

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>~55</u> (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	
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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: Ralph Tijerina Title: EHS DirectorSignature: *Ralph Tijerina* Date: 08/03/2020email: rtijerina@goodnightmidstream.com Telephone: 214-587-4964**OCD Only**

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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

Printed Name: Ralph Tijerina Title: EHS Director
Signature: Ralph Tijerina Date: 08/03/2020
email: rtijerina@goodnightmidstream.com Telephone: 214-587-4964

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Remediation Summary and Deferral Request

Goodnight Midstream Permian, LLC Blueberry SWD

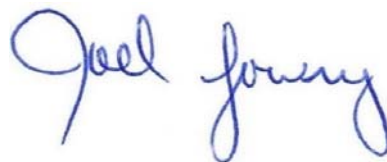
Lea County, New Mexico
Unit Letter P, Section 24, Township 21 South, Range 33 East
Latitude 32.45911 North, Longitude 103.519608 West
NMOCD Reference No. nRM2010753767

Prepared By:

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



Lance Crenshaw



Joel W. Lowry



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- Appendix D - Photographic Log

1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Goodnight Midstream Permian, LLC, has prepared this Remediation Summary and Deferral Request for the Release Site known as the Blueberry SWD. Details of the release are summarized below:

Location of Release Source

Latitude: 32.45911 Longitude: -103.519608

Provided GPS are in WGS84 format.

Site Name: <u>Blueberry SWD</u>	Site Type: <u>SWD</u>
Date Release Discovered: <u>4/14/2020</u>	API # (if applicable):

Unit Letter	Section	Township	Range	County
P	24	21S	33E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name Merchant Livestock)

Nature and Volume of Release

☒ Crude Oil	Volume Released (bbls) <u>96.64</u>	Volume Recovered (bbls) <u>96</u>
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L?	☐ Yes ☐ No ☐ N/A
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released	Volume/Weight Recovered

Cause of Release and Affected Area:

The release was attributed to a tank overflowing due to the loss of communications on SCADA. A majority of the release was confined to within the lined containment.

Initial Response

- ☒ The source of the release has been stopped.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices
- ☒ 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?	55'		
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
55'	Chloride	EPA 300.0 or SM4500 Cl B	10000 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	2500 mg/kg
	DRO + GRO	EPA SW-846 Method 8015M	1000 mg/kg
	BTEX	EPA SW-846 Methods 8021b or 8260b	50 mg/kg
	Benzene	EPA SW-846 Methods 8021b or 8260b	10 mg/kg

4.0 REMEDIATION ACTIVITIES SUMMARY

Upon conducting initial response activities the liner was inspected. During the liner inspection, it was determined that a relatively small hole was present within one of the plastic welds on a pipeline "stub-up" which allowed the released crude oil through the upper liner, before flowing along the secondary liner toward the north and east.

On April 14, 2020, remediation activities commenced at the Site. In accordance with the NMOCD, impacted soil within the release margins affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard 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 and/or NMOCD Reclamation Standard. The west sidewall of the excavated area on the east side of the salt water disposal (SWD) containment was advanced to the maximum extent practicable given the excavations proximity to the SWD containment.

On May 4, 2020, Etech collected eighteen (18) excavation confirmation soil samples (FS1, FS2, SW1, EW1, EW2, CSW, FS3, CWW, EW3, NW, OS1, OS2, OS3, OS4, NOS, SOS, EOS and WOS) 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/or chloride. Laboratory analytical results indicated BTEX, TPH and chloride concentrations below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples with the exception of soil samples FS2, OS2, OS4 and EOS, which exhibited TPH concentrations of 15,800; 17,100; 3,050 and 16,100 mg/kg, respectively. The floor and sidewalls of the excavation were advanced in the areas characterized by soil samples FS2, OS2, OS4 and EOS.

In addition, a hand-auger was utilized to collect two (2) delineation soil samples (UC-A and UC-B) from soil beneath the affected containment. The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations which were determined to be below the NMOCD Closure Criteria in each of the submitted soil samples.

On May 19, 2020, Etech collected, four (4) excavation confirmation soil samples (EOS B, OS4 B, FS2 B and OS2 B) and submitted them to the laboratory for analysis of TPH. Laboratory analytical results indicated TPH concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples with the exception of soil samples FS2 B, which exhibited a TPH concentration of 24,700 mg/kg. The floor of the excavation was advanced in the area characterized by soil sample FS2 B.

On June 24, 2020, two (2) excavation confirmation soil samples (SS1A @ 5' and NS2B @ 5') were collected from the floor of the excavated area and submitted it to the laboratory for analysis of BTEX, TPH and chloride concentrations, which were determined to be below the NMOCD Closure Criteria.

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

The final dimensions of the scraped oversprayed area on the west side of the salt water disposal containment were approximately 50 Ft. in length, 10 to 30 Ft. in width and ranged from 3 to 6 inches in depth. The final dimensions of the excavated area on the north side of the SWD containment were approximately 15 Ft. in length, 8 Ft. in width and 3 Ft. in depth. The final dimensions of the excavated area on the east side of the SWD containment were approximately 15 Ft. in length, 4 to 10 Ft. in width and 3 to 5 Ft. in depth. During the course of remediation activities approximately 30 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 DEFERRAL REQUEST

Remediation activities were conducted in accordance with the NMOCD. Laboratory analytical results from the collected soil samples indicate concentrations of BTEX, TPH and chloride are below the NMOCD Closure Criteria in each of the submitted soil samples. Impacted soil affected above the NMOCD Closure Criteria in the area characterized by soil samples UC-A and UC-B will be remediated upon decommissioning the facility. Etech maintains excavation of impacted material beneath the lined SWD containment will result in a major facility deconstruction.

Based on laboratory analytical results and field activities conducted to date, Etech recommends Goodnight Midstream Permian, LLC, provide copies of this Remediation Summary and Deferral Request to the appropriate agencies and request partial closure be granted to the Blueberry SWD Site. Impacted soil affected above the NMOCD Closure Criteria remaining in-situ beneath the SWD containment will be remediated in accordance with NMOCD 19.15.29.12 and 19.15.29.13 once the facility is no longer being used for oil and gas operations.

7.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this Remediation Summary and Deferral 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 Goodnight Midstream Permian, LLC. Use of the information contained in this report is prohibited without the consent of Etech and/or Goodnight Midstream Permian, LLC.

8.0 DISTRIBUTION

Goodnight Midstream Permian, LLC

5910 N Central Expy

Dallas, TX 75206

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 2

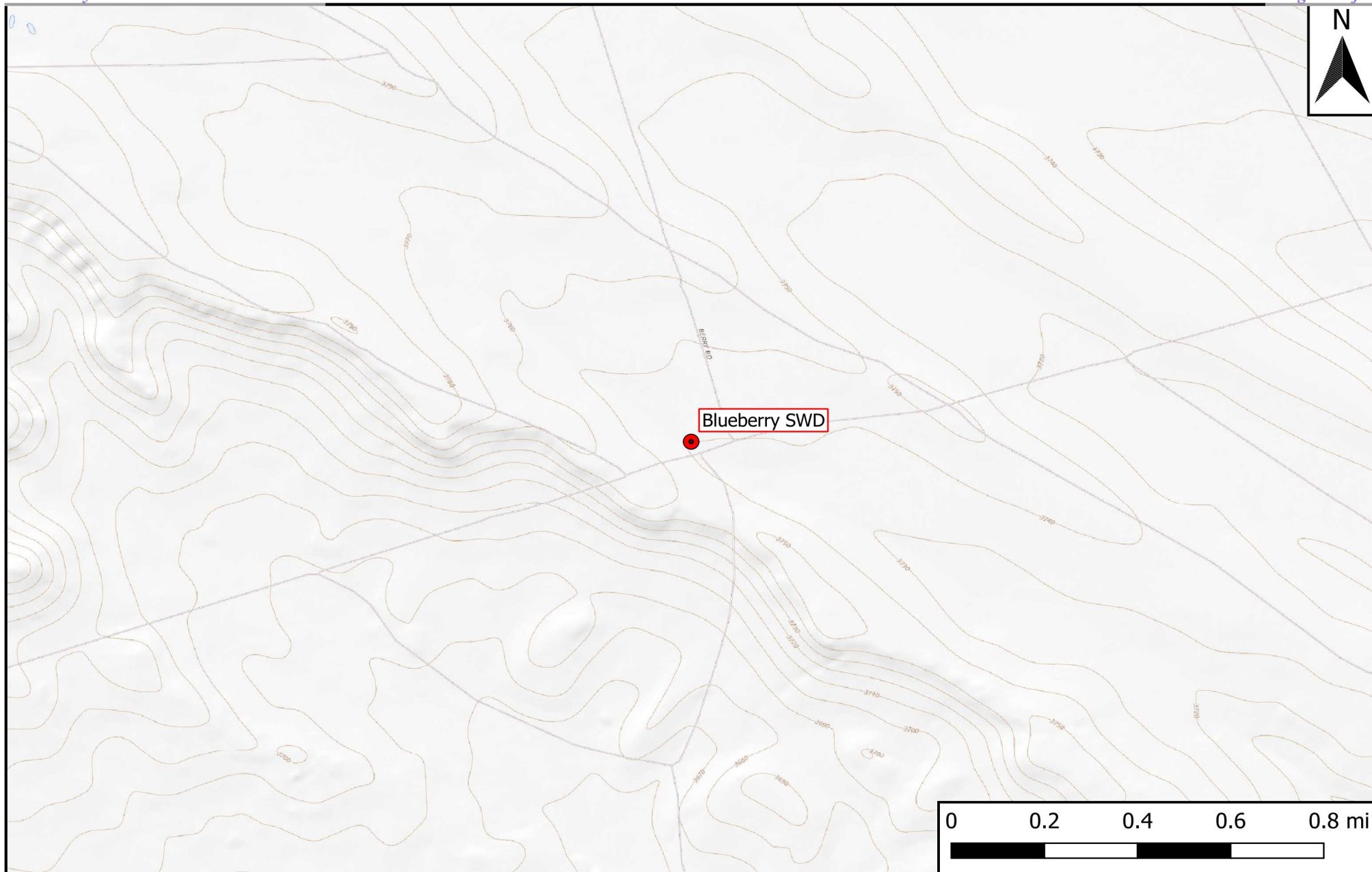
811 S. First Street

Artesia, NM 88210

(Electronic Submission)

Figure 1

Topographic Map



Legend

● Site Location

Figure 1

Topographic Map
Goodnight Midstream Permian, LLC
Blueberry SWD
GPS: 32.45911, -103.519608
Lea County



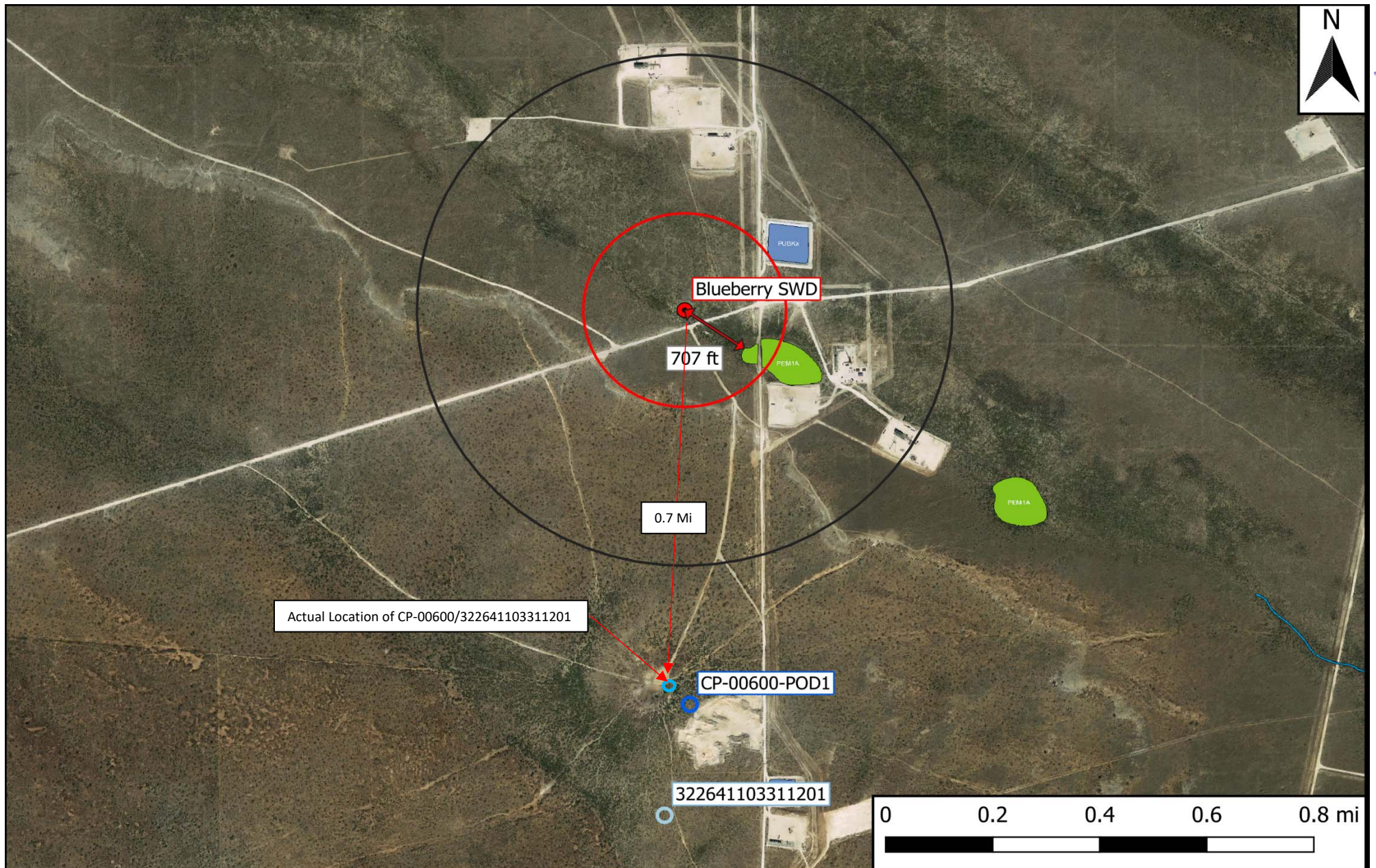
Drafted: mag

Checked: jwl

Date: 4/15/20

Figure 2

Aerial Proximity Map



Legend

- Site Location
- Well - NMOSE
- Well - USGS
- High Karst
- Potash Mine Workings

- 0.5 Mi Radius
- 1000 Ft Radius
- 1% Annual Flood Chance
- Lake/Freshwater Pond
- Emergent/Forested Wetlands
- Riverine

Figure 2
Aerial Map
Goodnight Midstream Permian, LLC
Blueberry SWD
GPS: 32.45911, -103.519608
Lea County



Drafted: mag Checked: jwl Date: 7/16/20

Figure 3

Site and Sample Location Map



Legend:

	Affected Area		SWD Containment
	Excavated Area		
	Sample Point		
	Composite Sample Location		

Figure 3
 Site and Sample Location Map
 Goodnight Midstream Permian, LLC
 Blueberry SWD
 GPS: 32.45911, -103.519608
 Lea County

Drafted: jwl Checked:mg Date: 7/16/20

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

TABLE 1
CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL
Goodnight Midstream Permian, LLC
Blueberry SWD
NMOCD Ref. #: nRM2010753767

NMOCD Closure Criteria				10	50	-	-	1000	-	2500	10000
Sample ID	Date	Depth	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
FS1	5/4/2020	3'	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	14.4
FS2	5/4/2020	3'	In-Situ	<0.00201	0.00265	4,030	10,200	14,200	1,560	15,800	18.4
SW1	5/4/2020	NA	In-Situ	<0.00200	<0.00200	<50.0	270	270	<50.0	270	13.5
EW1	5/4/2020	NA	In-Situ	<0.00199	0.0110	<50.0	<50.0	<50.0	<50.0	<50.0	123
EW2	5/4/2020	NA	In-Situ	0.00382	0.0778	<49.8	177	177	<49.8	177	72.9
CSW	5/4/2020	NA	In-Situ	<0.00198	0.00450	<50.0	108	108	<50.0	108	96.2
FS3	5/4/2020	3'	In-Situ	<0.00198	0.00689	<49.9	<49.9	<49.9	<49.9	<49.9	18.9
CWW	5/4/2020	NA	In-Situ	<0.00201	<0.00201	<50.0	67.6	67.6	<50.0	67.6	19.0
EW3	5/4/2020	NA	In-Situ	0.00392	0.145	<50.0	518	518	68.6	587	19.1
NW	5/4/2020	NA	In-Situ	<0.00198	0.00223	<49.9	<49.9	<49.9	<49.9	<49.9	16.2
OS1	5/4/2020	3"	In-Situ	<0.00199	<0.00199	<49.8	<49.8	<49.8	<49.8	<49.8	12.7
OS2	5/4/2020	3"	Excavated	0.00322	0.0107	<250	14,800	14,800	2,320	17,100	175
OS3	5/4/2020	3"	In-Situ	0.00410	0.0327	<49.8	888	888	163	1,050	23.2
OS4	5/4/2020	3"	Excavated	<0.00198	0.00429	<49.9	2,590	2,590	459	3,050	43.2
NOS	5/4/2020	Surf.	In-Situ	<0.00199	<0.00199	<50.0	119	119	<50.0	119	16.8
SOS	5/4/2020	Surf.	In-Situ	0.00314	0.0258	<49.9	91.7	91.7	<49.9	91.7	160
EOS	5/4/2020	Surf.	Excavated	<0.00199	0.00337	<249	14,200	14,200	1,880	16,100	59.9
WOS	5/4/2020	Surf.	In-Situ	<0.00200	0.0124	<50.0	76.7	76.7	<50.0	76.7	63.6
UC-A	5/4/2020	5'	In-Situ	0.00235	0.155	<50.0	331	331	<50.0	331	6.51
UC-B	5/4/2020	6'	In-Situ	0.00745	0.0519	<49.8	<49.8	<49.8	<49.8	<49.8	15.3
EOS B	5/19/2020	NA	In-Situ	-	-	<50.0	267	267	56.7	324	-
OS4 B	5/19/2020	4-6"	In-Situ	-	-	<50.0	930	930	364	1,290	-
FS2 B	5/19/2020	4'	Excavated	-	-	2,830	18,500	21,300	3,380	24,700	-
OS2 B	5/19/2020	4-6"	In-Situ	-	-	<50.0	63.8	63.8	<49.9	63.8	-
SS1A @ 5'	6/24/2020	5'	In-Situ	<0.00105	0.0165	<26.3	306	306	<26.3	306	56.9
NS2B @ 5'	6/24/2020	5'	In-Situ	<0.00110	<0.00549	<27.5	<27.5	<27.5	<27.5	<27.5	34.7

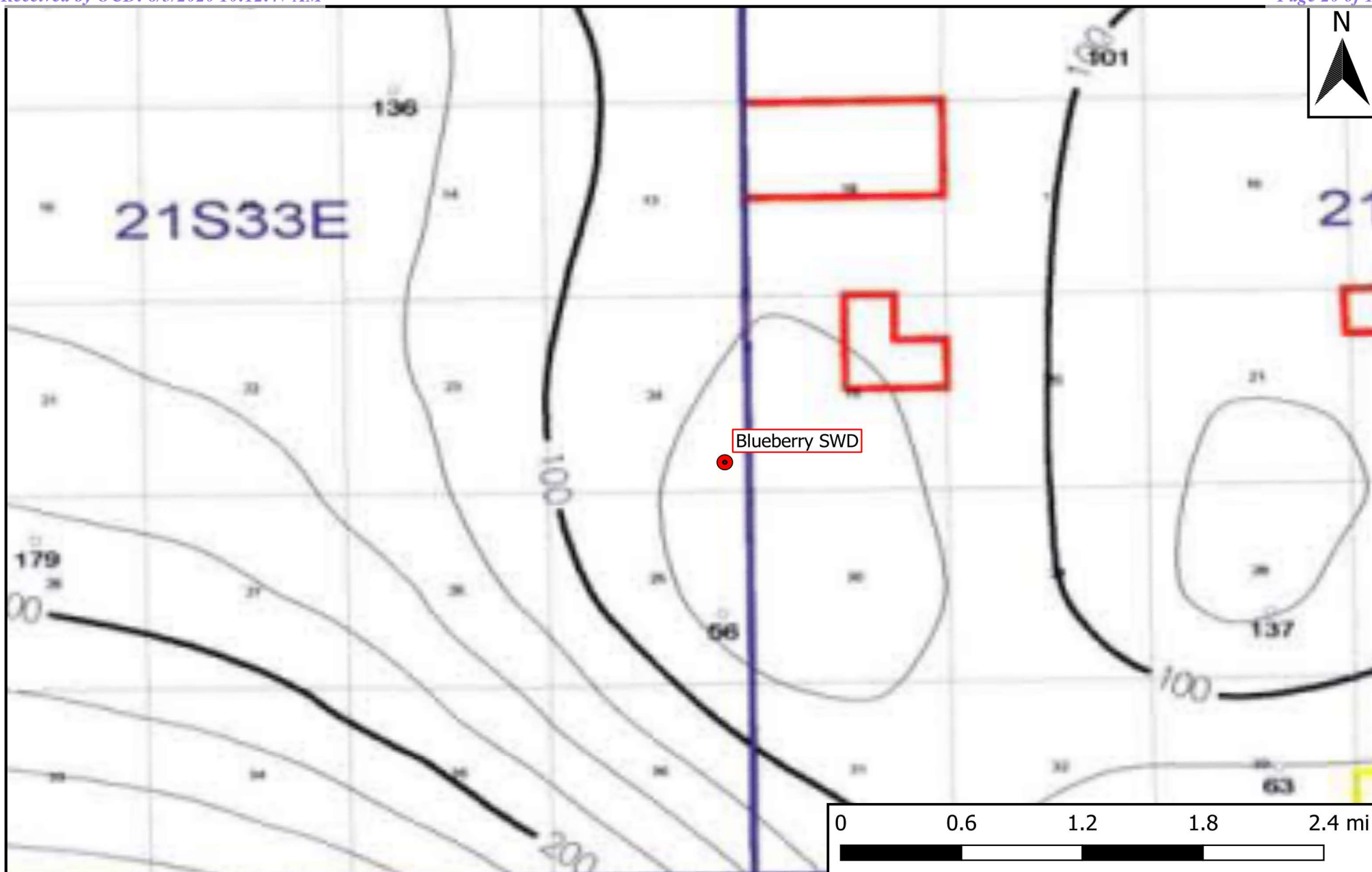
NOTES:

- = 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
Goodnight Midstream Permian, LLC
Blueberry SWD
GPS: 32.45911, -103.519608
Lea County



Drafted: mag

Checked: jwl

Date: 4/15/20



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	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
CP 00600 POD1	CP	LE		2	4	25	21S	33E		639152	3591054*	1237	65		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 639136.3

Northing (Y): 3592291.26

Radius: 1610

*UTM location was derived from PLSS - see Help

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

4/15/20 8:41 AM

WATER COLUMN/ AVERAGE DEPTH TO
WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
CP	00600 POD1	2	4	25	21S	33E	639152	3591054*	

x

Driller License: 122**Driller Company:** UNKNOWN**Driller Name:****Drill Start Date:****Drill Finish Date:****Plug Date:****Log File Date:****PCW Rcv Date:****Source:** Shallow**Pump Type:****Pipe Discharge Size:****Estimated Yield:** 3 GPM**Casing Size:** 6.63**Depth Well:** 65 feet**Depth Water:**

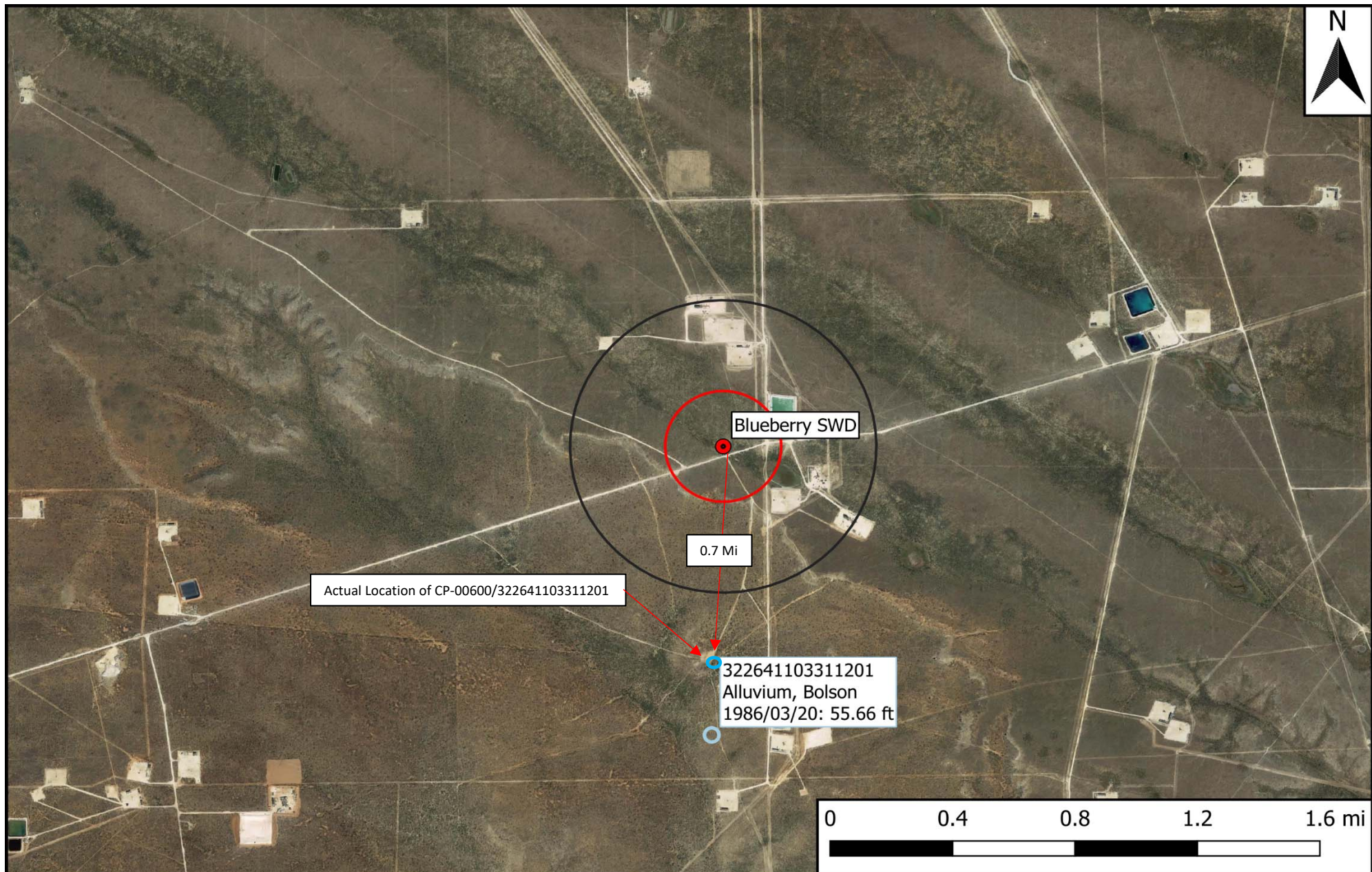
x

*UTM location was derived from PLSS - see Help

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

4/15/20 8:41 AM

POINT OF DIVERSION SUMMARY



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

Figure 5
 USGS Well Proximity Map
 Goodnight Midstream Permian, LLC
 Blueberry SWD
 GPS: 32.45911, -103.519608
 Lea County



Drafted: mag Checked: jwl Date: 7/16/20



National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

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 =

- 322641103311201

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

USGS 322641103311201 21S.33E.25.42322

Lea County, New Mexico
Latitude 32°26'41", Longitude 103°31'12" NAD27
Land-surface elevation 3,660 feet above NAVD88
The depth of the well is 68 feet below land surface.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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

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
1968-03-28			D56.53			2		U		U	A
1971-02-04			D58.95			2		U		U	A
1972-09-22			D56.53			2		U		U	A
1976-12-16			D57.58			2		U		U	A
1981-03-10			D56.03			2		U		U	A
1986-03-20			D55.66			2		U		U	A

Explanation

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

Automated retrievals

- Help
- Data Tips
- Explanation of terms
- Subscribe for system changes
- News

Accessibility Plug-Ins FOIA Privacy Policies and Notices

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

Title: Groundwater for USA: Water Levels

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



Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2020-04-15 10:35:58 EDT

0.25 0.23 nadww02

Appendix B

Field Data and Soil Profile Logs



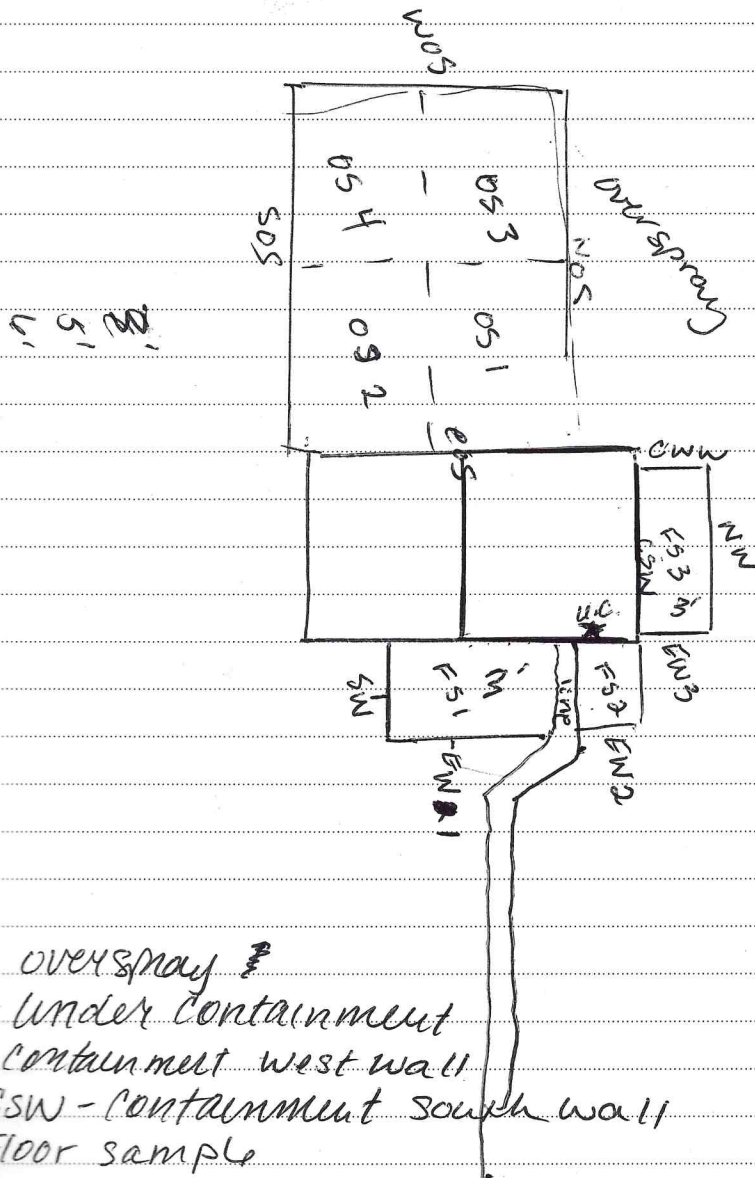
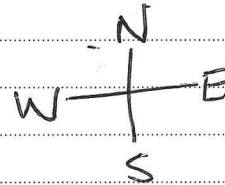
Soil Profile

Project: Blueberry SWD Date: 5/4/2020
Project Number: 12335 Latitude: 32.45911 Longitude: -103.519608

Depth (ft. bgs)	Description
1	0-1' Imported Fill / Caliche
2	
3	Reddish Brown Sand
4	
5	
6	
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TP

5-4-20 Goodnight Midstream



- OS - overspray
- U.C. - under containment
- CWW - containment west wall
- ~~GSW~~ GSW - containment south wall
- FS - Floor sample

Appendix C

Laboratory Analytical Reports



Certificate of Analysis Summary 660570

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Blueberry SWD

Project Id: 12335

Contact: PM

Project Location:

Date Received in Lab: Tue 05.05.2020 10:35

Report Date: 05.14.2020 14:03

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	660570-001	660570-002	660570-003	660570-004	660570-005	660570-006
	<i>Field Id:</i>	FS1	FS2	SW1	EW1	EW2	CSW
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	05.04.2020 00:00	05.04.2020 00:00	05.04.2020 00:00	05.04.2020 00:00	05.04.2020 00:00	05.04.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	05.12.2020 08:00	05.12.2020 08:00	05.12.2020 08:00	05.12.2020 08:00	05.12.2020 08:00	05.12.2020 08:00
	<i>Analyzed:</i>	05.12.2020 12:20	05.12.2020 12:40	05.12.2020 13:00	05.12.2020 13:20	05.12.2020 13:40	05.12.2020 14:00
	<i>Units/RL:</i>	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	<0.00200 0.00200	<0.00199 0.00199	0.00382 0.00199	<0.00198 0.00198
Toluene		<0.00199 0.00199	0.00265 0.00201	<0.00200 0.00200	0.00679 0.00199	0.0392 0.00199	0.00450 0.00198
Ethylbenzene		<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	0.0123 0.00199	<0.00198 0.00198
m,p-Xylenes		<0.00398 0.00398	<0.00402 0.00402	<0.00399 0.00399	0.00417 0.00398	0.00481 0.00398	<0.00397 0.00397
o-Xylene		<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	0.0177 0.00199	<0.00198 0.00198
Total Xylenes		<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	0.00417 0.00199	0.0225 0.00199	<0.00198 0.00198
Total BTEX		<0.00199 0.00199	0.00265 0.00201	<0.00200 0.00200	0.0110 0.00199	0.0778 0.00199	0.00450 0.00198
Chloride by EPA 300	<i>Extracted:</i>	05.05.2020 16:45	05.05.2020 16:45	05.05.2020 16:45	05.05.2020 16:45	05.05.2020 16:45	05.05.2020 16:45
	<i>Analyzed:</i>	05.05.2020 18:15	05.05.2020 18:20	05.05.2020 18:25	05.05.2020 18:31	05.05.2020 18:36	05.05.2020 18:41
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		14.4 5.03	18.4 5.00	13.5 5.02	123 5.02	72.9 4.96	96.2 4.99
TPH By SW8015 Mod	<i>Extracted:</i>	05.05.2020 16:00	05.05.2020 16:00	05.05.2020 16:00	05.05.2020 16:00	05.05.2020 16:00	05.05.2020 16:00
	<i>Analyzed:</i>	05.05.2020 17:23	05.05.2020 18:20	05.05.2020 18:39	05.05.2020 18:57	05.05.2020 19:16	05.05.2020 19:34
	<i>Units/RL:</i>	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	4030 249	<50.0 50.0	<50.0 50.0	<49.8 49.8	<50.0 50.0
Diesel Range Organics (DRO)		<50.0 50.0	10200 249	270 50.0	<50.0 50.0	177 49.8	108 50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	1560 249	<50.0 50.0	<50.0 50.0	<49.8 49.8	<50.0 50.0
Total TPH		<50.0 50.0	15800 249	270 50.0	<50.0 50.0	177 49.8	108 50.0

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Jessica Kramer
Project Manager



Certificate of Analysis Summary 660570

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Blueberry SWD

Project Id: 12335

Contact: PM

Project Location:

Date Received in Lab: Tue 05.05.2020 10:35

Report Date: 05.14.2020 14:03

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	660570-007	660570-008	660570-009	660570-010	660570-011	660570-012
	<i>Field Id:</i>	FS3	CWW	EW3	NW	OS1	OS2
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	05.04.2020 00:00	05.04.2020 00:00	05.04.2020 00:00	05.04.2020 00:00	05.04.2020 00:00	05.04.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	05.12.2020 08:00	05.12.2020 08:00	05.12.2020 08:00	05.12.2020 08:00	05.12.2020 08:00	05.12.2020 08:00
	<i>Analyzed:</i>	05.12.2020 14:20	05.12.2020 14:41	05.12.2020 15:01	05.12.2020 16:07	05.12.2020 17:27	05.12.2020 17:47
	<i>Units/RL:</i>	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	0.00392 0.00200	<0.00198 0.00198	<0.00199 0.00199	0.00322 0.00199
Toluene		0.00689 0.00198	<0.00201 0.00201	0.0240 0.00200	0.00223 0.00198	<0.00199 0.00199	0.00752 0.00199
Ethylbenzene		<0.00198 0.00198	<0.00201 0.00201	0.00638 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199
m,p-Xylenes		<0.00396 0.00396	<0.00402 0.00402	0.0476 0.00401	<0.00397 0.00397	<0.00398 0.00398	<0.00398 0.00398
o-Xylene		<0.00198 0.00198	<0.00201 0.00201	0.0633 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199
Total Xylenes		<0.00198 0.00198	<0.00201 0.00201	0.111 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199
Total BTEX		0.00689 0.00198	<0.00201 0.00201	0.145 0.00200	0.00223 0.00198	<0.00199 0.00199	0.0107 0.00199
Chloride by EPA 300	<i>Extracted:</i>	05.05.2020 16:45	05.05.2020 16:45	05.05.2020 16:45	05.05.2020 16:45	05.06.2020 13:45	05.06.2020 13:45
	<i>Analyzed:</i>	05.05.2020 18:57	05.05.2020 19:02	05.05.2020 19:18	05.05.2020 19:23	05.06.2020 20:03	05.06.2020 20:09
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		18.9 5.03	19.0 5.00	19.1 5.00	16.2 5.01	12.7 4.99	175 4.96
TPH By SW8015 Mod	<i>Extracted:</i>	05.05.2020 16:00	05.05.2020 16:00	05.05.2020 16:00	05.05.2020 16:00	05.05.2020 16:00	05.05.2020 16:00
	<i>Analyzed:</i>	05.05.2020 19:52	05.05.2020 20:11	05.05.2020 20:29	05.05.2020 20:48	05.05.2020 21:25	05.05.2020 21:44
	<i>Units/RL:</i>	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	<49.8 49.8	<250 250
Diesel Range Organics (DRO)		<49.9 49.9	67.6 50.0	518 50.0	<49.9 49.9	<49.8 49.8	14800 250
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<50.0 50.0	68.6 50.0	<49.9 49.9	<49.8 49.8	2320 250
Total TPH		<49.9 49.9	67.6 50.0	587 50.0	<49.9 49.9	<49.8 49.8	17100 250

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Jessica Kramer
Project Manager



Certificate of Analysis Summary 660570

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Blueberry SWD

Project Id: 12335

Contact: PM

Project Location:

Date Received in Lab: Tue 05.05.2020 10:35

Report Date: 05.14.2020 14:03

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	660570-013	660570-014	660570-015	660570-016	660570-017	660570-018
	<i>Field Id:</i>	OS3	OS4	NO5	SO5	EO5	WO5
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	05.04.2020 00:00	05.04.2020 00:00	05.04.2020 00:00	05.04.2020 00:00	05.04.2020 00:00	05.04.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	05.13.2020 08:00	05.12.2020 08:00	05.12.2020 08:00	05.12.2020 08:00	05.12.2020 08:00	05.13.2020 08:00
	<i>Analyzed:</i>	05.13.2020 12:18	05.12.2020 18:27	05.12.2020 18:47	05.12.2020 19:08	05.12.2020 19:28	05.13.2020 12:39
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		0.00410 0.00200	<0.00198 0.00198	<0.00199 0.00199	0.00314 0.00200	<0.00199 0.00199	<0.00200 0.00200
Toluene		0.0175 0.00200	0.00429 0.00198	<0.00199 0.00199	0.0194 0.00200	0.00337 0.00199	0.0124 0.00200
Ethylbenzene		0.00281 FX 0.00200	<0.00198 0.00198	<0.00199 0.00199	0.00326 0.00200	<0.00199 0.00199	<0.00200 0.00200
m,p-Xylenes		0.00566 X 0.00400	<0.00397 0.00397	<0.00398 0.00398	<0.00400 0.00400	<0.00398 0.00398	<0.00401 0.00401
o-Xylene		0.00266 X 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Total Xylenes		0.00832 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Total BTEX		0.0327 0.00200	0.00429 0.00198	<0.00199 0.00199	0.0258 0.00200	0.00337 0.00199	0.0124 0.00200
Chloride by EPA 300	<i>Extracted:</i>	05.06.2020 13:45	05.06.2020 13:45	05.06.2020 13:45	05.06.2020 13:45	05.06.2020 13:45	05.06.2020 13:45
	<i>Analyzed:</i>	05.06.2020 20:14	05.06.2020 20:30	05.06.2020 20:35	05.06.2020 20:51	05.06.2020 20:56	05.06.2020 21:01
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		23.2 4.98	43.2 5.02	16.8 5.01	160 4.98	59.9 5.00	63.6 5.03
TPH By SW8015 Mod	<i>Extracted:</i>	05.05.2020 16:00	05.05.2020 16:00	05.05.2020 16:00	05.05.2020 16:00	05.05.2020 16:00	05.05.2020 16:00
	<i>Analyzed:</i>	05.05.2020 22:03	05.05.2020 22:22	05.05.2020 22:40	05.05.2020 22:59	05.05.2020 23:18	05.05.2020 23:36
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.8 49.8	<49.9 49.9	<50.0 50.0	<49.9 49.9	<249 249	<50.0 50.0
Diesel Range Organics (DRO)		888 49.8	2590 49.9	119 50.0	91.7 49.9	14200 249	76.7 50.0
Motor Oil Range Hydrocarbons (MRO)		163 49.8	459 49.9	<50.0 50.0	<49.9 49.9	1880 249	<50.0 50.0
Total TPH		1050 49.8	3050 49.9	119 50.0	91.7 49.9	16100 249	76.7 50.0

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Jessica Kramer
Project Manager



Certificate of Analysis Summary 660570

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Blueberry SWD

Project Id: 12335

Contact: PM

Project Location:

Date Received in Lab: Tue 05.05.2020 10:35

Report Date: 05.14.2020 14:03

Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	660570-019	660570-020				
	Field Id:	UC-A	UC-B				
	Depth:						
	Matrix:	SOIL	SOIL				
	Sampled:	05.04.2020 00:00	05.04.2020 00:00				
BTEX by EPA 8021B	Extracted:	05.12.2020 08:00	05.12.2020 08:00				
	Analyzed:	05.12.2020 20:08	05.12.2020 20:28				
	Units/RL:	mg/kg RL	mg/kg RL				
Benzene		0.00235 0.00201	0.00745 0.00202				
Toluene		0.0105 0.00201	0.0241 0.00202				
Ethylbenzene		0.0410 0.00201	0.00358 0.00202				
m,p-Xylenes		0.00767 0.00402	0.00598 0.00403				
o-Xylene		0.0931 0.00201	0.0108 0.00202				
Total Xylenes		0.101 0.00201	0.0168 0.00202				
Total BTEX		0.155 0.00201	0.0519 0.00202				
Chloride by EPA 300	Extracted:	05.05.2020 16:45	05.05.2020 16:45				
	Analyzed:	05.05.2020 19:28	05.05.2020 19:34				
	Units/RL:	mg/kg RL	mg/kg RL				
Chloride		6.51 5.04	15.3 4.98				
TPH By SW8015 Mod	Extracted:	05.05.2020 16:00	05.05.2020 16:00				
	Analyzed:	05.05.2020 23:55	05.06.2020 00:14				
	Units/RL:	mg/kg RL	mg/kg RL				
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<49.8 49.8				
Diesel Range Organics (DRO)		331 50.0	<49.8 49.8				
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<49.8 49.8				
Total TPH		331 50.0	<49.8 49.8				

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Jessica Kramer
Project Manager



Analytical Report 660570

for

Etech Environmental & Safety Solution, Inc

Project Manager: PM

Blueberry SWD

12335

05.14.2020

Collected By: Client



**1211 W. Florida Ave
Midland TX 79701**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-32), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-23), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
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 (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



05.14.2020

Project Manager: **PM**

Etech Environmental & Safety Solution, Inc

P.O. Box 62228

Midland, TX 79711

Reference: XENCO Report No(s): **660570**

Blueberry SWD

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 XENCO Report Number(s) 660570. 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. 660570 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,

A handwritten signature in black ink that reads 'Jessica Kramer'.

Jessica Kramer

Project Manager

A Small Business and Minority Company

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

**Sample Cross Reference 660570****Etech Environmental & Safety Solution, Inc, Midland, TX**

Blueberry SWD

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS1	S	05.04.2020 00:00		660570-001
FS2	S	05.04.2020 00:00		660570-002
SW1	S	05.04.2020 00:00		660570-003
EW1	S	05.04.2020 00:00		660570-004
EW2	S	05.04.2020 00:00		660570-005
CSW	S	05.04.2020 00:00		660570-006
FS3	S	05.04.2020 00:00		660570-007
CWW	S	05.04.2020 00:00		660570-008
EW3	S	05.04.2020 00:00		660570-009
NW	S	05.04.2020 00:00		660570-010
OS1	S	05.04.2020 00:00		660570-011
OS2	S	05.04.2020 00:00		660570-012
OS3	S	05.04.2020 00:00		660570-013
OS4	S	05.04.2020 00:00		660570-014
NO5	S	05.04.2020 00:00		660570-015
SO5	S	05.04.2020 00:00		660570-016
EO5	S	05.04.2020 00:00		660570-017
WO5	S	05.04.2020 00:00		660570-018
UC-A	S	05.04.2020 00:00		660570-019
UC-B	S	05.04.2020 00:00		660570-020

**CASE NARRATIVE****Client Name: Etech Environmental & Safety Solution, Inc****Project Name: Blueberry SWD**Project ID: 12335
Work Order Number(s): 660570Report Date: 05.14.2020
Date Received: 05.05.2020**Sample receipt non conformances and comments:****Sample receipt non conformances and comments per sample:**

None

Analytical non conformances and comments:

Batch: LBA-3125133 TPH By SW8015 Mod

Surrogate o-Terphenyl recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 660570-017, 660570-012.

Batch: LBA-3125733 BTEX by EPA 8021B

Lab Sample ID 660570-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 660570-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -014, -015, -016, -017, -019, -020.

The Laboratory Control Sample for Toluene, Benzene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

Surrogate 4-Bromofluorobenzene recovered below QC limits. Samples affected are: 7703201-1-BLK.

Batch: LBA-3125815 BTEX by EPA 8021B

Lab Sample ID 660570-013 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Ethylbenzene recovered below QC limits in the Matrix Spike. m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 660570-013, -018.

The Laboratory Control Sample for m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

Ethylbenzene Relative Percent Difference (RPD) between matrix spike and duplicate was above quality control limits.

Samples in the analytical batch are: 660570-013, -018



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX

Blueberry SWD

Sample Id: **FS1** Matrix: Soil Date Received: 05.05.2020 10:35
 Lab Sample Id: 660570-001 Date Collected: 05.04.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 05.05.2020 16:45 Basis: Wet Weight
 Seq Number: 3125118

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	14.4	5.03	mg/kg	05.05.2020 18:15		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.05.2020 16:00 Basis: Wet Weight
 Seq Number: 3125133

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.05.2020 17:23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.05.2020 17:23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.05.2020 17:23	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.05.2020 17:23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	80	%	70-130	05.05.2020 17:23	
o-Terphenyl	84-15-1	83	%	70-130	05.05.2020 17:23	



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX Blueberry SWD

Sample Id: **FS1**
Lab Sample Id: 660570-001

Matrix: Soil
Date Collected: 05.04.2020 00:00

Date Received: 05.05.2020 10:35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.12.2020 08:00

Basis: Wet Weight

Seq Number: 3125733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.12.2020 12:20	UX	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.12.2020 12:20	UX	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.12.2020 12:20	UX	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.12.2020 12:20	UX	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.12.2020 12:20	UX	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.12.2020 12:20	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.12.2020 12:20	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	103	%	70-130	05.12.2020 12:20		
4-Bromofluorobenzene	460-00-4	78	%	70-130	05.12.2020 12:20		



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX

Blueberry SWD

Sample Id: FS2 Matrix: Soil Date Received: 05.05.2020 10:35
 Lab Sample Id: 660570-002 Date Collected: 05.04.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 05.05.2020 16:45 Basis: Wet Weight
 Seq Number: 3125118

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	18.4	5.00	mg/kg	05.05.2020 18:20		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.05.2020 16:00 Basis: Wet Weight
 Seq Number: 3125133

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	4030	249	mg/kg	05.05.2020 18:20		5
Diesel Range Organics (DRO)	C10C28DRO	10200	249	mg/kg	05.05.2020 18:20		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	1560	249	mg/kg	05.05.2020 18:20		5
Total TPH	PHC635	15800	249	mg/kg	05.05.2020 18:20		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-130	05.05.2020 18:20	
o-Terphenyl	84-15-1	102	%	70-130	05.05.2020 18:20	



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX Blueberry SWD

Sample Id: FS2 Matrix: Soil Date Received: 05.05.2020 10:35
 Lab Sample Id: 660570-002 Date Collected: 05.04.2020 00:00
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 05.12.2020 08:00 Basis: Wet Weight
 Seq Number: 3125733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.12.2020 12:40	U	1
Toluene	108-88-3	0.00265	0.00201	mg/kg	05.12.2020 12:40		1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.12.2020 12:40	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.12.2020 12:40	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.12.2020 12:40	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.12.2020 12:40	U	1
Total BTEX		0.00265	0.00201	mg/kg	05.12.2020 12:40		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	109	%	70-130	05.12.2020 12:40		
4-Bromofluorobenzene	460-00-4	105	%	70-130	05.12.2020 12:40		



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX

Blueberry SWD

Sample Id: **SW1**
Lab Sample Id: 660570-003

Matrix: Soil
Date Collected: 05.04.2020 00:00

Date Received: 05.05.2020 10:35

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 05.05.2020 16:45

Basis: Wet Weight

Seq Number: 3125118

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13.5	5.02	mg/kg	05.05.2020 18:25		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.05.2020 16:00

Basis: Wet Weight

Seq Number: 3125133

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.05.2020 18:39	U	1
Diesel Range Organics (DRO)	C10C28DRO	270	50.0	mg/kg	05.05.2020 18:39		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.05.2020 18:39	U	1
Total TPH	PHC635	270	50.0	mg/kg	05.05.2020 18:39		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-130	05.05.2020 18:39	
o-Terphenyl	84-15-1	96	%	70-130	05.05.2020 18:39	



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX Blueberry SWD

Sample Id: **SW1**
Lab Sample Id: 660570-003

Matrix: Soil
Date Collected: 05.04.2020 00:00

Date Received: 05.05.2020 10:35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.12.2020 08:00

Basis: Wet Weight

Seq Number: 3125733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.12.2020 13:00	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.12.2020 13:00	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.12.2020 13:00	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	05.12.2020 13:00	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.12.2020 13:00	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.12.2020 13:00	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.12.2020 13:00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	101	%	70-130	05.12.2020 13:00	
4-Bromofluorobenzene	460-00-4	102	%	70-130	05.12.2020 13:00	



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX

Blueberry SWD

Sample Id: **EW1** Matrix: Soil Date Received: 05.05.2020 10:35
 Lab Sample Id: 660570-004 Date Collected: 05.04.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 05.05.2020 16:45 Basis: Wet Weight
 Seq Number: 3125118

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	123	5.02	mg/kg	05.05.2020 18:31		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.05.2020 16:00 Basis: Wet Weight
 Seq Number: 3125133

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.05.2020 18:57	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.05.2020 18:57	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.05.2020 18:57	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.05.2020 18:57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	81	%	70-130	05.05.2020 18:57	
o-Terphenyl	84-15-1	84	%	70-130	05.05.2020 18:57	



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX Blueberry SWD

Sample Id: **EW1**
Lab Sample Id: 660570-004

Matrix: Soil
Date Collected: 05.04.2020 00:00

Date Received: 05.05.2020 10:35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.12.2020 08:00

Basis: Wet Weight

Seq Number: 3125733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.12.2020 13:20	U	1
Toluene	108-88-3	0.00679	0.00199	mg/kg	05.12.2020 13:20		1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.12.2020 13:20	U	1
m,p-Xylenes	179601-23-1	0.00417	0.00398	mg/kg	05.12.2020 13:20		1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.12.2020 13:20	U	1
Total Xylenes	1330-20-7	0.00417	0.00199	mg/kg	05.12.2020 13:20		1
Total BTEX		0.0110	0.00199	mg/kg	05.12.2020 13:20		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	104	%	70-130	05.12.2020 13:20		
1,4-Difluorobenzene	540-36-3	112	%	70-130	05.12.2020 13:20		



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX

Blueberry SWD

Sample Id: **EW2** Matrix: Soil Date Received: 05.05.2020 10:35
 Lab Sample Id: 660570-005 Date Collected: 05.04.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 05.05.2020 16:45 Basis: Wet Weight
 Seq Number: 3125118

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	72.9	4.96	mg/kg	05.05.2020 18:36		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.05.2020 16:00 Basis: Wet Weight
 Seq Number: 3125133

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.05.2020 19:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	177	49.8	mg/kg	05.05.2020 19:16		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	05.05.2020 19:16	U	1
Total TPH	PHC635	177	49.8	mg/kg	05.05.2020 19:16		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	82	%	70-130	05.05.2020 19:16	
o-Terphenyl	84-15-1	87	%	70-130	05.05.2020 19:16	



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX Blueberry SWD

Sample Id: **EW2**
Lab Sample Id: 660570-005

Matrix: Soil
Date Collected: 05.04.2020 00:00

Date Received: 05.05.2020 10:35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.12.2020 08:00

Basis: Wet Weight

Seq Number: 3125733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.00382	0.00199	mg/kg	05.12.2020 13:40		1
Toluene	108-88-3	0.0392	0.00199	mg/kg	05.12.2020 13:40		1
Ethylbenzene	100-41-4	0.0123	0.00199	mg/kg	05.12.2020 13:40		1
m,p-Xylenes	179601-23-1	0.00481	0.00398	mg/kg	05.12.2020 13:40		1
o-Xylene	95-47-6	0.0177	0.00199	mg/kg	05.12.2020 13:40		1
Total Xylenes	1330-20-7	0.0225	0.00199	mg/kg	05.12.2020 13:40		1
Total BTEX		0.0778	0.00199	mg/kg	05.12.2020 13:40		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	114	%	70-130	05.12.2020 13:40		
1,4-Difluorobenzene	540-36-3	115	%	70-130	05.12.2020 13:40		



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX Blueberry SWD

Sample Id: **CSW** Matrix: **Soil** Date Received: 05.05.2020 10:35
 Lab Sample Id: 660570-006 Date Collected: 05.04.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: **CHE** % Moisture:
 Analyst: **CHE** Date Prep: 05.05.2020 16:45 Basis: **Wet Weight**
 Seq Number: 3125118

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	96.2	4.99	mg/kg	05.05.2020 18:41		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: **DVM** % Moisture:
 Analyst: **ARM** Date Prep: 05.05.2020 16:00 Basis: **Wet Weight**
 Seq Number: 3125133

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.05.2020 19:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	108	50.0	mg/kg	05.05.2020 19:34		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.05.2020 19:34	U	1
Total TPH	PHC635	108	50.0	mg/kg	05.05.2020 19:34		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	81	%	70-130	05.05.2020 19:34	
o-Terphenyl	84-15-1	84	%	70-130	05.05.2020 19:34	



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX Blueberry SWD

Sample Id: CSW
Lab Sample Id: 660570-006

Matrix: Soil
Date Collected: 05.04.2020 00:00

Date Received: 05.05.2020 10:35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.12.2020 08:00

Basis: Wet Weight

Seq Number: 3125733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.12.2020 14:00	U	1
Toluene	108-88-3	0.00450	0.00198	mg/kg	05.12.2020 14:00		1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.12.2020 14:00	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	05.12.2020 14:00	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.12.2020 14:00	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.12.2020 14:00	U	1
Total BTEX		0.00450	0.00198	mg/kg	05.12.2020 14:00		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	100	%	70-130	05.12.2020 14:00		
1,4-Difluorobenzene	540-36-3	110	%	70-130	05.12.2020 14:00		



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX

Blueberry SWD

Sample Id: FS3 Matrix: Soil Date Received: 05.05.2020 10:35
 Lab Sample Id: 660570-007 Date Collected: 05.04.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 05.05.2020 16:45 Basis: Wet Weight
 Seq Number: 3125118

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	18.9	5.03	mg/kg	05.05.2020 18:57		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.05.2020 16:00 Basis: Wet Weight
 Seq Number: 3125133

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.05.2020 19:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.05.2020 19:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.05.2020 19:52	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.05.2020 19:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-130	05.05.2020 19:52	
o-Terphenyl	84-15-1	85	%	70-130	05.05.2020 19:52	



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX Blueberry SWD

Sample Id: FS3
Lab Sample Id: 660570-007

Matrix: Soil
Date Collected: 05.04.2020 00:00

Date Received: 05.05.2020 10:35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.12.2020 08:00

Basis: Wet Weight

Seq Number: 3125733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.12.2020 14:20	U	1
Toluene	108-88-3	0.00689	0.00198	mg/kg	05.12.2020 14:20		1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.12.2020 14:20	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	05.12.2020 14:20	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.12.2020 14:20	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.12.2020 14:20	U	1
Total BTEX		0.00689	0.00198	mg/kg	05.12.2020 14:20		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	103	%	70-130	05.12.2020 14:20		
4-Bromofluorobenzene	460-00-4	88	%	70-130	05.12.2020 14:20		



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX

Blueberry SWD

Sample Id: **CWW** Matrix: Soil Date Received: 05.05.2020 10:35
 Lab Sample Id: 660570-008 Date Collected: 05.04.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 05.05.2020 16:45 Basis: Wet Weight
 Seq Number: 3125118

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	19.0	5.00	mg/kg	05.05.2020 19:02		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.05.2020 16:00 Basis: Wet Weight
 Seq Number: 3125133

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.05.2020 20:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	67.6	50.0	mg/kg	05.05.2020 20:11		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.05.2020 20:11	U	1
Total TPH	PHC635	67.6	50.0	mg/kg	05.05.2020 20:11		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	85	%	70-130	05.05.2020 20:11	
o-Terphenyl	84-15-1	89	%	70-130	05.05.2020 20:11	



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX Blueberry SWD

Sample Id: **CWW**
Lab Sample Id: 660570-008

Matrix: Soil
Date Collected: 05.04.2020 00:00

Date Received: 05.05.2020 10:35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.12.2020 08:00

Basis: Wet Weight

Seq Number: 3125733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.12.2020 14:41	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.12.2020 14:41	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.12.2020 14:41	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.12.2020 14:41	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.12.2020 14:41	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.12.2020 14:41	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.12.2020 14:41	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	109	%	70-130	05.12.2020 14:41		
1,4-Difluorobenzene	540-36-3	103	%	70-130	05.12.2020 14:41		



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX Blueberry SWD

Sample Id: **EW3** Matrix: Soil Date Received: 05.05.2020 10:35
 Lab Sample Id: 660570-009 Date Collected: 05.04.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 05.05.2020 16:45 Basis: Wet Weight
 Seq Number: 3125118

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	19.1	5.00	mg/kg	05.05.2020 19:18		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.05.2020 16:00 Basis: Wet Weight
 Seq Number: 3125133

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.05.2020 20:29	U	1
Diesel Range Organics (DRO)	C10C28DRO	518	50.0	mg/kg	05.05.2020 20:29		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	68.6	50.0	mg/kg	05.05.2020 20:29		1
Total TPH	PHC635	587	50.0	mg/kg	05.05.2020 20:29		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-130	05.05.2020 20:29	
o-Terphenyl	84-15-1	102	%	70-130	05.05.2020 20:29	



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX

Blueberry SWD

Sample Id: **EW3**
Lab Sample Id: 660570-009

Matrix: Soil
Date Collected: 05.04.2020 00:00

Date Received: 05.05.2020 10:35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.12.2020 08:00

Basis: Wet Weight

Seq Number: 3125733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.00392	0.00200	mg/kg	05.12.2020 15:01		1
Toluene	108-88-3	0.0240	0.00200	mg/kg	05.12.2020 15:01		1
Ethylbenzene	100-41-4	0.00638	0.00200	mg/kg	05.12.2020 15:01		1
m,p-Xylenes	179601-23-1	0.0476	0.00401	mg/kg	05.12.2020 15:01		1
o-Xylene	95-47-6	0.0633	0.00200	mg/kg	05.12.2020 15:01		1
Total Xylenes	1330-20-7	0.111	0.00200	mg/kg	05.12.2020 15:01		1
Total BTEX		0.145	0.00200	mg/kg	05.12.2020 15:01		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	89	%	70-130	05.12.2020 15:01		
4-Bromofluorobenzene	460-00-4	126	%	70-130	05.12.2020 15:01		



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX

Blueberry SWD

Sample Id: **NW** Matrix: **Soil** Date Received: 05.05.2020 10:35
 Lab Sample Id: 660570-010 Date Collected: 05.04.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: **CHE** % Moisture:
 Analyst: **CHE** Date Prep: 05.05.2020 16:45 Basis: **Wet Weight**
 Seq Number: 3125118

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	16.2	5.01	mg/kg	05.05.2020 19:23		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: **DVM** % Moisture:
 Analyst: **ARM** Date Prep: 05.05.2020 16:00 Basis: **Wet Weight**
 Seq Number: 3125133

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.05.2020 20:48	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.05.2020 20:48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.05.2020 20:48	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.05.2020 20:48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-130	05.05.2020 20:48	
o-Terphenyl	84-15-1	89	%	70-130	05.05.2020 20:48	



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX Blueberry SWD

Sample Id: **NW**
Lab Sample Id: 660570-010

Matrix: Soil
Date Collected: 05.04.2020 00:00

Date Received: 05.05.2020 10:35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.12.2020 08:00

Basis: Wet Weight

Seq Number: 3125733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.12.2020 16:07	U	1
Toluene	108-88-3	0.00223	0.00198	mg/kg	05.12.2020 16:07		1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.12.2020 16:07	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	05.12.2020 16:07	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.12.2020 16:07	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.12.2020 16:07	U	1
Total BTEX		0.00223	0.00198	mg/kg	05.12.2020 16:07		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	106	%	70-130	05.12.2020 16:07		
4-Bromofluorobenzene	460-00-4	100	%	70-130	05.12.2020 16:07		



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX Blueberry SWD

Sample Id: **OS1** Matrix: Soil Date Received: 05.05.2020 10:35
 Lab Sample Id: 660570-011 Date Collected: 05.04.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 05.06.2020 13:45 Basis: Wet Weight
 Seq Number: 3125258

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	12.7	4.99	mg/kg	05.06.2020 20:03		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.05.2020 16:00 Basis: Wet Weight
 Seq Number: 3125133

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.05.2020 21:25	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	05.05.2020 21:25	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	05.05.2020 21:25	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	05.05.2020 21:25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-130	05.05.2020 21:25	
o-Terphenyl	84-15-1	87	%	70-130	05.05.2020 21:25	



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX

Blueberry SWD

Sample Id: **OS1**
Lab Sample Id: 660570-011

Matrix: Soil
Date Collected: 05.04.2020 00:00

Date Received: 05.05.2020 10:35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.12.2020 08:00

Basis: Wet Weight

Seq Number: 3125733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.12.2020 17:27	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.12.2020 17:27	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.12.2020 17:27	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.12.2020 17:27	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.12.2020 17:27	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.12.2020 17:27	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.12.2020 17:27	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	96	%	70-130	05.12.2020 17:27		
1,4-Difluorobenzene	540-36-3	97	%	70-130	05.12.2020 17:27		



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX Blueberry SWD

Sample Id: **OS2** Matrix: **Soil** Date Received: 05.05.2020 10:35
 Lab Sample Id: 660570-012 Date Collected: 05.04.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: **CHE** % Moisture:
 Analyst: **CHE** Date Prep: 05.06.2020 13:45 Basis: **Wet Weight**
 Seq Number: 3125258

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	175	4.96	mg/kg	05.06.2020 20:09		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: **DVM** % Moisture:
 Analyst: **ARM** Date Prep: 05.05.2020 16:00 Basis: **Wet Weight**
 Seq Number: 3125133

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<250	250	mg/kg	05.05.2020 21:44	U	5
Diesel Range Organics (DRO)	C10C28DRO	14800	250	mg/kg	05.05.2020 21:44		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	2320	250	mg/kg	05.05.2020 21:44		5
Total TPH	PHC635	17100	250	mg/kg	05.05.2020 21:44		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-130	05.05.2020 21:44	
o-Terphenyl	84-15-1	318	%	70-130	05.05.2020 21:44	**



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX Blueberry SWD

Sample Id: **OS2**
Lab Sample Id: 660570-012

Matrix: Soil
Date Collected: 05.04.2020 00:00

Date Received: 05.05.2020 10:35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.12.2020 08:00

Basis: Wet Weight

Seq Number: 3125733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.00322	0.00199	mg/kg	05.12.2020 17:47		1
Toluene	108-88-3	0.00752	0.00199	mg/kg	05.12.2020 17:47		1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.12.2020 17:47	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.12.2020 17:47	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.12.2020 17:47	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.12.2020 17:47	U	1
Total BTEX		0.0107	0.00199	mg/kg	05.12.2020 17:47		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	120	%	70-130	05.12.2020 17:47		
1,4-Difluorobenzene	540-36-3	79	%	70-130	05.12.2020 17:47		



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX

Blueberry SWD

Sample Id: **OS3** Matrix: **Soil** Date Received: 05.05.2020 10:35
 Lab Sample Id: 660570-013 Date Collected: 05.04.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: **CHE** % Moisture:
 Analyst: **CHE** Date Prep: 05.06.2020 13:45 Basis: **Wet Weight**
 Seq Number: 3125258

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	23.2	4.98	mg/kg	05.06.2020 20:14		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: **DVM** % Moisture:
 Analyst: **ARM** Date Prep: 05.05.2020 16:00 Basis: **Wet Weight**
 Seq Number: 3125133

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.05.2020 22:03	U	1
Diesel Range Organics (DRO)	C10C28DRO	888	49.8	mg/kg	05.05.2020 22:03		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	163	49.8	mg/kg	05.05.2020 22:03		1
Total TPH	PHC635	1050	49.8	mg/kg	05.05.2020 22:03		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-130	05.05.2020 22:03	
o-Terphenyl	84-15-1	117	%	70-130	05.05.2020 22:03	



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX Blueberry SWD

Sample Id: **OS3**
Lab Sample Id: 660570-013

Matrix: Soil
Date Collected: 05.04.2020 00:00

Date Received: 05.05.2020 10:35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.13.2020 08:00

Basis: Wet Weight

Seq Number: 3125815

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.00410	0.00200	mg/kg	05.13.2020 12:18		1
Toluene	108-88-3	0.0175	0.00200	mg/kg	05.13.2020 12:18		1
Ethylbenzene	100-41-4	0.00281	0.00200	mg/kg	05.13.2020 12:18	FX	1
m,p-Xylenes	179601-23-1	0.00566	0.00400	mg/kg	05.13.2020 12:18	X	1
o-Xylene	95-47-6	0.00266	0.00200	mg/kg	05.13.2020 12:18	X	1
Total Xylenes	1330-20-7	0.00832	0.00200	mg/kg	05.13.2020 12:18		1
Total BTEX		0.0327	0.00200	mg/kg	05.13.2020 12:18		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	107	%	70-130	05.13.2020 12:18		
4-Bromofluorobenzene	460-00-4	103	%	70-130	05.13.2020 12:18		



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX

Blueberry SWD

Sample Id: **OS4**
Lab Sample Id: 660570-014

Matrix: Soil
Date Collected: 05.04.2020 00:00

Date Received: 05.05.2020 10:35

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 05.06.2020 13:45

Basis: Wet Weight

Seq Number: 3125258

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	43.2	5.02	mg/kg	05.06.2020 20:30		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.05.2020 16:00

Basis: Wet Weight

Seq Number: 3125133

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.05.2020 22:22	U	1
Diesel Range Organics (DRO)	C10C28DRO	2590	49.9	mg/kg	05.05.2020 22:22		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	459	49.9	mg/kg	05.05.2020 22:22		1
Total TPH	PHC635	3050	49.9	mg/kg	05.05.2020 22:22		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	81	%	70-130	05.05.2020 22:22	
o-Terphenyl	84-15-1	130	%	70-130	05.05.2020 22:22	



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX

Blueberry SWD

Sample Id: **OS4**
Lab Sample Id: 660570-014

Matrix: Soil
Date Collected: 05.04.2020 00:00

Date Received: 05.05.2020 10:35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.12.2020 08:00

Basis: Wet Weight

Seq Number: 3125733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.12.2020 18:27	U	1
Toluene	108-88-3	0.00429	0.00198	mg/kg	05.12.2020 18:27		1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.12.2020 18:27	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	05.12.2020 18:27	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.12.2020 18:27	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.12.2020 18:27	U	1
Total BTEX		0.00429	0.00198	mg/kg	05.12.2020 18:27		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	97	%	70-130	05.12.2020 18:27		
4-Bromofluorobenzene	460-00-4	122	%	70-130	05.12.2020 18:27		



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX

Blueberry SWD

Sample Id: **NO5**
Lab Sample Id: 660570-015

Matrix: Soil
Date Collected: 05.04.2020 00:00

Date Received: 05.05.2020 10:35

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 05.06.2020 13:45

Basis: Wet Weight

Seq Number: 3125258

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	16.8	5.01	mg/kg	05.06.2020 20:35		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.05.2020 16:00

Basis: Wet Weight

Seq Number: 3125133

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.05.2020 22:40	U	1
Diesel Range Organics (DRO)	C10C28DRO	119	50.0	mg/kg	05.05.2020 22:40		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.05.2020 22:40	U	1
Total TPH	PHC635	119	50.0	mg/kg	05.05.2020 22:40		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-130	05.05.2020 22:40	
o-Terphenyl	84-15-1	88	%	70-130	05.05.2020 22:40	



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX Blueberry SWD

Sample Id: **NO5**
Lab Sample Id: 660570-015

Matrix: Soil
Date Collected: 05.04.2020 00:00

Date Received: 05.05.2020 10:35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.12.2020 08:00

Basis: Wet Weight

Seq Number: 3125733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.12.2020 18:47	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.12.2020 18:47	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.12.2020 18:47	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.12.2020 18:47	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.12.2020 18:47	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.12.2020 18:47	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.12.2020 18:47	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	113	%	70-130	05.12.2020 18:47		
1,4-Difluorobenzene	540-36-3	106	%	70-130	05.12.2020 18:47		



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX

Blueberry SWD

Sample Id: SO5 Matrix: Soil Date Received: 05.05.2020 10:35
 Lab Sample Id: 660570-016 Date Collected: 05.04.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 05.06.2020 13:45 Basis: Wet Weight
 Seq Number: 3125258

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	160	4.98	mg/kg	05.06.2020 20:51		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.05.2020 16:00 Basis: Wet Weight
 Seq Number: 3125133

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.05.2020 22:59	U	1
Diesel Range Organics (DRO)	C10C28DRO	91.7	49.9	mg/kg	05.05.2020 22:59		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.05.2020 22:59	U	1
Total TPH	PHC635	91.7	49.9	mg/kg	05.05.2020 22:59		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	79	%	70-130	05.05.2020 22:59	
o-Terphenyl	84-15-1	81	%	70-130	05.05.2020 22:59	



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX

Blueberry SWD

Sample Id: **SO5**
Lab Sample Id: 660570-016

Matrix: Soil
Date Collected: 05.04.2020 00:00

Date Received: 05.05.2020 10:35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.12.2020 08:00

Basis: Wet Weight

Seq Number: 3125733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.00314	0.00200	mg/kg	05.12.2020 19:08		1
Toluene	108-88-3	0.0194	0.00200	mg/kg	05.12.2020 19:08		1
Ethylbenzene	100-41-4	0.00326	0.00200	mg/kg	05.12.2020 19:08		1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	05.12.2020 19:08	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.12.2020 19:08	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.12.2020 19:08	U	1
Total BTEX		0.0258	0.00200	mg/kg	05.12.2020 19:08		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	107	%	70-130	05.12.2020 19:08		
1,4-Difluorobenzene	540-36-3	104	%	70-130	05.12.2020 19:08		



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX

Blueberry SWD

Sample Id: **EO5**
Lab Sample Id: 660570-017

Matrix: Soil
Date Collected: 05.04.2020 00:00

Date Received: 05.05.2020 10:35

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 05.06.2020 13:45

Basis: Wet Weight

Seq Number: 3125258

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	59.9	5.00	mg/kg	05.06.2020 20:56		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.05.2020 16:00

Basis: Wet Weight

Seq Number: 3125133

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<249	249	mg/kg	05.05.2020 23:18	U	5
Diesel Range Organics (DRO)	C10C28DRO	14200	249	mg/kg	05.05.2020 23:18		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	1880	249	mg/kg	05.05.2020 23:18		5
Total TPH	PHC635	16100	249	mg/kg	05.05.2020 23:18		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-130	05.05.2020 23:18	
o-Terphenyl	84-15-1	295	%	70-130	05.05.2020 23:18	**



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX

Blueberry SWD

Sample Id: **EO5**
Lab Sample Id: 660570-017

Matrix: Soil
Date Collected: 05.04.2020 00:00

Date Received: 05.05.2020 10:35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.12.2020 08:00

Basis: Wet Weight

Seq Number: 3125733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.12.2020 19:28	U	1
Toluene	108-88-3	0.00337	0.00199	mg/kg	05.12.2020 19:28		1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.12.2020 19:28	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.12.2020 19:28	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.12.2020 19:28	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.12.2020 19:28	U	1
Total BTEX		0.00337	0.00199	mg/kg	05.12.2020 19:28		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	80	%	70-130	05.12.2020 19:28		
4-Bromofluorobenzene	460-00-4	130	%	70-130	05.12.2020 19:28		



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX Blueberry SWD

Sample Id: **WO5** Matrix: Soil Date Received: 05.05.2020 10:35
 Lab Sample Id: 660570-018 Date Collected: 05.04.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 05.06.2020 13:45 Basis: Wet Weight
 Seq Number: 3125258

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	63.6	5.03	mg/kg	05.06.2020 21:01		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.05.2020 16:00 Basis: Wet Weight
 Seq Number: 3125133

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.05.2020 23:36	U	1
Diesel Range Organics (DRO)	C10C28DRO	76.7	50.0	mg/kg	05.05.2020 23:36		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.05.2020 23:36	U	1
Total TPH	PHC635	76.7	50.0	mg/kg	05.05.2020 23:36		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	83	%	70-130	05.05.2020 23:36	
o-Terphenyl	84-15-1	85	%	70-130	05.05.2020 23:36	



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX Blueberry SWD

Sample Id: **WO5**
Lab Sample Id: 660570-018

Matrix: Soil
Date Collected: 05.04.2020 00:00

Date Received: 05.05.2020 10:35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.13.2020 08:00

Basis: Wet Weight

Seq Number: 3125815

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.13.2020 12:39	U	1
Toluene	108-88-3	0.0124	0.00200	mg/kg	05.13.2020 12:39		1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.13.2020 12:39	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	05.13.2020 12:39	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.13.2020 12:39	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.13.2020 12:39	U	1
Total BTEX		0.0124	0.00200	mg/kg	05.13.2020 12:39		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	123	%	70-130	05.13.2020 12:39		
1,4-Difluorobenzene	540-36-3	118	%	70-130	05.13.2020 12:39		



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX

Blueberry SWD

Sample Id: UC-A
Lab Sample Id: 660570-019

Matrix: Soil
Date Collected: 05.04.2020 00:00

Date Received: 05.05.2020 10:35

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 05.05.2020 16:45

Basis: Wet Weight

Seq Number: 3125118

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6.51	5.04	mg/kg	05.05.2020 19:28		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.05.2020 16:00

Basis: Wet Weight

Seq Number: 3125133

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.05.2020 23:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	331	50.0	mg/kg	05.05.2020 23:55		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.05.2020 23:55	U	1
Total TPH	PHC635	331	50.0	mg/kg	05.05.2020 23:55		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-130	05.05.2020 23:55	
o-Terphenyl	84-15-1	93	%	70-130	05.05.2020 23:55	



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX Blueberry SWD

Sample Id: UC-A
Lab Sample Id: 660570-019

Matrix: Soil
Date Collected: 05.04.2020 00:00

Date Received: 05.05.2020 10:35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.12.2020 08:00

Basis: Wet Weight

Seq Number: 3125733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.00235	0.00201	mg/kg	05.12.2020 20:08		1
Toluene	108-88-3	0.0105	0.00201	mg/kg	05.12.2020 20:08		1
Ethylbenzene	100-41-4	0.0410	0.00201	mg/kg	05.12.2020 20:08		1
m,p-Xylenes	179601-23-1	0.00767	0.00402	mg/kg	05.12.2020 20:08		1
o-Xylene	95-47-6	0.0931	0.00201	mg/kg	05.12.2020 20:08		1
Total Xylenes	1330-20-7	0.101	0.00201	mg/kg	05.12.2020 20:08		1
Total BTEX		0.155	0.00201	mg/kg	05.12.2020 20:08		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	169	%	70-130	05.12.2020 20:08	**	
1,4-Difluorobenzene	540-36-3	88	%	70-130	05.12.2020 20:08		



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX

Blueberry SWD

Sample Id: UC-B
Lab Sample Id: 660570-020

Matrix: Soil
Date Collected: 05.04.2020 00:00

Date Received: 05.05.2020 10:35

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 05.05.2020 16:45

Basis: Wet Weight

Seq Number: 3125118

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	15.3	4.98	mg/kg	05.05.2020 19:34		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.05.2020 16:00

Basis: Wet Weight

Seq Number: 3125133

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.06.2020 00:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	05.06.2020 00:14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	05.06.2020 00:14	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	05.06.2020 00:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-130	05.06.2020 00:14	
o-Terphenyl	84-15-1	89	%	70-130	05.06.2020 00:14	



Certificate of Analytical Results 660570

Etech Environmental & Safety Solution, Inc, Midland, TX Blueberry SWD

Sample Id: UC-B
Lab Sample Id: 660570-020

Matrix: Soil
Date Collected: 05.04.2020 00:00

Date Received: 05.05.2020 10:35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.12.2020 08:00

Basis: Wet Weight

Seq Number: 3125733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.00745	0.00202	mg/kg	05.12.2020 20:28		1
Toluene	108-88-3	0.0241	0.00202	mg/kg	05.12.2020 20:28		1
Ethylbenzene	100-41-4	0.00358	0.00202	mg/kg	05.12.2020 20:28		1
m,p-Xylenes	179601-23-1	0.00598	0.00403	mg/kg	05.12.2020 20:28		1
o-Xylene	95-47-6	0.0108	0.00202	mg/kg	05.12.2020 20:28		1
Total Xylenes	1330-20-7	0.0168	0.00202	mg/kg	05.12.2020 20:28		1
Total BTEX		0.0519	0.00202	mg/kg	05.12.2020 20:28		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	127	%	70-130	05.12.2020 20:28		
1,4-Difluorobenzene	540-36-3	95	%	70-130	05.12.2020 20:28		



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



Etech Environmental & Safety Solution, Inc

Blueberry SWD

Analytical Method: Chloride by EPA 300

Seq Number: 3125118

MB Sample Id: 7702748-1-BLK

Matrix: Solid

LCS Sample Id: 7702748-1-BKS

Prep Method: E300P

Date Prep: 05.05.2020

LCSD Sample Id: 7702748-1-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	258	103	244	98	90-110	6	20	mg/kg	05.05.2020 17:17	

Analytical Method: Chloride by EPA 300

Seq Number: 3125258

MB Sample Id: 7702807-1-BLK

Matrix: Solid

LCS Sample Id: 7702807-1-BKS

Prep Method: E300P

Date Prep: 05.06.2020

LCSD Sample Id: 7702807-1-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	242	97	90-110	1	20	mg/kg	05.06.2020 18:50	

Analytical Method: Chloride by EPA 300

Seq Number: 3125118

Parent Sample Id: 660520-004

Matrix: Soil

MS Sample Id: 660520-004 S

Prep Method: E300P

Date Prep: 05.05.2020

MSD Sample Id: 660520-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	22.7	252	274	100	278	101	90-110	1	20	mg/kg	05.05.2020 17:33	

Analytical Method: Chloride by EPA 300

Seq Number: 3125118

Parent Sample Id: 660570-006

Matrix: Soil

MS Sample Id: 660570-006 S

Prep Method: E300P

Date Prep: 05.05.2020

MSD Sample Id: 660570-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	96.2	250	322	90	330	94	90-110	2	20	mg/kg	05.05.2020 18:46	

Analytical Method: Chloride by EPA 300

Seq Number: 3125258

Parent Sample Id: 660570-013

Matrix: Soil

MS Sample Id: 660570-013 S

Prep Method: E300P

Date Prep: 05.06.2020

MSD Sample Id: 660570-013 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	23.2	249	251	91	260	95	90-110	4	20	mg/kg	05.06.2020 20:19	

Analytical Method: Chloride by EPA 300

Seq Number: 3125258

Parent Sample Id: 660652-043

Matrix: Soil

MS Sample Id: 660652-043 S

Prep Method: E300P

Date Prep: 05.06.2020

MSD Sample Id: 660652-043 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	11.4	251	238	90	233	88	90-110	2	20	mg/kg	05.06.2020 19:05	X

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

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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



Etech Environmental & Safety Solution, Inc

Blueberry SWD

Analytical Method: TPH By SW8015 Mod

Seq Number: 3125133

MB Sample Id: 7702761-1-BLK

Matrix: Solid

LCS Sample Id: 7702761-1-BKS

Prep Method: SW8015P

Date Prep: 05.05.2020

LCSD Sample Id: 7702761-1-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	894	89	884	88	70-130	1	20	mg/kg	05.05.2020 16:34	
Diesel Range Organics (DRO)	<50.0	1000	949	95	942	94	70-130	1	20	mg/kg	05.05.2020 16:34	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	79		92		92		70-130	%	05.05.2020 16:34
o-Terphenyl	82		83		84		70-130	%	05.05.2020 16:34

Analytical Method: TPH By SW8015 Mod

Seq Number: 3125133

Matrix: Solid

Prep Method: SW8015P

Date Prep: 05.05.2020

MB Sample Id: 7702761-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	05.05.2020 16:15	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3125133

Matrix: Soil

Prep Method: SW8015P

Date Prep: 05.05.2020

Parent Sample Id: 660570-001

MS Sample Id: 660570-001 S

MSD Sample Id: 660570-001 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	952	95	954	95	70-130	0	20	mg/kg	05.05.2020 17:42	
Diesel Range Organics (DRO)	<49.9	997	1030	103	1030	103	70-130	0	20	mg/kg	05.05.2020 17:42	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	100		99		70-130	%	05.05.2020 17:42
o-Terphenyl	92		96		70-130	%	05.05.2020 17:42

Analytical Method: BTEX by EPA 8021B

Seq Number: 3125733

Matrix: Solid

Prep Method: SW5035A

Date Prep: 05.12.2020

MB Sample Id: 7703201-1-BLK

LCS Sample Id: 7703201-1-BKS

LCSD Sample Id: 7703201-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.107	107	0.111	111	70-130	4	35	mg/kg	05.12.2020 10:01	
Toluene	<0.00200	0.100	0.0959	96	0.0947	95	70-130	1	35	mg/kg	05.12.2020 10:01	
Ethylbenzene	<0.00200	0.100	0.0968	97	0.0947	95	70-130	2	35	mg/kg	05.12.2020 10:01	
m,p-Xylenes	<0.00400	0.200	0.180	90	0.176	88	70-130	2	35	mg/kg	05.12.2020 10:01	
o-Xylene	<0.00200	0.100	0.0871	87	0.0871	87	70-130	0	35	mg/kg	05.12.2020 10:01	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	85		102		106		70-130	%	05.12.2020 10:01
4-Bromofluorobenzene	63	**	96		101		70-130	%	05.12.2020 10:01

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

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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



Etech Environmental & Safety Solution, Inc

Blueberry SWD

Analytical Method: BTEX by EPA 8021B

Seq Number: 3125815

Matrix: Solid

Prep Method: SW5035A

Date Prep: 05.13.2020

MB Sample Id: 7703255-1-BLK

LCS Sample Id: 7703255-1-BKS

LCSD Sample Id: 7703255-1-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	0.105	105	0.118	119	70-130	12	35	mg/kg	05.13.2020 10:16	
Toluene	<0.00200	0.100	0.115	115	0.121	122	70-130	5	35	mg/kg	05.13.2020 10:16	
Ethylbenzene	<0.00200	0.100	0.108	108	0.108	109	70-130	0	35	mg/kg	05.13.2020 10:16	
m,p-Xylenes	<0.00400	0.200	0.219	110	0.216	109	70-130	1	35	mg/kg	05.13.2020 10:16	
o-Xylene	<0.00200	0.100	0.104	104	0.105	106	70-130	1	35	mg/kg	05.13.2020 10:16	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	109		105		109		70-130	%	05.13.2020 10:16
4-Bromofluorobenzene	101		106		104		70-130	%	05.13.2020 10:16

Analytical Method: BTEX by EPA 8021B

Seq Number: 3125733

Matrix: Soil

Prep Method: SW5035A

Date Prep: 05.12.2020

Parent Sample Id: 660570-001

MS Sample Id: 660570-001 S

MSD Sample Id: 660570-001 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	0.00431	4	0.00470	5	70-130	9	35	mg/kg	05.12.2020 10:41	X
Toluene	<0.00199	0.0994	0.00433	4	0.00463	5	70-130	7	35	mg/kg	05.12.2020 10:41	X
Ethylbenzene	<0.00199	0.0994	0.00299	3	0.00256	3	70-130	15	35	mg/kg	05.12.2020 10:41	X
m,p-Xylenes	<0.00398	0.199	0.00633	3	0.00579	3	70-130	9	35	mg/kg	05.12.2020 10:41	X
o-Xylene	<0.00199	0.0994	0.00445	4	0.00452	5	70-130	2	35	mg/kg	05.12.2020 10:41	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		102		70-130	%	05.12.2020 10:41
4-Bromofluorobenzene	100		95		70-130	%	05.12.2020 10:41

Analytical Method: BTEX by EPA 8021B

Seq Number: 3125815

Matrix: Soil

Prep Method: SW5035A

Date Prep: 05.13.2020

Parent Sample Id: 660570-013

MS Sample Id: 660570-013 S

MSD Sample Id: 660570-013 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	0.00410	0.0992	0.0930	90	0.0960	92	70-130	3	35	mg/kg	05.13.2020 10:57	
Toluene	0.0175	0.0992	0.131	114	0.135	118	70-130	3	35	mg/kg	05.13.2020 10:57	
Ethylbenzene	0.00281	0.0992	0.0493	47	0.103	100	70-130	71	35	mg/kg	05.13.2020 10:57	XF
m,p-Xylenes	0.00566	0.198	0.0900	43	0.113	54	70-130	23	35	mg/kg	05.13.2020 10:57	X
o-Xylene	0.00266	0.0992	0.0425	40	0.0554	53	70-130	26	35	mg/kg	05.13.2020 10:57	X

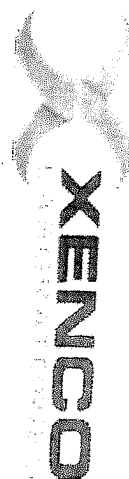
Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	123		123		70-130	%	05.13.2020 10:57
4-Bromofluorobenzene	90		104		70-130	%	05.13.2020 10:57

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

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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



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) 449-9800

Work Order No:

1005510

www.xenco.com Page of

Project Manager:	Joel Lowry	Bill to: (if different)	Goodnight Midstream
Company Name:	Elech Environmental & Safety	Company Name:	Goodnight Midstream
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@elecheny.com + Client
Project Name:	Blueberry SWD	Turn Around	
Project Number:	12335	Routine:	☐
Project Location:		Rush:	☐
Sample's Name:	Evie Mojica	Due Date:	
PO #:			

SAMPLE RECEIPT		Temp Blank:	Yes ☒ No ☐	Well Ice:	Yes ☒ No ☐
Temperature (°C):	0.0	Thermometer ID:	29		
Received Inact:	Yes ☒ No ☐	Correction Factor:	-0.5		
Cooler Custody Seals:	Yes ☒ No ☐	Total Containers:			
Sample Custody Seals:	Yes ☒ No ☐				

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	ANALYSIS REQUEST	Preservative Codes
FS1				3'	Chloride E300		HN03: HN
FS2				3'	BTEX 8021		H2S04: H2
SW1				3'	TPH Modified Ext		HCL: HL
EW1					TPH TX1005		None: NO
EW2							NaOH: Na
CSW							MeOH: Me
FS3				3'			Zn Acetate+ NaOH: Zn
CMW							
EW3							
NW							

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 Ti 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 Ti 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.

Relinquished by: (Signature) Received by: (Signature) Date/Time

Relinquished by: (Signature) Received by: (Signature) Date/Time

Relinquished by: (Signature) Received by: (Signature) Date/Time



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 (505) 986-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6707
Atlanta, GA (770) 449-8800

Work Order No:

140570

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

www.xenco.com		Page	of
Work Order Comments			
Program: UST/PT ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐ State of Project: _____ Reporting Level I ☐ Level II ☐ PST/US ☐ TRR ☐ Level I ☐ Deliverables: EDD ☐ ADAPT ☐ Other: _____			

Project Number:	12335	Turn Around	
Project Location		Routine:	☐
Sampler's Name:	Eric Mejica	Rush:	☐
PO #:		Due Date:	

SAMPLE RECEIPT			
Temperature (°C):	Temp Blank:	Yes	No
Received Inact:	Yes	No	Thermometer ID:
Cooler Custody Seals:	Yes	No	Correction Factor:
Sample Custody Seals:	Yes	No	Total Containers:

ANALYSIS REQUEST										Preservative Codes
of Containers/Preservative										HNO3: HN H2SO4: H2 HCL: HL None: NO NaOH: Na MeOH: Me Zn Acetate+ NaOH: Zn
E300										
21										
ified Ext										
005										

TAT starts the day received by the

[illegible]

Total	200.7 / 6010	200.8 / 6020;
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Circle Method(s) and Metal(s) to be analyzed

8RCRA

TCLP

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 damages of client company or its affiliates or subcontractors. A minimum charge of \$25.00 will be levied for any sample not analyzed.

1631 / 245.1 / 7470 / 7471 : Hg

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Reinquished by: (Signature)

Received by: (Signature)

Date/Time

XENCO**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) 820-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
 Atlanta, GA (770) 449-8800

Work Order No. 1600510www.xenco.com Page of

Project Manager: Joel Lowry

Company Name: Elech Environmental & Safety

Address: 3100 Plains Highway

City, State ZIP: Lovington, NM, 88260

Phone: 575-396-2378

Project Name: Bluebaray SWD

Project Number: 12335

Project Location

Sampler's Name: Eric Mojica

PO #:

SAMPLE RECEIPT

Temperature (°C): 20.0Received In tact: YesCooler Custody Seals: YesSample Custody Seals: Yes

Sample Identification

Matrix

Date

Time

Depth

Number of Containers/Preservative Code

Chloride E300

BTX 8021

TPH Modified Ext

TPH TX1005

ANALYSIS REQUEST

Preservative Codes

HNO3: HN

H2SO4: H2

HCL: HL

None: NO

NaOH: Na

MeOH: Me

Zn Acetate+ NaOH: Zn

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

Sample Comments

UC - A ✓

UC - B ✓

Total 200.7 / 6010 200.8 / 6020:

Circle Method(s) and Metal(s) to be analyzed

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 Ti Sn U V Zn

TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U

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Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Work Order Comments

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

State of Project:

Reporting Level: ☐ Level I ☐ Level II ☐ Level III ☐ Level IV ☐Deliverables: EDD ☐ ADAPT ☐ Other: ☐

Preservative Codes

HNO3: HN

H2SO4: H2

HCL: HL

None: NO

NaOH: Na

MeOH: Me

Zn Acetate+ NaOH: Zn

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

Sample Comments

ORIGIN ID: H0BA (070) 002-1000

**
MAIL SERVICES ETC, LLC
4008 N GRIMESCAD
DIMSHOBBS, NM 88240
UNITED STATES US

BILL

TO XENCO LABORATORIES HOLD FOR PICK
FEDEX EXPRESS SHIP CENTER
FEDEX EXPRESS SHIP CENTER
3600 COUNTY ROAD 1276 SOUTH

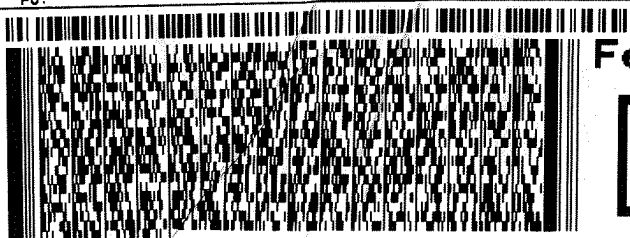
MIDLAND TX 79711

(432) 563-1800

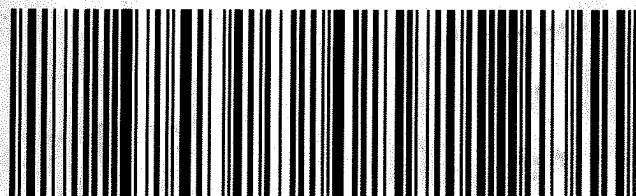
REF:

INV:
PO:

DEPT:

FedEx
ExpressTRK# 105 2523 5461
0201TUE - 05 MAY HOLD
PRIORITY OVERNIGHT
HLD

41 MAFA

MAFA
TX-US LBB

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 05.05.2020 10.35.00 AM

Work Order #: 660570

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)?	.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

BTEX was in bulk container

* 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: 05.06.2020

Checklist reviewed by:



Jessica Kramer

Date: 05.06.2020



Certificate of Analysis Summary 662025

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Blueberry SWD

Project Id: 12335
Contact: PM
Project Location: Rural Lea County, NM

Date Received in Lab: Wed 05.20.2020 10:46
Report Date: 05.21.2020 13:29
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	662025-001		662025-002		662025-003		662025-004			
	<i>Field Id:</i>	EOS B		OS4 B		FS2 B		OS2 B			
	<i>Depth:</i>										
	<i>Matrix:</i>	SOIL		SOIL		SOIL		SOIL			
	<i>Sampled:</i>	05.19.2020 08:30		05.19.2020 08:35		05.19.2020 08:40		05.19.2020 08:45			
TPH By SW8015 Mod	<i>Extracted:</i>	05.20.2020 11:00		05.20.2020 11:00		05.20.2020 11:00		05.20.2020 11:00			
	<i>Analyzed:</i>	05.20.2020 12:28		05.20.2020 13:25		05.20.2020 15:21		05.20.2020 14:03			
	<i>Units/RL:</i>	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<50.0	50.0	2830	250	<49.9	49.9		
Diesel Range Organics (DRO)		267	50.0	930	50.0	18500	250	63.8	49.9		
Motor Oil Range Hydrocarbons (MRO)		56.7	50.0	364	50.0	3380	250	<49.9	49.9		
Total TPH		324	50.0	1290	50.0	24700	250	63.8	49.9		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Jessica Kramer
Project Manager



Analytical Report 662025

for

Etech Environmental & Safety Solution, Inc

Project Manager: PM

Blueberry SWD

12335

05.21.2020

Collected By: Client



**1211 W. Florida Ave
Midland TX 79701**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-32), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-23), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
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 (T104704534-20-6)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



05.21.2020

Project Manager: **PM**

Etech Environmental & Safety Solution, Inc

P.O. Box 62228

Midland, TX 79711

Reference: XENCO Report No(s): **662025**

Blueberry SWD

Project Address: Rural Lea 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 XENCO Report Number(s) 662025. 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. 662025 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,

A handwritten signature in black ink that reads 'Jessica Kramer'.

Jessica Kramer

Project Manager

A Small Business and Minority Company

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

**Sample Cross Reference 662025****Etech Environmental & Safety Solution, Inc, Midland, TX**

Blueberry SWD

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
EOS B	S	05.19.2020 08:30		662025-001
OS4 B	S	05.19.2020 08:35		662025-002
FS2 B	S	05.19.2020 08:40		662025-003
OS2 B	S	05.19.2020 08:45		662025-004



CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Blueberry SWD

Project ID: 12335
Work Order Number(s): 662025

Report Date: 05.21.2020
Date Received: 05.20.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3126630 TPH By SW8015 Mod

Surrogate 1-Chlorooctane recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 662025-001 S.

Surrogate o-Terphenyl recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 662025-002.



Certificate of Analytical Results 662025

Etech Environmental & Safety Solution, Inc, Midland, TX

Blueberry SWD

Sample Id: **EOS B**
Lab Sample Id: 662025-001

Matrix: Soil
Date Collected: 05.19.2020 08:30

Date Received: 05.20.2020 10:46

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.20.2020 11:00

Basis: Wet Weight

Seq Number: 3126630

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.20.2020 12:28	U	1
Diesel Range Organics (DRO)	C10C28DRO	267	50.0	mg/kg	05.20.2020 12:28		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	56.7	50.0	mg/kg	05.20.2020 12:28		1
Total TPH	PHC635	324	50.0	mg/kg	05.20.2020 12:28		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	120	%	70-130	05.20.2020 12:28	
o-Terphenyl	84-15-1	129	%	70-130	05.20.2020 12:28	



Certificate of Analytical Results 662025

Etech Environmental & Safety Solution, Inc, Midland, TX

Blueberry SWD

Sample Id: **OS4 B**
Lab Sample Id: 662025-002

Matrix: Soil
Date Collected: 05.19.2020 08:35

Date Received: 05.20.2020 10:46

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.20.2020 11:00

Basis: Wet Weight

Seq Number: 3126630

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.20.2020 13:25	U	1
Diesel Range Organics (DRO)	C10C28DRO	930	50.0	mg/kg	05.20.2020 13:25		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	364	50.0	mg/kg	05.20.2020 13:25		1
Total TPH	PHC635	1290	50.0	mg/kg	05.20.2020 13:25		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	118	%	70-130	05.20.2020 13:25	
o-Terphenyl	84-15-1	155	%	70-130	05.20.2020 13:25	**



Certificate of Analytical Results 662025

Etech Environmental & Safety Solution, Inc, Midland, TX

Blueberry SWD

Sample Id: **FS2 B**
Lab Sample Id: 662025-003

Matrix: Soil
Date Collected: 05.19.2020 08:40

Date Received: 05.20.2020 10:46

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.20.2020 11:00

Basis: Wet Weight

Seq Number: 3126630

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	2830	250	mg/kg	05.20.2020 15:21		5
Diesel Range Organics (DRO)	C10C28DRO	18500	250	mg/kg	05.20.2020 15:21		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	3380	250	mg/kg	05.20.2020 15:21		5
Total TPH	PHC635	24700	250	mg/kg	05.20.2020 15:21		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-130	05.20.2020 15:21	
o-Terphenyl	84-15-1	87	%	70-130	05.20.2020 15:21	



Certificate of Analytical Results 662025

Etech Environmental & Safety Solution, Inc, Midland, TX

Blueberry SWD

Sample Id: **OS2 B**
Lab Sample Id: 662025-004

Matrix: Soil
Date Collected: 05.19.2020 08:45

Date Received: 05.20.2020 10:46

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.20.2020 11:00

Basis: Wet Weight

Seq Number: 3126630

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.20.2020 14:03	U	1
Diesel Range Organics (DRO)	C10C28DRO	63.8	49.9	mg/kg	05.20.2020 14:03		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.20.2020 14:03	U	1
Total TPH	PHC635	63.8	49.9	mg/kg	05.20.2020 14:03		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-130	05.20.2020 14:03	
o-Terphenyl	84-15-1	106	%	70-130	05.20.2020 14:03	



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



Etech Environmental & Safety Solution, Inc
Blueberry SWD

Analytical Method: TPH By SW8015 Mod

Seq Number: 3126630

MB Sample Id: 7703761-1-BLK

Matrix: Solid

LCS Sample Id: 7703761-1-BKS

Prep Method: SW8015P

Date Prep: 05.20.2020

LCSD Sample Id: 7703761-1-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	972	97	1090	109	70-130	11	20	mg/kg	05.20.2020 11:52	
Diesel Range Organics (DRO)	<50.0	1000	997	100	1090	109	70-130	9	20	mg/kg	05.20.2020 11:52	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	120		126		130		70-130	%	05.20.2020 11:52
o-Terphenyl	127		121		125		70-130	%	05.20.2020 11:52

Analytical Method: TPH By SW8015 Mod

Seq Number: 3126630

Matrix: Solid

MB Sample Id: 7703761-1-BLK

Prep Method: SW8015P

Date Prep: 05.20.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	05.20.2020 11:34	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3126630

Matrix: Soil

Parent Sample Id: 662025-001

MS Sample Id: 662025-001 S

Prep Method: SW8015P

Date Prep: 05.20.2020

MSD Sample Id: 662025-001 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	1150	115	941	94	70-130	20	20	mg/kg	05.20.2020 12:46	
Diesel Range Organics (DRO)	267	997	1210	95	1140	88	70-130	6	20	mg/kg	05.20.2020 12:46	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	139	**	123		70-130	%	05.20.2020 12:46
o-Terphenyl	127		116		70-130	%	05.20.2020 12:46

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

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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



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) 448-8800

Work Order No

10000

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Page 2 of 2

Project Manager:	Lance Crenshaw	Bill to: (if different)	Ralph Tijena
Company Name:	Etech Environmental and Safety	Company Name:	Goodnight Midstream
Address:	3100 Plains Hwy	Address:	
City, State ZIP:	Livingston, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to: <u>PM@etechny.com</u> + Client

Work Order Comments			
Program: US/PT ☐ PRF ☐ Brownfield ☐ RR ☐ Superfund ☐ State of Project: _____ Reporting Level ☐ Level ☐ PST/US ☐ TRF ☐ Level ☐ Deliverables: EDD ☐ ADAPT ☐ Other: _____			

[illegible]

Circle Method(s) and Metal(s) to be analyzed	Total 200.7 / 6010	200.8 / 6020:
8RCRA 13PPM	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn	
TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti 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 Xonoro, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xonoro 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 Xonoro. A minimum charge of \$7500 will be applied to each project and a charge of \$5 for each sample submitted to Xonoro, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>[Signature]</i>	<i>[Signature]</i>	10/25/15-19	2 <i>[Signature]</i>	<i>[Signature]</i>	5/20
3			4		
5			6		10/20

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 05.20.2020 10.46.00 AM

Work Order #: 662025

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)?	.6
#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: 05.20.2020

Checklist reviewed by:



Jessica Kramer

Date: 05.20.2020

**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701**



Analytical Report

Prepared for:

Santos Montoya
Premier Energy Services
2815 W. Industrial Ave
Midland, TX 79701

Project: Blueberry

Project Number: [none]

Location:

Lab Order Number: 0F25001



NELAP/TCEQ # T104704516-17-8

Report Date: 06/26/20

Premier Energy Services 2815 W. Industrial Ave Midland TX, 79701	Project: Blueberry Project Number: [none] Project Manager: Santos Montoya	Fax:
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS1A @ 5'	0F25001-01	Soil	06/24/20 00:00	06-25-2020 08:30
NS2B @ 5'	0F25001-02	Soil	06/24/20 00:00	06-25-2020 08:30

Premier Energy Services
2815 W. Industrial Ave
Midland TX, 79701

Project: Blueberry
Project Number: [none]
Project Manager: Santos Montoya

Fax:

SS1A @ 5'
0F25001-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00105	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B
Toluene	ND	0.00526	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B
Ethylbenzene	ND	0.00526	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B
Xylene (p/m)	0.0111	0.00526	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B
Xylene (o)	0.00536	0.00526	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B
Surrogate: 4-Bromofluorobenzene		87.3 %	75-125		P0F2409	06/24/20	06/25/20	EPA 8021B
Surrogate: 1,4-Difluorobenzene		97.4 %	75-125		P0F2409	06/24/20	06/25/20	EPA 8021B

General Chemistry Parameters by EPA / Standard Methods

Chloride	56.9	1.05	mg/kg dry	1	P0F2503	06/25/20	06/25/20	EPA 300.0
% Moisture	5.0	0.1	%	1	P0F2601	06/26/20	06/26/20	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P0F2502	06/25/20	06/25/20	TPH 8015M
>C12-C28	306	26.3	mg/kg dry	1	P0F2502	06/25/20	06/25/20	TPH 8015M
>C28-C35	ND	26.3	mg/kg dry	1	P0F2502	06/25/20	06/25/20	TPH 8015M
Surrogate: 1-Chlorooctane		99.0 %	70-130		P0F2502	06/25/20	06/25/20	TPH 8015M
Surrogate: o-Terphenyl		96.0 %	70-130		P0F2502	06/25/20	06/25/20	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	306	26.3	mg/kg dry	1	[CALC]	06/25/20	06/25/20	calc

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Premier Energy Services
2815 W. Industrial Ave
Midland TX, 79701

Project: Blueberry
Project Number: [none]
Project Manager: Santos Montoya

Fax:

NS2B @ 5'
0F25001-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00110	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Toluene	ND	0.00549	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Ethylbenzene	ND	0.00549	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Xylene (p/m)	ND	0.00549	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Xylene (o)	ND	0.00549	mg/kg dry	1	P0F2409	06/24/20	06/25/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		84.9 %	75-125		P0F2409	06/24/20	06/25/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.7 %	75-125		P0F2409	06/24/20	06/25/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	34.7	1.10	mg/kg dry	1	P0F2503	06/25/20	06/25/20	EPA 300.0	
% Moisture	9.0	0.1	%	1	P0F2601	06/26/20	06/26/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P0F2502	06/25/20	06/25/20	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P0F2502	06/25/20	06/25/20	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P0F2502	06/25/20	06/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		92.5 %	70-130		P0F2502	06/25/20	06/25/20	TPH 8015M	
Surrogate: o-Terphenyl		86.7 %	70-130		P0F2502	06/25/20	06/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	06/25/20	06/25/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Premier Energy Services
2815 W. Industrial Ave
Midland TX, 79701

Project: Blueberry
Project Number: [none]
Project Manager: Santos Montoya

Fax:

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0F2409 - General Preparation (GC)**Blank (P0F2409-BLK1)**

Prepared: 06/24/20 Analyzed: 06/25/20

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00500	"							
Ethylbenzene	ND	0.00500	"							
Xylene (p/m)	ND	0.00500	"							
Xylene (o)	ND	0.00500	"							
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.5	75-125			
Surrogate: 4-Bromofluorobenzene	0.103		"	0.120		85.7	75-125			

LCS (P0F2409-BS1)

Prepared: 06/24/20 Analyzed: 06/25/20

Benzene	0.106	0.00100	mg/kg wet	0.100		106	70-130			
Toluene	0.105	0.00500	"	0.100		105	70-130			
Ethylbenzene	0.112	0.00500	"	0.100		112	70-130			
Xylene (p/m)	0.213	0.00500	"	0.200		106	70-130			
Xylene (o)	0.114	0.00500	"	0.100		114	70-130			
Surrogate: 4-Bromofluorobenzene	0.103		"	0.120		85.7	75-125			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.6	75-125			

LCS Dup (P0F2409-BSD1)

Prepared: 06/24/20 Analyzed: 06/25/20

Benzene	0.103	0.00100	mg/kg wet	0.100		103	70-130	2.65	20	
Toluene	0.103	0.00500	"	0.100		103	70-130	2.02	20	
Ethylbenzene	0.112	0.00500	"	0.100		112	70-130	0.411	20	
Xylene (p/m)	0.211	0.00500	"	0.200		105	70-130	0.774	20	
Xylene (o)	0.113	0.00500	"	0.100		113	70-130	0.590	20	
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		94.8	75-125			
Surrogate: 4-Bromofluorobenzene	0.106		"	0.120		88.5	75-125			

Calibration Check (P0F2409-CCV1)

Prepared: 06/24/20 Analyzed: 06/25/20

Benzene	0.103	0.00100	mg/kg wet	0.100		103	80-120			
Toluene	0.102	0.00500	"	0.100		102	80-120			
Ethylbenzene	0.106	0.00500	"	0.100		106	80-120			
Xylene (p/m)	0.201	0.00500	"	0.200		100	80-120			
Xylene (o)	0.112	0.00500	"	0.100		112	80-120			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.103		"	0.120		86.0	75-125			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Premier Energy Services
2815 W. Industrial Ave
Midland TX, 79701

Project: Blueberry
Project Number: [none]
Project Manager: Santos Montoya

Fax:

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0F2409 - General Preparation (GC)**Calibration Check (P0F2409-CCV2)**

Prepared: 06/24/20 Analyzed: 06/25/20

Benzene	0.100	0.00100	mg/kg wet	0.100		100	80-120			
Toluene	0.0992	0.00500	"	0.100		99.2	80-120			
Ethylbenzene	0.104	0.00500	"	0.100		104	80-120			
Xylene (p/m)	0.196	0.00500	"	0.200		97.9	80-120			
Xylene (o)	0.108	0.00500	"	0.100		108	80-120			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		96.0	75-125			
Surrogate: 4-Bromofluorobenzene	0.107		"	0.120		89.0	75-125			

Calibration Check (P0F2409-CCV3)

Prepared: 06/24/20 Analyzed: 06/25/20

Benzene	0.0990	0.00100	mg/kg wet	0.100		99.0	80-120			
Toluene	0.0970	0.00500	"	0.100		97.0	80-120			
Ethylbenzene	0.100	0.00500	"	0.100		100	80-120			
Xylene (p/m)	0.186	0.00500	"	0.200		92.9	80-120			
Xylene (o)	0.101	0.00500	"	0.100		101	80-120			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.8	75-125			
Surrogate: 4-Bromofluorobenzene	0.101		"	0.120		84.4	75-125			

Matrix Spike (P0F2409-MS1)

Source: 0F23004-05

Prepared: 06/24/20 Analyzed: 06/25/20

Benzene	0.0869	0.00103	mg/kg dry	0.103	ND	84.3	80-120			
Toluene	0.0786	0.00515	"	0.103	0.00772	68.7	80-120			QM-05
Ethylbenzene	0.0863	0.00515	"	0.103	0.00652	77.4	80-120			QM-05
Xylene (p/m)	0.147	0.00515	"	0.206	0.0257	59.0	80-120			QM-05
Xylene (o)	0.0800	0.00515	"	0.103	0.00676	71.1	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	0.119		"	0.124		96.2	75-125			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.124		96.7	75-125			

Matrix Spike Dup (P0F2409-MSD1)

Source: 0F23004-05

Prepared: 06/24/20 Analyzed: 06/25/20

Benzene	0.0849	0.00103	mg/kg dry	0.103	ND	82.4	80-120	2.33	20	
Toluene	0.0771	0.00515	"	0.103	0.00772	67.2	80-120	2.18	20	QM-05
Ethylbenzene	0.0842	0.00515	"	0.103	0.00652	75.3	80-120	2.71	20	QM-05
Xylene (p/m)	0.137	0.00515	"	0.206	0.0257	54.0	80-120	8.89	20	QM-05
Xylene (o)	0.0726	0.00515	"	0.103	0.00676	63.9	80-120	10.6	20	QM-05
Surrogate: 4-Bromofluorobenzene	0.112		"	0.124		90.3	75-125			
Surrogate: 1,4-Difluorobenzene	0.121		"	0.124		97.8	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Premier Energy Services
2815 W. Industrial Ave
Midland TX, 79701

Project: Blueberry
Project Number: [none]
Project Manager: Santos Montoya

Fax:

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0F2503 - *** DEFAULT PREP ***										
LCS (P0F2503-BS1)				Prepared & Analyzed: 06/25/20						
Chloride	397	1.00	mg/kg wet	400		99.4	80-120			
LCS Dup (P0F2503-BSD1)				Prepared & Analyzed: 06/25/20						
Chloride	396	1.00	mg/kg wet	400		99.1	80-120	0.239	20	
Calibration Check (P0F2503-CCV1)				Prepared & Analyzed: 06/25/20						
Chloride	19.1		mg/kg	20.0		95.6	0-200			
Calibration Check (P0F2503-CCV2)				Prepared & Analyzed: 06/25/20						
Chloride	19.1		mg/kg	20.0		95.7	0-200			
Matrix Spike (P0F2503-MS1)		Source: 0F25001-01		Prepared & Analyzed: 06/25/20						
Chloride	556	1.05	mg/kg dry	526	56.9	94.9	80-120			
Matrix Spike Dup (P0F2503-MSD1)		Source: 0F25001-01		Prepared & Analyzed: 06/25/20						
Chloride	546	1.05	mg/kg dry	526	56.9	93.0	80-120	1.79	20	
Batch P0F2601 - *** DEFAULT PREP ***										
Blank (P0F2601-BLK1)				Prepared & Analyzed: 06/26/20						
% Moisture	ND	0.1	%							
Duplicate (P0F2601-DUP1)		Source: 0F25004-10		Prepared & Analyzed: 06/26/20						
% Moisture	10.0	0.1	%		11.0			9.52	20	

Premier Energy Services
2815 W. Industrial Ave
Midland TX, 79701

Project: Blueberry
Project Number: [none]
Project Manager: Santos Montoya

Fax:

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0F2502 - TX 1005**Blank (P0F2502-BLK1)**

Prepared & Analyzed: 06/25/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	105		"	100		105	70-130			
Surrogate: o-Terphenyl	46.4		"	50.0		92.7	70-130			

LCS (P0F2502-BS1)

Prepared & Analyzed: 06/25/20

C6-C12	878	25.0	mg/kg wet	1000		87.8	75-125			
>C12-C28	928	25.0	"	1000		92.8	75-125			
Surrogate: 1-Chlorooctane	94.3		"	100		94.3	70-130			
Surrogate: o-Terphenyl	41.6		"	50.0		83.1	70-130			

LCS Dup (P0F2502-BSD1)

Prepared & Analyzed: 06/25/20

C6-C12	888	25.0	mg/kg wet	1000		88.8	75-125	1.11	20	
>C12-C28	1010	25.0	"	1000		101	75-125	8.32	20	
Surrogate: 1-Chlorooctane	95.2		"	100		95.2	70-130			
Surrogate: o-Terphenyl	41.6		"	50.0		83.1	70-130			

Calibration Check (P0F2502-CCV1)

Prepared & Analyzed: 06/25/20

C6-C12	554	25.0	mg/kg wet	500		111	85-115			
>C12-C28	558	25.0	"	500		112	85-115			
Surrogate: 1-Chlorooctane	101		"	100		101	70-130			
Surrogate: o-Terphenyl	43.8		"	50.0		87.5	70-130			

Calibration Check (P0F2502-CCV2)

Prepared & Analyzed: 06/25/20

C6-C12	560	25.0	mg/kg wet	500		112	85-115			
>C12-C28	564	25.0	"	500		113	85-115			
Surrogate: 1-Chlorooctane	103		"	100		103	70-130			
Surrogate: o-Terphenyl	45.6		"	50.0		91.1	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Premier Energy Services
2815 W. Industrial Ave
Midland TX, 79701

Project: Blueberry
Project Number: [none]
Project Manager: Santos Montoya

Fax:

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0F2502 - TX 1005**Calibration Check (P0F2502-CCV3)**

Prepared: 06/25/20 Analyzed: 06/26/20

C6-C12	546	25.0	mg/kg wet	500		109	85-115			
>C12-C28	566	25.0	"	500		113	85-115			
Surrogate: 1-Chlorooctane	105		"	100		105	70-130			
Surrogate: o-Terphenyl	47.3		"	50.0		94.6	70-130			

Matrix Spike (P0F2502-MS1)

Source: 0F24009-01

Prepared & Analyzed: 06/25/20

C6-C12	1080	129	mg/kg dry	1030	109	93.7	75-125			
>C12-C28	3130	129	"	1030	2310	79.5	75-125			
Surrogate: 1-Chlorooctane	91.0		"	103		88.2	70-130			
Surrogate: o-Terphenyl	43.1		"	51.5		83.6	70-130			

Matrix Spike Dup (P0F2502-MSD1)

Source: 0F24009-01

Prepared & Analyzed: 06/25/20

C6-C12	1080	129	mg/kg dry	1030	109	94.2	75-125	0.484	20	
>C12-C28	3080	129	"	1030	2310	75.0	75-125	5.94	20	
Surrogate: 1-Chlorooctane	91.4		"	103		88.7	70-130			
Surrogate: o-Terphenyl	43.1		"	51.5		83.7	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Premier Energy Services
2815 W. Industrial Ave
Midland TX, 79701

Project: Blueberry
Project Number: [none]
Project Manager: Santos Montoya

Fax:

Notes and Definitions

ROI	Received on Ice
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
BULK	Samples received in Bulk soil containers
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By:



Date:

6/26/2020

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

PERMAN LAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701

Phone: 432-686-7235

Project Manager:

SANTOS MONTOYA

Project Name:

Blueberry Facility

Company Name

GOODWIGHT MISTINE & AM

Project #:

Company Address:

Project Loc:

City/State/Zip:

PO #:

Telephone No:

Fax No:

Report Format

☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature:

e-mail:

(lab use only)

ORDER #: 0185001

Preservation & # of Containers

Matrix

Analyze For:

TCLP:

TOTAL:

LAB # (lab use only)

FIELD CODE

Beginning Depth

Ending Depth

Date Sampled

Time Sampled

Field Filtered

Total #. of Containers

Ice

HNO₃

HCl

H₂SO₄

NaOH

Na₂S₂O₃

None

Other (Specify)

DW=Drinking Water SL=Sludge

GW=Groundwater S=Soil/Solid

NP=Non-Potable Specify Other

TPH: TX 1005 TX 1006

Anions (Cl, SO₄, Alkalinity)

BTEX 8021B/5050 or BTEX 8280

RUSH TAT (Pre-Schedule) 24, 48, 72 hrs

Standard TAT

Special Instructions:

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

Laboratory Comments:

Sample Containers (112/12)

Labels on containers (112/12)

Custody seals on containers (112/12)

Sample Hand Delivered:

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 64°F

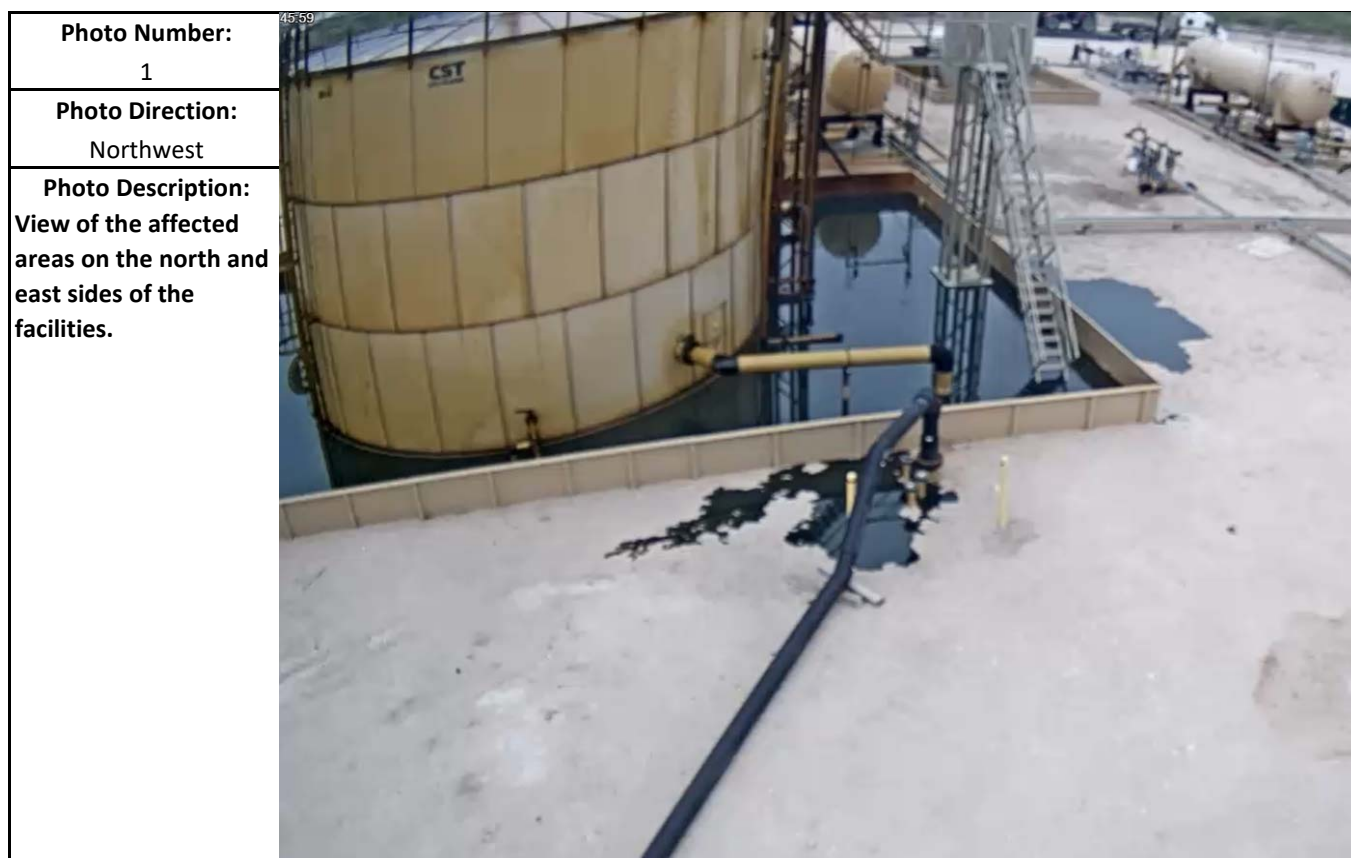
Received: 5/2/20

C Factor: 0.2

Appendix D

Photographic Log

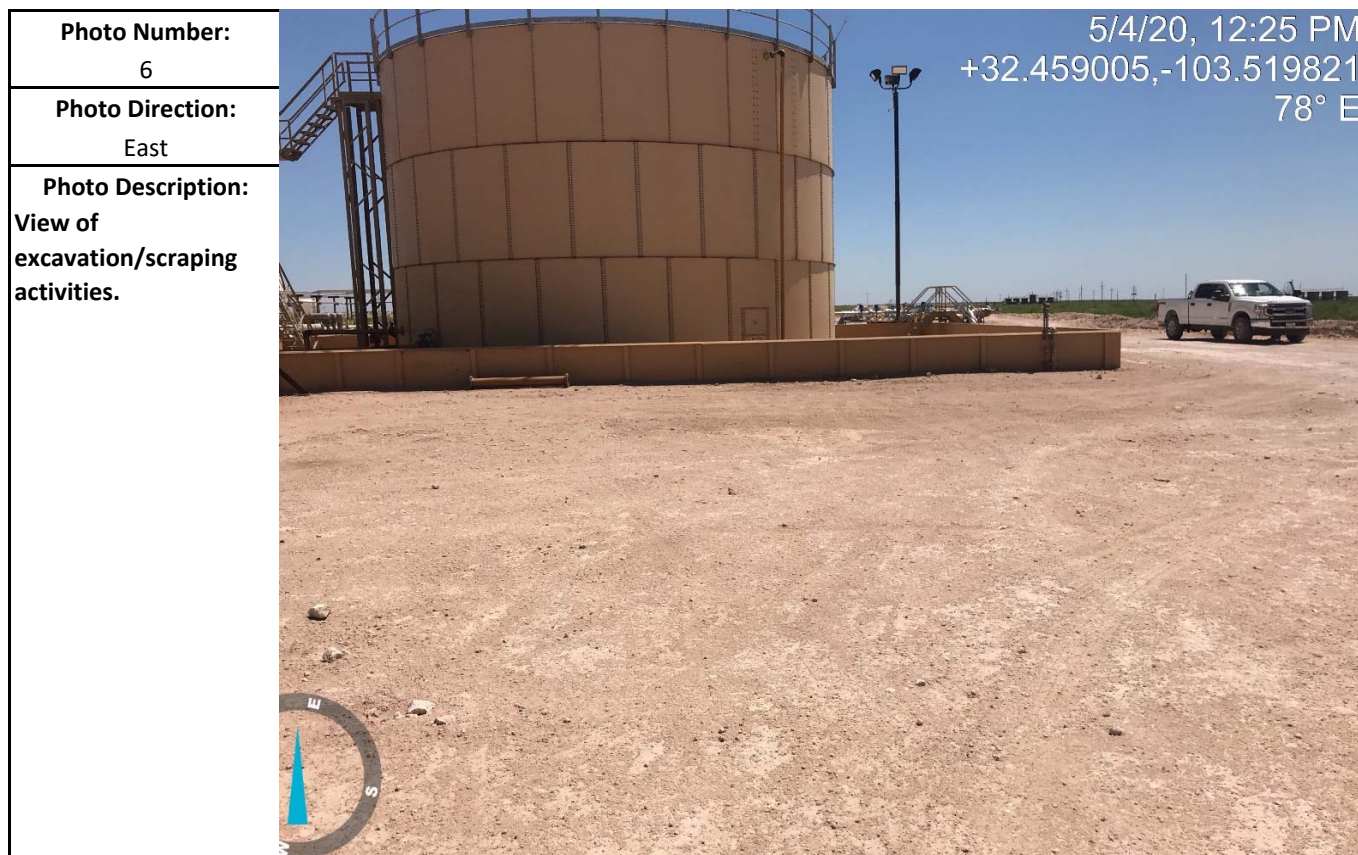
Photographic Log



Photographic Log



Photographic Log



Photographic Log

Photo Number:

7

Photo Direction:

South

Photo Description:

View of excavated area
on east side of
containment.

