 7709350-1-BKS — LCSD Sample Id: 7709350-1-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	0.106	106	0.109	109	70-130	3	35	mg/kg	08.12.2020 18:26	
Toluene	<0.00200	0.100	0.0970	97	0.0984	98	70-130	1	35	mg/kg	08.12.2020 18:26	
Ethylbenzene	<0.00200	0.100	0.0939	94	0.0960	96	70-130	2	35	mg/kg	08.12.2020 18:26	
m,p-Xylenes	<0.00400	0.200	0.185	93	0.190	95	70-130	3	35	mg/kg	08.12.2020 18:26	
o-Xylene	<0.00200	0.100	0.0907	91	0.0944	94	70-130	4	35	mg/kg	08.12.2020 18:26	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	106		100		102		70-130	%	08.12.2020 18:26
4-Bromofluorobenzene	105		94		99		70-130	%	08.12.2020 18:26

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

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Etech Environmental & Safety Solution, Inc

Hopi Federal #2

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

Seq Number: 3134344 Matrix: Soil Date Prep: 08.11.2020

Parent Sample Id: 669583-008 MS Sample Id: 669583-008 S MSD Sample Id: 669583-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0844	84	0.0898	90	70-130	6	35	mg/kg	08.12.2020 08:10	
Toluene	<0.00200	0.100	0.0784	78	0.0844	84	70-130	7	35	mg/kg	08.12.2020 08:10	
Ethylbenzene	<0.00200	0.100	0.0742	74	0.0803	80	70-130	8	35	mg/kg	08.12.2020 08:10	
m,p-Xylenes	<0.00400	0.200	0.147	74	0.158	79	70-130	7	35	mg/kg	08.12.2020 08:10	
o-Xylene	<0.00200	0.100	0.0728	73	0.0781	78	70-130	7	35	mg/kg	08.12.2020 08:10	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		103		70-130	%	08.12.2020 08:10
4-Bromofluorobenzene	105		103		70-130	%	08.12.2020 08:10

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

Seq Number: 3134385 Matrix: Soil Date Prep: 08.12.2020

Parent Sample Id: 669772-005 MS Sample Id: 669772-005 S MSD Sample Id: 669772-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0912	91	0.0846	85	70-130	8	35	mg/kg	08.12.2020 19:08	
Toluene	<0.00200	0.100	0.0855	86	0.0774	78	70-130	10	35	mg/kg	08.12.2020 19:08	
Ethylbenzene	<0.00200	0.100	0.0835	84	0.0743	75	70-130	12	35	mg/kg	08.12.2020 19:08	
m,p-Xylenes	<0.00400	0.200	0.167	84	0.146	73	70-130	13	35	mg/kg	08.12.2020 19:08	
o-Xylene	<0.00200	0.100	0.0818	82	0.0718	72	70-130	13	35	mg/kg	08.12.2020 19:08	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		101		70-130	%	08.12.2020 19:08
4-Bromofluorobenzene	102		95		70-130	%	08.12.2020 19:08

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

Chain of Custody

Work Order No: 1069772

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

Page i of 2

Project Manager:	Joel Lowry	Bill to: (if different)	
Company Name:	Etech Environmental & Safety	Company Name:	Endeavor
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@etechenv.com + Client

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:	Hopi Federal #2	Turn Around	
Project Number:	12289	Routine:	☑
Project Location	Eddy County, NM	Rush:	☐
Sampler's Name:	Miguel Ramirez	Due Date:	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	0.4 / 0.2	Thermometer ID		
Received Intact:	(Yes) No			
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:		
Sample Custody Seals:	Yes No (N/A)	Total Containers:		

ANALYSIS REQUEST

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	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005	Rush 1.1	Sample Comments
SP#5 @2'	Soil	8.10.20		2'	1	X	X	X		X	
SP#6 @4'	Soil	8.10.20		4'	1	X	X	X		X	
SP#7 @4'	Soil	8.1020		4'	1	X	X	X		X	
NW#1	Soil	8.10.20		-	1	X	X	X		X	
NW#2	Soil	8.10.20		-	1	X	X	X		X	
EW#1	Soil	8.10.20		-	1	X	X	X		X	
SW#1	Soil	8.10.20		-	1	X	X	X		X	
WW#1	Soil	8.10.20		-	1	X	X	X		X	
NWHB @4'	Soil	8.10.20		4'	1	X	X	X		X	
BWHS @1'	Soil	8.10.20		1'	1	X	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

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Rush

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		8-11-20/3:28	2		8/12
3			4		
5			6		1120

Revised Date 101419 Rev 2019.1

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: 1Ue9772

www.xenco.com Page 2 of 2

Project Manager:	Joel Lowry	Bill to: (if different)	
Company Name:	Etech Environmental & Safety	Company Name:	Endeavor
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@etechenv.com + Client

Project Name:	Hopi Federal #2
Project Number:	20289
Project Location	Eddy County, NM
Sampler's Name:	Miguel Ramirez
PO #:	

Turn Around: Routine: ☑ Rush: ☐ Due Date:

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:

SAMPLE RECEIPT				
Temperature (°C):	0.0/0.2	Temp Blank: Yes (No)	Wet Ice: (Yes) No	
Received Intact:	(Yes) No	Thermometer ID		
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:		
Sample Custody Seals:	Yes No (N/A)	Total Containers:		

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005	TPH TX1005 Ext R45 41
WWPTB	Soil	8-10-20		-	1	X	X	X		X
NWWB	Soil	8-10-20		-	1	X	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

Sample Comments

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

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

Revised Date 10.14.19 Rev. 2019.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 08.12.2020 11.20.00 AM

Work Order #: 669772

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

Temperature Measuring device used : IR-8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	.2
#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: 08.12.2020

Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 08.12.2020

Jessica Kramer

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Certificate of Analysis Summary 669861

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Hopi #2 Federal #2

Project Id: 12289
Contact: PM
Project Location: Eddy County, NM

Date Received in Lab: Wed 08.12.2020 13:53
Report Date: 08.13.2020 15:26
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	669861-001					
	Field Id:	SP4F5 @6'					
	Depth:	6- ft					
	Matrix:	SOIL					
	Sampled:	08.12.2020 00:00					
BTEX by EPA 8021B	***Extracted:***	08.12.2020 16:19					
	Analyzed:	08.12.2020 21:28					
	Units/RL:	mg/kg RL					
Benzene		<0.00198 0.00198					
Toluene		<0.00198 0.00198					
Ethylbenzene		<0.00198 0.00198					
m,p-Xylenes		<0.00396 0.00396					
o-Xylene		<0.00198 0.00198					
Total Xylenes		<0.00198 0.00198					
Total BTEX		<0.00198 0.00198					
Chloride by EPA 300	***Extracted:***	08.12.2020 17:41					
	Analyzed:	08.12.2020 21:59					
	Units/RL:	mg/kg RL					
Chloride		152 50.2					
TPH By SW8015 Mod	***Extracted:***	08.12.2020 17:30					
	Analyzed:	08.13.2020 09:46					
	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					

BRL - Below Reporting Limit

Jessica Kramer

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

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Analytical Report 669861

for

Etech Environmental & Safety Solution, Inc

Project Manager: PM

Hopi #2 Federal #2

12289

08.13.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-36), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-25), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-7)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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08.13.2020

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

Reference: Eurofins Xenco, LLC Report No(s): **669861**
Hopi #2 Federal #2
Project Address: Eddy County, NM

PM :

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 669861. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 669861 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

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

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Sample Cross Reference 669861

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi #2 Federal #2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SP4F5 @6'	S	08.12.2020 00:00	6 ft	669861-001

CASE NARRATIVE

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Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Hopi #2 Federal #2

Project ID: *12289*
Work Order Number(s): *669861*

Report Date: *08.13.2020*
Date Received: *08.12.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 669861

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi #2 Federal #2

Sample Id: **SP4F5 @6'** Matrix: Soil Date Received:08.12.2020 13:53

Lab Sample Id: 669861-001 Date Collected: 08.12.2020 00:00 Sample Depth: 6 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CAC % Moisture:

Analyst: MAB Date Prep: 08.12.2020 17:41 Basis: Wet Weight

Seq Number: 3134401

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**152**	50.2	mg/kg	08.12.2020 21:59		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DTH % Moisture:

Analyst: DTH Date Prep: 08.12.2020 17:30 Basis: Wet Weight

Seq Number: 3134417

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.13.2020 09:46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.13.2020 09:46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.13.2020 09:46	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.13.2020 09:46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-135	08.13.2020 09:46	
o-Terphenyl	84-15-1	111	%	70-135	08.13.2020 09:46	

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Certificate of Analytical Results 669861

Etech Environmental & Safety Solution, Inc, Midland, TX

Hopi #2 Federal #2

Sample Id:	**SP4F5 @6'**	Matrix:	Soil	Date Received:	08.12.2020 13:53
Lab Sample Id:	669861-001	Date Collected:	08.12.2020 00:00	Sample Depth:	6 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	CAC			% Moisture:	
Analyst:	MAB	Date Prep:	08.12.2020 16:19	Basis:	Wet Weight
Seq Number:	3134380				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	08.12.2020 21:28	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	08.12.2020 21:28	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	08.12.2020 21:28	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	08.12.2020 21:28	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	08.12.2020 21:28	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	08.12.2020 21:28	U	1
Total BTEX		<0.00198	0.00198	mg/kg	08.12.2020 21:28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	98	%	70-130	08.12.2020 21:28	
4-Bromofluorobenzene	460-00-4	103	%	70-130	08.12.2020 21:28	

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Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

QC Summary 669861

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Etech Environmental & Safety Solution, Inc

Hopi #2 Federal #2

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3134401 — Matrix: Solid — Date Prep: 08.12.2020
MB Sample Id: 7709320-1-BLK — LCS Sample Id: 7709320-1-BKS — LCSD Sample Id: 7709320-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	267	107	267	107	90-110	0	20	mg/kg	08.12.2020 20:35	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3134401 — Matrix: Soil — Date Prep: 08.12.2020
Parent Sample Id: 669856-011 — MS Sample Id: 669856-011 S — MSD Sample Id: 669856-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<9.98	200	210	105	210	105	90-110	0	20	mg/kg	08.12.2020 20:52	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3134401 — Matrix: Soil — Date Prep: 08.12.2020
Parent Sample Id: 669856-021 — MS Sample Id: 669856-021 S — MSD Sample Id: 669856-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	26.8	200	234	104	234	104	90-110	0	20	mg/kg	08.12.2020 22:16	

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3134417 — Matrix: Solid — Date Prep: 08.12.2020
MB Sample Id: 7709357-1-BLK — LCS Sample Id: 7709357-1-BKS — LCSD Sample Id: 7709357-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1000	100	988	99	70-135	1	35	mg/kg	08.13.2020 09:05	
Diesel Range Organics (DRO)	<50.0	1000	1050	105	1020	102	70-135	3	35	mg/kg	08.13.2020 09:05	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	117		129		125		70-135	%	08.13.2020 09:05
o-Terphenyl	114		116		112		70-135	%	08.13.2020 09:05

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3134417 — Matrix: Solid — Date Prep: 08.12.2020
MB Sample Id: 7709357-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	08.13.2020 11:47	

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 669861

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Etech Environmental & Safety Solution, Inc

Hopi #2 Federal #2

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3134417 — Matrix: Soil — Date Prep: 08.12.2020
Parent Sample Id: 669861-001 — MS Sample Id: 669861-001 S — MSD Sample Id: 669861-001 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)	<50.1	1000	998	100	983	98	70-135	2	35	mg/kg	08.13.2020 10:06	
Diesel Range Organics (DRO)	<50.1	1000	1020	102	1000	100	70-135	2	35	mg/kg	08.13.2020 10:06	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	131		128		70-135	%	08.13.2020 10:06
o-Terphenyl	123		119		70-135	%	08.13.2020 10:06

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3134380 — Matrix: Solid — Date Prep: 08.12.2020
MB Sample Id: 7709314-1-BLK — LCS Sample Id: 7709314-1-BKS — LCSD Sample Id: 7709314-1-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	0.0980	98	0.0997	100	70-130	2	35	mg/kg	08.12.2020 14:37	
Toluene	<0.00200	0.100	0.0936	94	0.0950	95	70-130	1	35	mg/kg	08.12.2020 14:37	
Ethylbenzene	<0.00200	0.100	0.100	100	0.0990	99	71-129	1	35	mg/kg	08.12.2020 14:37	
m,p-Xylenes	<0.00400	0.200	0.203	102	0.202	101	70-135	0	35	mg/kg	08.12.2020 14:37	
o-Xylene	<0.00200	0.100	0.101	101	0.0996	100	71-133	1	35	mg/kg	08.12.2020 14:37	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		95		100		70-130	%	08.12.2020 14:37
4-Bromofluorobenzene	106		98		97		70-130	%	08.12.2020 14:37

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3134380 — Matrix: Soil — Date Prep: 08.12.2020
Parent Sample Id: 669618-001 — MS Sample Id: 669618-001 S — MSD Sample Id: 669618-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00202	0.101	0.107	106	0.108	108	70-130	1	35	mg/kg	08.12.2020 15:17	
Toluene	<0.00202	0.101	0.102	101	0.104	104	70-130	2	35	mg/kg	08.12.2020 15:17	
Ethylbenzene	<0.00202	0.101	0.105	104	0.108	108	71-129	3	35	mg/kg	08.12.2020 15:17	
m,p-Xylenes	<0.00403	0.202	0.213	105	0.218	109	70-135	2	35	mg/kg	08.12.2020 15:17	
o-Xylene	<0.00202	0.101	0.105	104	0.108	108	71-133	3	35	mg/kg	08.12.2020 15:17	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		97		70-130	%	08.12.2020 15:17
4-Bromofluorobenzene	100		100		70-130	%	08.12.2020 15:17

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

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: 1e1e9826

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Project Manager:	Joel Lowry	Bill to: (if different)	
Company Name:	Etech Environmental & Safety	Company Name:	Endeavor
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@etechenv.com + Client

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:	Hopi #2 Federal #2	Turn Around	
Project Number:	12289	Routine:	☐
Project Location	Eddy county, NM	Rush:	24 ☒
Sampler's Name:	Miguel Ramirez	Due Date:	
PO #:			

SAMPLE RECEIPT			
Temperature (°C):	4.4/4.2	Temp Blank: (Yes) No	Wet Ice: (Yes) No
Received Intact:	(Yes) No	Thermometer ID	T-NM-007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Total Containers:	1

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005
SP4FS@6'	soil	8.12.20		6'	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

Sample Comments

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

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time		Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			8.12.20 1353	2			
3				4			
5				6			

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 08.12.2020 01.53.00 PM

Work Order #: 669861

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

Temperature Measuring device used : T-NM-007

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	4.2	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**	
#5 Custody Seals intact on sample bottles?	**Yes**	
#6*Custody Seals Signed and dated?	**Yes**	
#7 *Chain of Custody present?	**Yes**	
#8 Any missing/extra samples?	**No**	
#9 Chain of Custody signed when relinquished/ received?	**Yes**	
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**	
#11 Container label(s) legible and intact?	**Yes**	
#12 Samples in proper container/ bottle?	**Yes**	Samples received in bulk containers.
#13 Samples properly preserved?	**Yes**	
#14 Sample container(s) intact?	**Yes**	
#15 Sufficient sample amount for indicated test(s)?	**Yes**	
#16 All samples received within hold time?	**Yes**	
#17 Subcontract of sample(s)?	**No**	
#18 Water VOC samples have zero headspace?	**N/A**	

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

Analyst: PH Device/Lot#:

Checklist completed by: Elizabeth McClellan Date: 08.12.2020

Checklist reviewed by: Jessica Kramer Date: 08.12.2020

Jessica Kramer

Appendix D
Photographic Log

Photographic Log

Photo Number: 1	
Photo Direction: West	
Photo Description: Spill area south of pumpjack.	

Photo Number: 2	
Photo Direction: North	
Photo Description: Spill area northeast of pumpjack.	

Photographic Log

Photo Number: 3	
Photo Direction: North	
Photo Description: Spill area south and east of pumpjack.	

Photo Number: 4	
Photo Direction: Northeast	
Photo Description: Spill area east of pumpjack.	

Photographic Log

Photo Number: 5 **Photo Direction:** East **Photo Description:** Excavation around north side of pumpjack.	

Photo Number: 6 **Photo Direction:** East **Photo Description:** Excavation and spoils pile.	

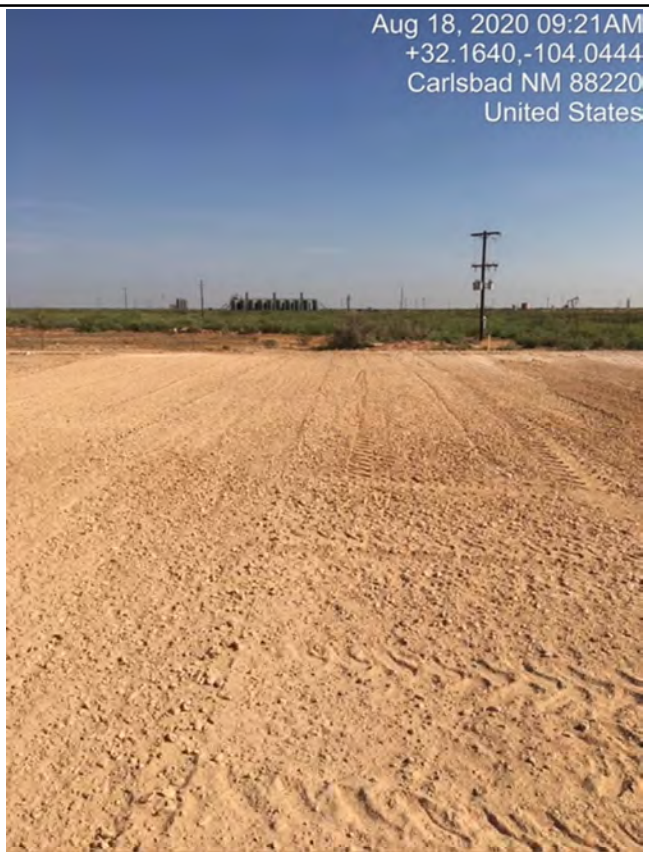
Photographic Log

Photo Number: 7	
Photo Direction: Northeast	
Photo Description: Excavation and spoils pile.	

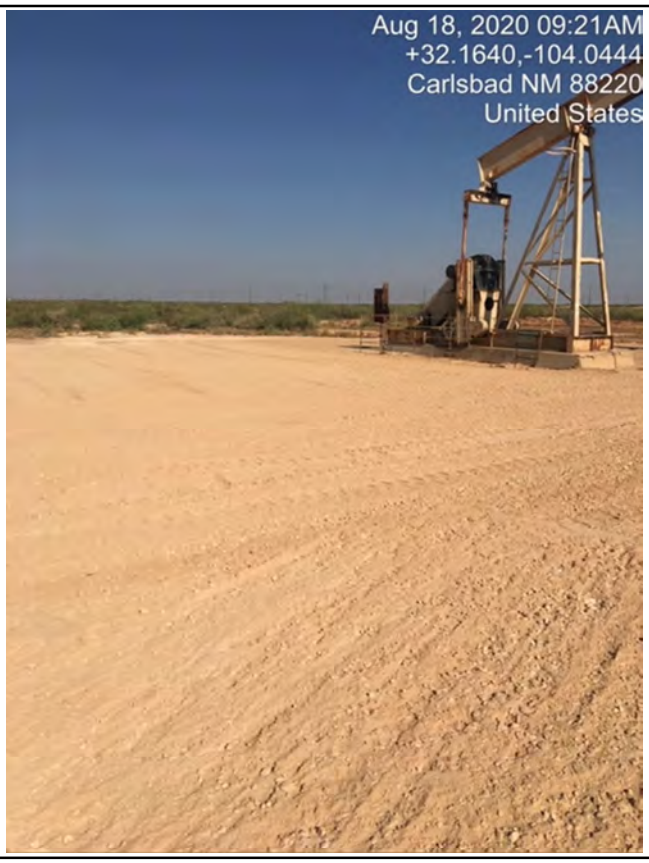
Photo Number: 8	
Photo Direction: West	
Photo Description: Excavation edge.	

Photographic Log

Photo Number: 9 **Photo Direction:** Northeast **Photo Description:** Excavation area after backfill and grading.	

Photo Number: 10 **Photo Direction:** North **Photo Description:** Excavation area after backfill and grading.	

Photographic Log

Photo Number: 11	
Photo Direction: Northwest	
Photo Description: Excavation area after backfill and grading.	