



June 10, 2020

Reference No. NRM2000659184, GHD 11205561

Mr. Mike Bratcher
New Mexico Oil Conservation Division
811 South First Street
Artesia, New Mexico 88210

VIA E-MAIL ONLY
mike.bratcher@state.nm.us

Dear Mr. Bratcher:

**Re: Site Characterization Report and Remediation Plan - Revised
EnLink Falcon CDP Release, Incident Number NRM2000659184
D-2-T24S-R29E, Eddy County, New Mexico**

1. Introduction

GHD Services, Inc. (GHD), on behalf of EnLink Midstream Operating, LP (EnLink), submits this revised Site Characterization Report and Remediation Plan to the New Mexico Oil Conservation Division (NMOCD) District 2 Office for Incident Number NRM2000659184. A previous submittal was denied because of inadequate depth to groundwater information. This Site Characterization Report and Remediation Plan provides documentation of delineation, sampling, analyses, and planned activities to remediate soil in the affected area at the EnLink Falcon CDP Release Site (Site). The Site is located in Unit Letter D Section 2 of Township 24 South and Range 29 East in Eddy County, New Mexico. The release was initially reported to have occurred at 32.251927°N latitude and 103.962253°W longitude. The release occurred on New Mexico State Land Office (NMSLO) property. The northern section is leased by EnLink Delaware Crude Pipeline LLC, where the Falcon CDP facility has operations. The southern section where the oil path terminated is a sandy field. Many facilities for production of oil and gas exist in the area. The site location is presented on Figure 1. The EnLink Falcon leased facility, State Lands (offsite) areas and other Site Details, including a soil boring installed on May 27, 2020, to evaluate depth to groundwater are depicted on Figure 2.

2. Release Information and Response Activities

The release was discovered on November 2, 2019 and reported to the NMOCD via email. The initial C-141 submitted to the NMOCD was dated November 13, 2019 and is shown in Appendix A. Approximately 1,501 barrels (bbl.) of crude oil were released with approximately

100 bbl recovered. The release occurred due to a third party contractor improperly installing a pig signal on the Falcon pipeline. The pig signal failed and created an opening in the line. No produced water or other fluids containing chlorides were released during this incident. As shown in the site figures, the oil was released as a moderate spray that covered the area around the pigging unit, accumulated on the pad and flowed in a southerly direction offsite for approximately 600 feet into a sandy, pasture area. The spill crossed over an Enterprise crude oil pipeline/ROW located approximately 300 feet south of the pad where the oil appeared to accumulate and exhibit a 'waxy coating' in the heavier areas. The affected areas are represented on Figures 2, 3, 4 and 5.

As part of EnLink's initial response activities, impacted soil from the pipeline right-of-way and surrounding source area were excavated to contain the release and to ensure a safe working area for pipeline repairs. GHD provided consulting services including mapping of the affected source and larger spray areas. GHD also collected three samples of soil for the purpose of waste characterization of soil that was excavated from the pipeline right-of-way during repair of the pipeline and soil scraped from the surrounding surface during initial response actions to contain the release. A total of 1,259.95 tons of impacted soils were removed from the heavier impacted areas in the source area of the release. The soils were classified as non-exempt on the approved C-138 Form and disposed at the Lea Land, LLC landfill (OCD Permit WM-1-035) located northeast of Carlsbad, New Mexico.

No work could be conducted regarding the State Lands flow path area until a Right-of-Entry (ROE) permit was obtained. The ROE permit was requested by EnLink from the NMSLO on November 19, 2019. The ROE permit was obtained in early January 2020 and will expire at the end of June 2020.

3. Groundwater and Regulatory Framework

The depth to groundwater at the Falcon site was evaluated by a soil boring installed on May 27, 2020 at a location on the EnLink lease as shown on Figure 2. The total depth of the borehole/temporary well was measured at 56.5 feet below ground surface. Temporary well materials, including a 20 foot section of 0.020-inch slotted two-inch PVC screen was installed in the bottom of the borehole and allowed to stand for approximately 120 hours. A water level probe was used to gauge the temporary well and no groundwater was encountered. Consequently, the depth to groundwater was determined to be greater than 56.5 feet. Copies of the Atkins Engineering Associates, Inc. report on the boring installation are provided in Appendix B.

GHD characterized the Site according to Table 1, *Closure Criteria for Soils Impacted by a Release*, from New Mexico Administrative Code (NMAC) Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12). The release falls under the jurisdiction of the NMOCD District 2 in Artesia, New Mexico. NMAC Title 19, Chapter 15, Part 29, Section 11 (A), Section A requires that the responsible party submit information characterizing the release to the appropriate division district office within 90 days of discovery of the release. NMOCD previously granted

an extension to submit this information by April 30, 2020, which EnLink did – however, the report was denied because of inadequate groundwater determination information.

According to the site characterization evaluation, the area is in a medium karst and no other receptor (water wells, playas, watercourse, wetlands, lakebeds or ordinance boundaries) were located within each specific boundaries or distance from the site. The groundwater data and the site characterization documentation are provided in Appendix B. The groundwater and closure criteria are listed below:

General Site Characterization and Groundwater:

Site Characterization	Average Groundwater Depth (ft.)
No Receptors	>50 feet.

Delineation and Closure Criteria:

Table 1. Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29.12)

Minimum Depth Below Any Point Within the Horizontal Boundary of the Release to Groundwater with <10,000 mg/L TDS	Constituent	Method	Limit
Surface to Groundwater 51-100 feet	Chloride	EPA300.0 or SM4500 Cl B	10,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	TPH (GRO+DRO)	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

Constituent methods and limits noted in bold print in Table 1 for soil 51 to 100 feet below the ground surface are used to guide assessment and remediation of the area affected by this release, since the Site does not have any receptors based on the site characterization. A map noting the location of the Site on the BLM Karst Map is in Appendix B. Chloride limits in Table 1 do not apply to remediation of this release, since the release did not include produced water or other fluids that contained chlorides.

4. Site Characterization

In addition to regulatory desktop reviews and November 2019 response actions noted in the previous sections, soil assessment activities were also performed at the Site in four phases. Soil samples discussed below were taken to Xenco Laboratories in Midland, Texas for total-petroleum-hydrocarbons (TPH) analysis by method SW8015 Modified and benzene, toluene,

ethylbenzene, and xylenes (BTEX) by EPA Method 8021B. The soil analytical results are summarized in Table 1 and Laboratory Reports and Chain-of-Control Documentation are provided in Appendix C. Figure 3 provides soil assessment details on the EnLink leased property (pad area) and Figure 4 shows sampling results in the off pad area to the south on State Lands.

On November 4 and 5, 2019 GHD collected 17 soil samples from the EnLink Property/Lease area. Two test pits were installed, test pit 1 and 2, and two samples were collected from each, TP-1-5', TW-17', TP-2-5' and TP-2-10'. Additionally ten surface samples were collected at four-inches below ground surface (bgs; SS-1-4" through SS-10-4") and three hand auger samples were collected (HA-1-3', HA-2-5' and HA-3-3'). None of the samples exhibited benzene or BTEX concentrations above NMOCD limits as stated above. None of the samples with the exception of two, SS-4-4" and SS-5-4", exhibited TPH concentrations above NMOCD limits as stated above. Soil sample SS-4-4" exhibited a TPH concentration of 3,100 mg/kg which is above the NMOCD limits of 2,500 (GRO+DRO+MRO) and soil sample SS-5-4" exhibited a TPH concentration of 1,146.5 mg/kg for GRO+DRO which is above the NMOCD limit of 1,000 mg/kg.

On January 9, 2020, once EnLink obtained a NMSLO Right-of-Entry permit, GHD collected 15 soil samples from the flow path on State Land from depths ranging from one to 2.5 feet bgs. Soil samples SL-1@1', SL-3@2', SL-9@1', SL-12A@4' and SL-13@1.5' exhibited BTEX and TPH concentrations below NMOCD limits as stated above. All other samples exhibited BTEX and/or TPH concentrations above NMOCD limits.

On February 11, 2020, GHD collected an additional ten soil samples (ES-1 @ 1' through ES-10 @ 1') from the EnLink property surface in shallow, spray area locations. None of the soil samples exhibited TPH or BTEX concentrations above NMOCD limits stated above. Five soil sample locations in the release area were analyzed for chlorides by EPA Methods 300.0: SL-5A@4', SL-12A@4', SL-15A@4', HD-2@0-6" and HD-13@0-6". All five locations exhibited concentrations of 5.40 mg/kg chlorides or less. Consequently, in the future, chlorides are not considered to be a factor in site delineation and remediation concerns.

After evaluation of data received, GHD collected additional samples on February 27, 2020. Two soil samples were collected from the EnLink property/lease, 16 soil samples from the State Land flow path area and fifteen horizontal samples were collected from around the perimeter of the release area in all directions. The two soil samples collected from the EnLink property/lease, ES-7A @ 3' and ES-11 @ 3.5' exhibited TPH and BTEX concentrations below the NMOCD limits stated above. The soil samples collected from the State Land Flow Path were collected from previously sampled locations, at deeper depths, ranging from four and one half feet to eight feet bgs, to achieve further vertical delineation. All of the samples collected from State Land Flow Path on February 27, 2020, except for one, SL-4A @4.5' exhibited TPH and BTEX concentrations below the NMOCD limits stated above. Fifteen horizontal delineation samples were collected at zero to six-inches from around the impacted areas (HD-1 through HD-15). All of these samples exhibited TPH and BTEX concentrations below the applicable NMOCD limits, to effectively delineate the horizontal extent of impacts from the release. Based on analytical results all areas have been vertically delineated for

benzene below 10 mg/kg, BTEX below 50 mg/kg and TPH below 1,000 mg/kg for GRO+DRO and 2,500 mg/kg for GRO+DRO+MRO with the exception of area represented by soil samples SS-4-4", SS-5-4" and SL-4A@4.5'. Figure 5 – Cross Section demonstrates, based on representative sampling methods, that the vertical extent of hydrocarbon impacts above NMOC thresholds are effectively limited to the top 2'-4' of the sandy soil profile along the spill flow path.

5. Remediation Plan

This remediation plan is based on site characterization and soil assessment results presented in this document. The vertical and horizontal extent of impacts have been effectively delineated for the purposes of developing this plan. The affected areas are divided into two portions – the EnLink Falcon CDP southern pad source and spray areas and, the offsite (to south) State Lands flow path properties. The proposed remedial activities are designed to safely and effectively reduce hydrocarbon concentrations to below applicable Table 1 Closure Criteria and restoration/reclamation guidelines.

Restoration/reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations of less than 600 mg/kg, TPH concentrations of no more than 100 mg/kg, total BTEX concentrations of no more than 50 mg/kg and a benzene concentration of no more than 10 mg/kg.

EnLink Southern Pad Remediation:

Impacted areas in the southern pad area on the EnLink lease have been remediated in the source area by the removal of 1,259.95 tons of materials disposed of at the Lea Land, LLC facility. Assessment and confirmation sampling demonstrate that the impacts were shallow in nature as illustrated in Figure 3. One sample point, SS-5-4", exhibited GRO and DRO TPH concentrations greater than Table 1 closure criteria for groundwater 51-100 feet bgs of 1,000 mg/kg and one sample point, SS-4-4", exhibited total TPH (GRO, DRO, and MRO) concentrations above Table 1 closure criteria of 2,500 mg/kg. The two areas represented by soil samples SS-4-4" and SS-5-4" will be resampled. If analytical results indicate TPH concentrations are less than 1,000 mg/kg for GRO and DRO and 2,500 mg/kg for total TPH (GRO, DRO, and MRO) a request for closure regarding the pad area will be submitted. If analytical results indicate TPH concentrations above Table 1 closure criteria the area(s) will be remediated to below Table 1 Closure Criteria based on groundwater depth of >51 to 100 feet bgs. Remediation of isolated areas may not be possible due to the vicinity to pipelines. Remediation activities would involve removal of impacted soils above regulatory levels and placing on plastic adjacent to the remedial excavations and include aeration and/or bioremediation methods to reduce hydrocarbon concentrations. Confirmation sampling will be conducted to verify soil removal and remediation activities were performed in compliance with OCD guidelines.

State Lands Flow Path Area Remediation:

Field observations reveal that the release flowed off the southern edge of the Falcon CDP pad in a southerly direction, for approximately 600 feet into an undeveloped field on State

Land property. The spill channels bifurcate in narrow, sinuous patterns across the field. Site soils are loose, eolian sand deposits. An Enterprise crude oil pipeline bisects the flow path, approximately halfway along the spill path. The width of the spill channels are typically in the range of 3-5 feet, except along the pipeline ROW where the release width spreads out in the range of 50-100 feet. The width and depth of impacts decreased significantly south of the pipeline ROW. Figure 4 shows the affected areas and soil assessment sampling locations and TPH concentrations. The surface footprint of the spill path area was measured using a plainimeter to have a surface area of 27,275 square feet. Figure 5 illustrates the vertical profile of soil impacts and findings that the depth of impacts above regulatory levels are in the range of 2'-4' below the ground surface.

The estimated area requiring remediation in the State Lands flow path area is based on an estimated surface area of 27,275 square feet and an average depth of 3 feet. Accordingly, the estimated volume of impacted, sandy soils requiring remediation are approximately 4,000 cubic yards. Areas in the sandy, undeveloped field, will be remediated to below Table 1 Closure Criteria based on groundwater depth of ≤ 50 feet bgs in the first four feet for TPH, benzene and BTEX and groundwater depth of > 51 to 100 feet bgs for deeper impacted areas. Remediation activities will involve removal of impacted soils above regulatory levels and placed on plastic adjacent to the remedial excavation and include aeration and/or bioremediation methods to reduce hydrocarbon concentrations. Confirmation sampling will be conducted to verify soil removal and remediation activities were performed in compliance with OCD guidelines.

Proposed Sampling Plan:

Excavation Confirmation Samples: Once impacted soils from the 27,275 square feet area (to approximately 3 feet in depth) have been excavated, soil confirmation samples will be collected from the excavated area and analyzed for TPH and BTEX. To collect representative samples, five-point composite samples will be collected every 1,000 square feet from the excavation sidewalls and bottom. Discrete soil samples will be collected from the excavation if any "hot spots" are encountered during the excavation. The confirmation soil samples will be submitted to the laboratory for TPH analysis by method SW8015 Modified and BTEX by EPA Method 8021B. As appropriate and based on field conditions, additional deeper or lateral confirmation soil samples may be collected and analyzed to achieve Table 1 Closure Criteria standards.

Removal and Remediated Soil Confirmation Sampling: Confirmation soil samples will be collected from the removed soils on plastic adjacent to the remedial excavations subsequent to aeration and/or bioremediation activities. To collect representative samples, five-point composite samples will be collected in 500 cubic yard increments. The confirmation soil samples will be submitted to the laboratory for TPH analysis by method SW8015 Modified and BTEX by EPA Method 8021B. As appropriate and based on previous analytical results, additional confirmation samples of the aerated and/or bioremediated soils may be collected and analyzed to achieve Table 1 Closure Criteria standards. Soils exhibiting concentrations less than 600 mg/kg chlorides, TPH less than 100 mg/kg, total BTEX less than 50 mg/kg and benzene less than 10 mg/kg will be used to backfill the remedial excavations.

6.0 Remediation Timeframe and Estimated Volume

The remediation will be performed within 90 days after the work plan has been approved. Approximately 4,000 cubic yards of soil will be remediated on plastic adjacent to the excavations and pending acceptable TPH and BTEX concentrations – utilized to backfill the remedial excavations.

7.0 Site Reclamation and Restoration

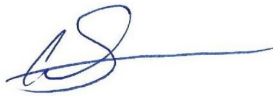
Subsequent to aeration and bioremediation activities in the State Lands offsite, undeveloped field – this area will be seeded with the New Mexico State Land Office required seed mixture. The area will be monitored for re-vegetation.

Proposed remedial work has been planned by GHD in coordination with EnLink and its subcontractors. GHD understands that EnLink has obtained appropriate regulatory agency approvals prior to implementation of the remediation plan.

If you have any questions or comments concerning this Site Characterization Report and Remediation Plan, please do not hesitate to contact our Midland office at (432) 686-0086.

Sincerely,

GHD



Glenn Quinney
Project Manager
Manager



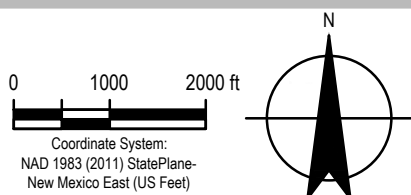
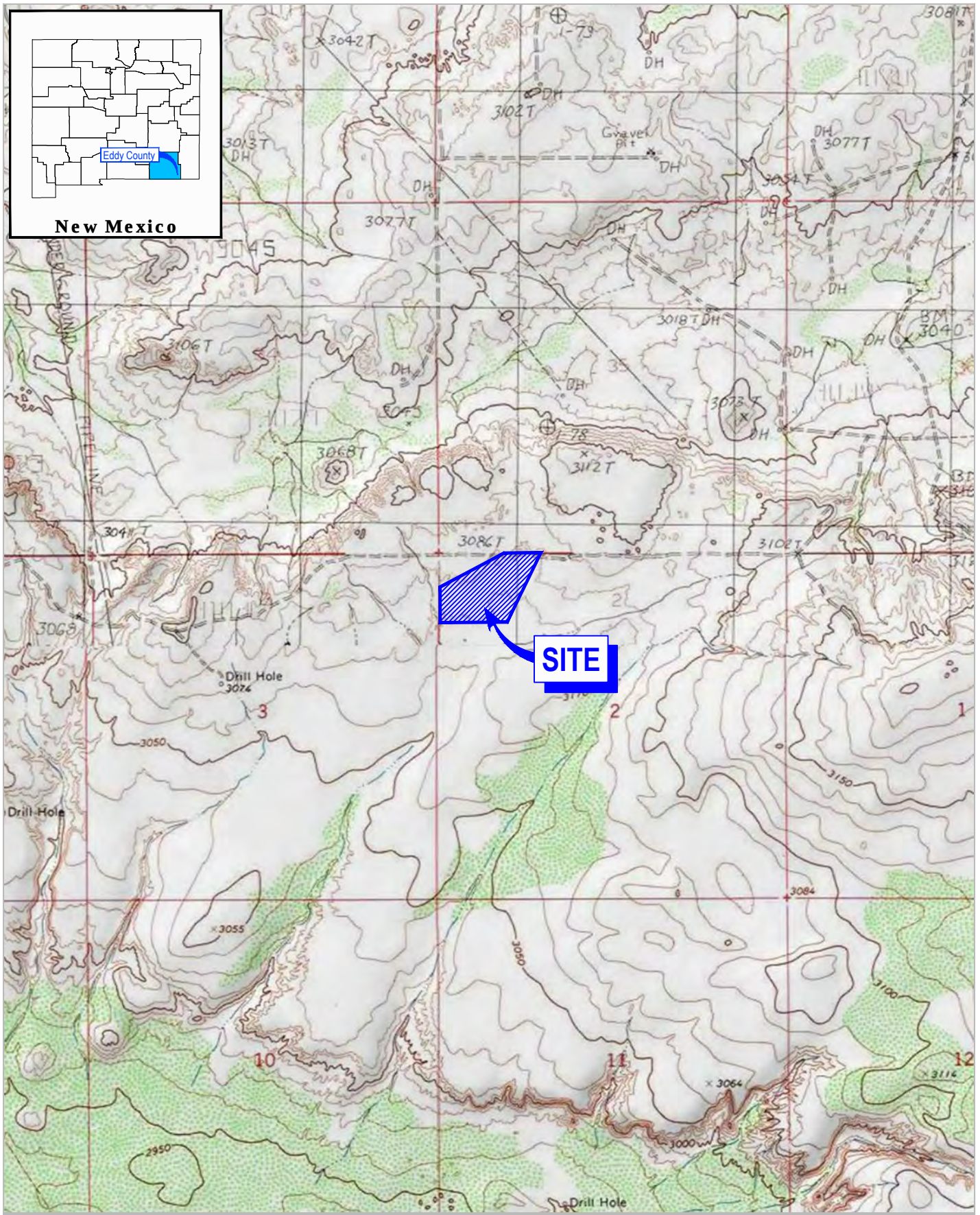
Thomas C. Larson, M.S.
Associate, Midland Operations

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- Encl. Figure 1– Site Location Map
Figure 2 – Site Details
Figure 3 – EnLink Leased Property Soil Assessment Map
Figure 4 – State Lands Property Soil Assessment Map
Figure 5 – Cross Section of TPH Sample Results – State Lands
Table 1 – Soil Analytical Summary
Appendix A – C-141, Pages 1-5
Appendix B – Site Characterization Documentation
Appendix C – Laboratory Analytical Reports and Chain-of-Custody Documentation

cc: Ryan Mann, New Mexico State Land Office

Figures

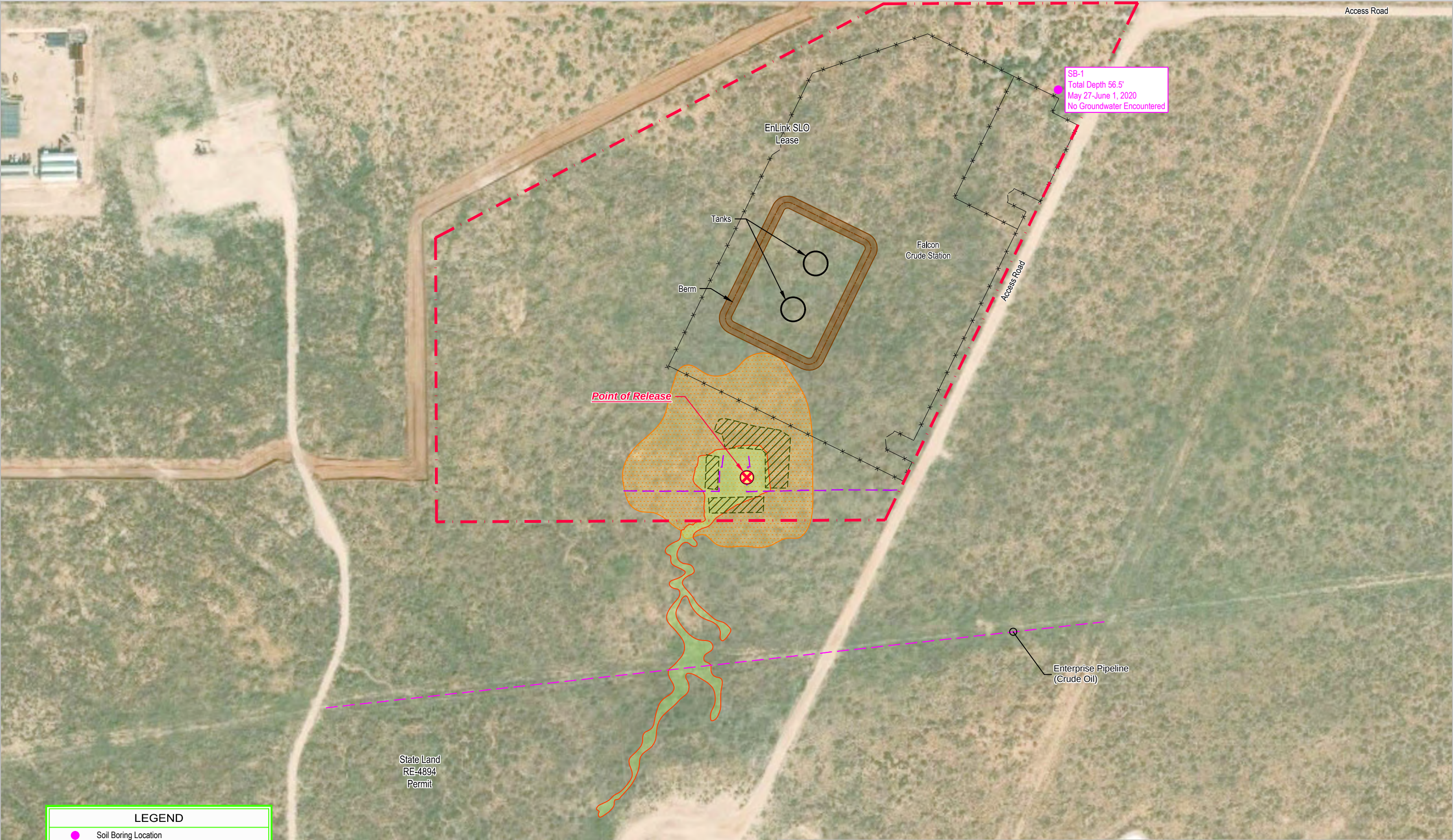


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SITE LOCATION MAP

FIGURE 1



LEGEND

Soil Boring Location

Approximate Spill Path Area

Approximate Heavy Spray Area

Approximate Scraped Area

Enlink Crude Pipeline

Fence Line

Approximate EnLink Site Boundary/Lease

0

100

200 ft

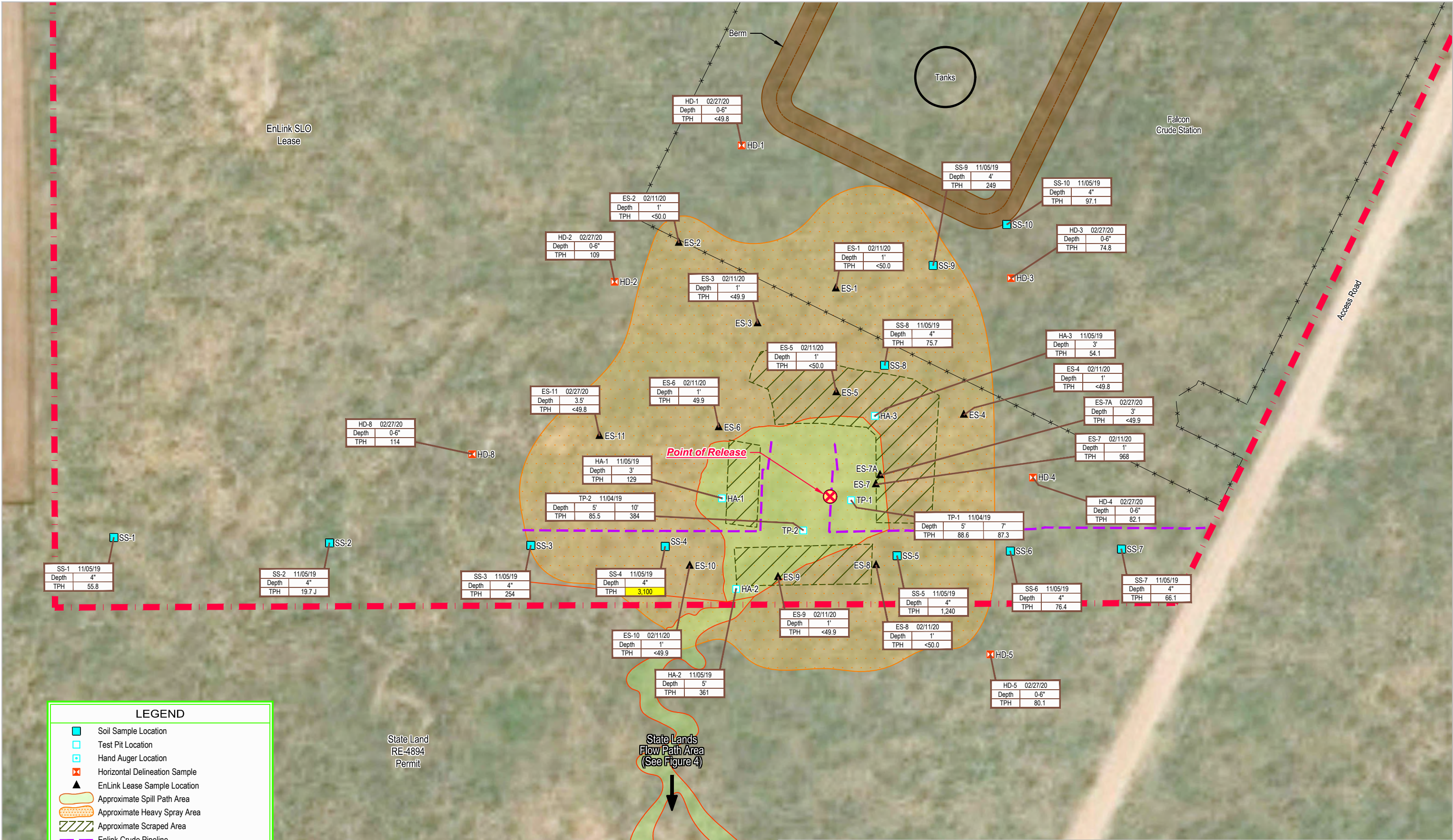
Coordinate System:
NAD 1983 (2011) StatePlane-
New Mexico East (US Feet)

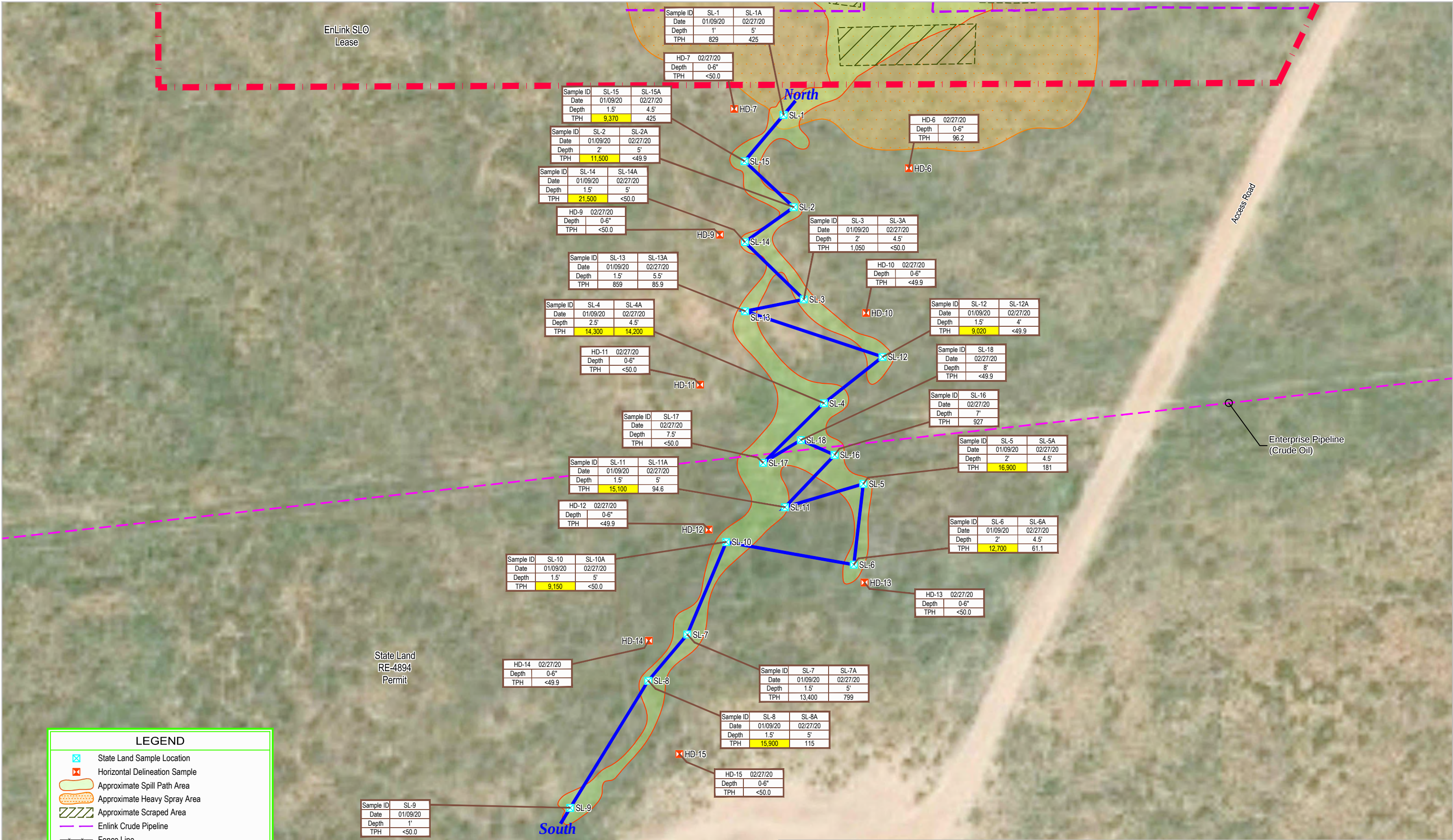
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LEGEND

State Land Sample Location

Horizontal Delineation Sample

Approximate Spill Path Area

Approximate Heavy Spray Area

Approximate Scraped Area

Enlink Crude Pipeline

Fence Line

Approximate EnLink Site Boundary/Lease

Cross Section Profile Provided in Figure 5

Depth

Depth of Sample (feet or inches)

TPH

Total Petroleum Hydrocarbons Concentration (mg/kg)

J

Indicates Estimated Concentration

- NOTES:
- Analytical results reported in milligrams per kilogram (mg/kg).
 - Full analytical Results summarized in Table 1.
 - Highlighted cells indicate exceedance above applicable Table 1 Closure Criteria.
 - Sample ID's abbreviated.

04080 ft

Coordinate System:
NAD 1983 (2011) StatePlane-
New Mexico East (US Feet)

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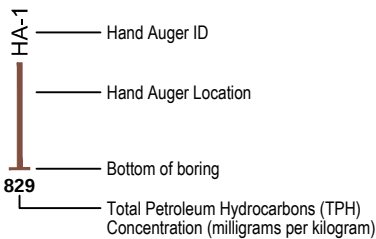
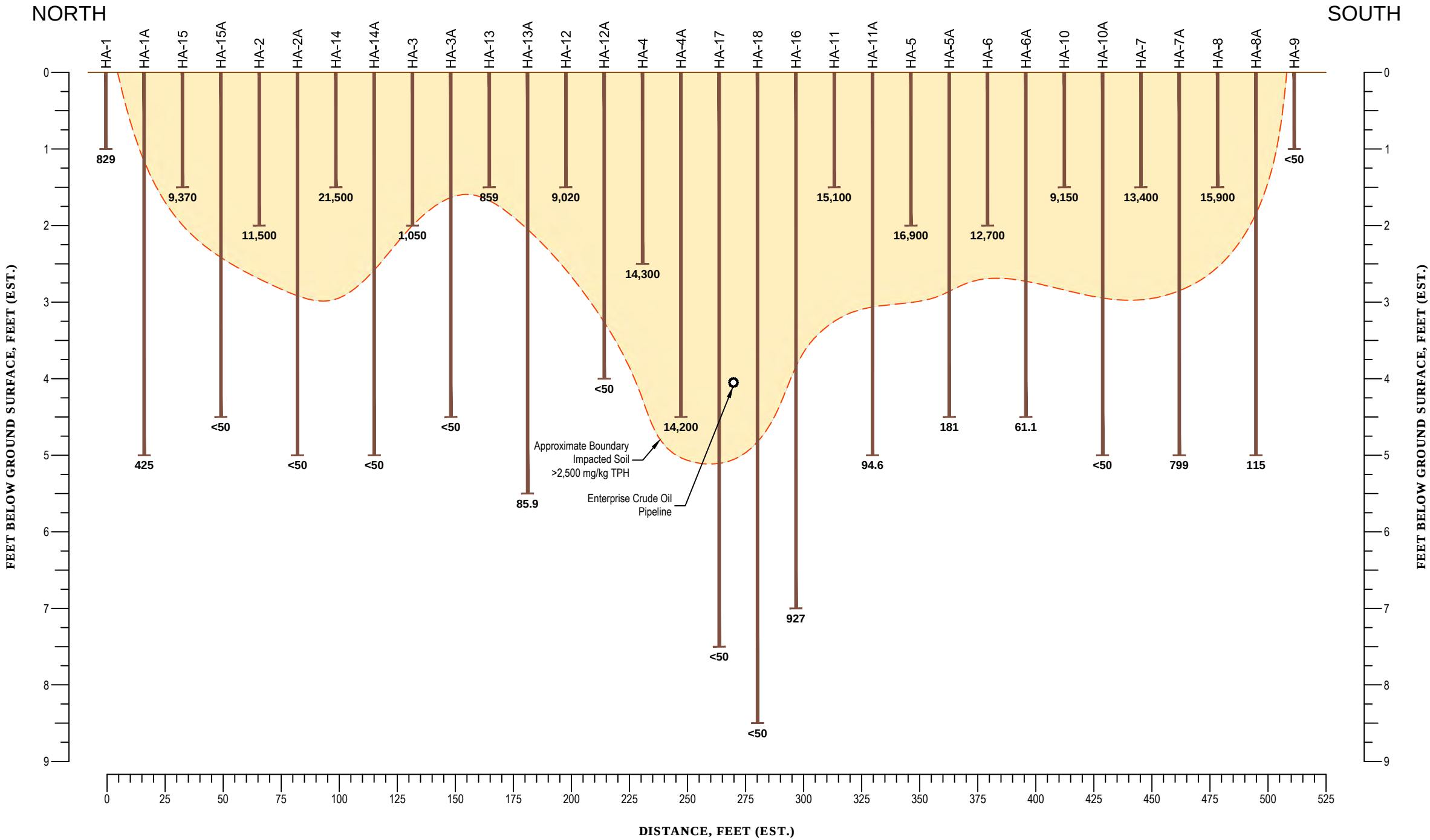
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STATE LANDS PROPERTY
SOIL ASSESSMENT MAP

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FIGURE 4



NOTES:

1. Hand auger and sample ID's abbreviated. See Table 1 for details.
2. Sampling event dates: November 4, 2019, February 11, 2020, and February 27, 2020.
3. Line of section presented in Figure 4.

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CROSS SECTION OF TPH SAMPLE RESULTS - STATE LANDS

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FIGURE 5

Tables

Table 1
Soil Analytical Data Summary - Sampling Results
Falcon CDP Release Site
EnLink Midstream
Eddy County, New Mexico

Sample ID	Sample Date	Depth (inches or feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH			
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	GRO(C6-C10)	DRO(C10-C28)	MRO (C28-C35)	Total GRO/DRO/MRO
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
			Table I Closure Criteria for Soils >50 feet to 100 feet Depth to Groundwater 19.15.29 NMAC								
			10 mg/Kg	---	---	---	50 mg/Kg	---	---	---	2,500 mg/Kg
RELEASE ASSESSMENT ANALYTICAL RESULTS - ENLINK PROPERTY/LEASE											
TP-1-5'	11/4/19	5'	<0.000504	0.000806 J	0.00244	0.00312	0.0021	18.2 J	41.3 J	29.1 J	88.6
TP-1-7'	11/4/19	7'	<0.000502	<0.000502	<0.000502	<0.000502	<0.000502	18.0 J	38.0 J	31.3 J	87.3
TP-2-5'	11/4/19	5'	<0.000497	<0.000497	<0.000497	<0.000497	<0.000497	18.2 J	37.6 J	29.7 J	85.5
TP-2-10'	11/4/19	10'	<0.000499	0.00119	0.00302	0.0192	0.0235	17.2 J	339	28.0 J	384
SS-1-4"	11/5/19	4"	<0.000498	<0.000498	0.00966 J	0.00968	0.0106	15.9 J	18.1 J	21.8 J	55.8
SS-2-4"	11/5/19	4"	<0.000502	0.000673 J	0.00369	0.00427	0.00863	<13.8	<11.4	19.7 J	19.7 J
SS-3-4"	11/5/19	4"	<0.000505	0.000707 J	0.0033	0.00373	0.00774	16.7 J	215	21.9 J	254
SS-4-4"	11/5/19	4"	<0.0100	0.154	0.057200	0.0704	0.282	22.5 J	2,840	235	3,100
SS-5-4"	11/5/19	4"	<0.0104	0.219	0.021900	0.628	0.869	36.5 J	1,110	92.5	1,240
SS-6-4"	11/5/19	4"	<0.000499	<0.000499	<0.000499	0.0159	0.0159	19.0 J	38.2 J	19.2 J	76.4
SS-7-4"	11/5/19	4"	<0.000498	<0.000498	<0.000498	<0.000498	<0.000498	15.4 J	15.1 J	35.6 J	66.1
SS-8-4"	11/5/19	4"	<0.000501	<0.000501	0.000631 J	<0.000501	0.000631 J	16.0 J	18.1 J	41.6 J	75.7
SS-9-4"	11/5/19	4"	<0.000499	<0.000499	0.000539 J	<0.000499	0.000539 J	15.0 J	208	26.4	249
SS-10-4"	11/5/19	4"	<0.000503	0.002100	<0.000503	<0.000503	0.002100	15.8 J	49.0 J	32.3	97.1
HA-1-3'	11/5/19	3'	<0.000503	<0.000503	0.052	0.0448	0.0968	14.2 J	88.4	26.2 J	129
HA-2-5'	11/5/19	5'	<0.000498	0.0195	0.0114	0.0393	0.0527	20.1 J	318	22.7 J	361
HA-3-3'	11/5/19	3'	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	15.0 J	12.0 J	27.1 J	54.1
ES-1 @ 1'	2/11/20	1'	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0
ES-2 @ 1'	2/11/20	1'	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0
ES-3 @ 1'	2/11/20	1'	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9
ES-4 @ 1'	2/11/20	1'	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<49.8	<49.8	<49.8	<49.8
ES-5 @ 1'	2/11/20	1'	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0
ES-6 @ 1'	2/11/20	1'	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9
ES-7 @ 1'	2/11/20	1'	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<49.8	848	120	968
ES-7A @ 3'	2/27/20	3'	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<49.9	<49.9	<49.9	<49.9
ES-8 @ 1'	2/11/20	1'	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0
ES-9 @ 1'	2/11/20	1'	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9
ES-10 @ 1'	2/11/20	1'	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9
ES-11 @ 3.5'	2/27/20	3.5	<0.000992	<0.000992	<0.000992	<0.000992	<0.000992	<49.8	<49.8	<49.8	<49.8
STATE LAND - FLOWPATH SAMPLES											
SL-1@1'	1/9/20	1'	<0.00201	0.00422	0.00479	0.123	0.132	160	615	54.4	829
SL-1A@5'	2/27/20	5'	<0.00100	<0.00100	<0.00100	0.00721	0.00721	<49.9	425	<49.9	425

Table 1
Soil Analytical Data Summary - Sampling Results
Falcon CDP Release Site
EnLink Midstream
Eddy County, New Mexico

Sample ID	Sample Date	Depth (inches or feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH			
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	GRO(C6-C10)	DRO(C10-C28)	MRO (C28-C35)	Total GRO/DRO/MRO
			Table I Closure Criteria for Soils >50 feet to 100 feet Depth to Groundwater 19.15.29 NMAC								
			10 mg/Kg	---	---	---	50 mg/Kg	---	---	---	2,500 mg/Kg
SL-2@2'	1/9/20	2'	1.01	27.2	5.74	75.2	109	4,270	6,720	549	11,500
SL-2A@5'	2/27/20	5'	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<49.9	<49.9	<49.9	<49.9
SL-3@2'	1/9/20	2'	<0.00200	0.0244	0.131	0.426	0.581	281	687	83.6	1,050
SL-3A@4.5'	2/27/20	4.5'	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<50.0	<50.0	<50.0	<50.0
SL-4@2.5'	1/9/20	2.5'	1.12	18.1	6.19	64.4	89.8	5,310	8,110	846	14,300
SL-4A@4.5'	2/27/20	4.5'	0.165	2.08	0.602	7.44	10.3	4,890	8,480	860	14,200
SL-5@2'	1/9/20	2'	0.437	19.7	6.68	70.7	97.5	6,270	9,740	866	16,900
SL-5A@4.5'	2/27/20	4.5'	<0.000994	0.00358	0.00835	0.0434	0.0553	<50.0	128	53.4	181
SL-6@2'	1/9/20	2'	0.423	17.7	5.02	55.8	78.9	4,210	7,640	886	12,700
SL-6A@4.5'	2/27/20	4.5'	<0.00101	<0.00101	<0.00101	0.00604	0.00604	<49.8	61.1	<49.8	61.1
SL-7@1.5'	1/9/20	1.5'	0.662	18.8	6.44	70.5	96.4	4,830	7,870	731	13,400
SL-7A@5'	2/27/20	5'	<0.000996	<0.000996	<0.000996	0.00478	0.00578	65.0	662	71.5	799
SL-8@1.5'	1/9/20	1.5'	0.394	14.2	6.32	68.7	89.6	5,470	9,520	881	15,900
SL-8A@5'	2/27/20	5'	<0.000990	<0.000990	<0.000990	0.00198	0.00198	<49.9	115	<49.9	115
SL-9@1'	1/9/20	1'	<0.00202	0.00219	<0.00202	0.00972	0.0119	<50.0	<50.0	<50.0	<50.0
SL-10@1.5'	1/9/20	1.5'	0.275	9.59	4.05	46.6	60.5	2,840	5,790	520	9,150
SL-10A@5'	2/27/20	5'	<0.000990	<0.000990	<0.000990	<0.000990	<0.000990	<50.0	<50.0	<50.0	<50.0
SL-11@1.5'	1/9/20	1.5'	<0.198	5.92	3.37	47.9	57.2	4,470	9,700	904	15,100
SL-11A@5'	2/27/20	5'	v	<0.00100	<0.00100	<0.00100	<0.00100	<50.0	94.6	<50.0	94.6
SL-12@1.5'	1/9/20	1.5'	<0.199	5.73	2.87	36.4	45	2,940	5,600	477	9,020
SL-12A@4'	1/9/20	4'	<0.000994	<0.000994	<0.000994	<0.000994	<0.000994	<49.9	<49.9	<49.9	<49.9
SL-13@1.5'	1/9/20	1.5'	<0.00199	0.00613	0.0224	0.478	0.507	167	614	78.4	859
SL-13A@5.5'	2/27/20	5.5'	<0.000990	<0.000990	<0.000990	<0.000990	<0.000990	<50.0	85.9	<50.0	85.9
SL-14@1.5'	1/9/20	1.5'	0.584	19.4	6.61	68.0	94.6	7,430	12,900	1,140	21,500
SL-14A@5'	2/27/20	5'	<0.000994	<0.000994	<0.000994	<0.000994	<0.000994	<50.0	<50.0	<50.0	<50.0
SL-15@1.5'	1/9/20	1.5'	<0.202	1.21	1.34	19.1	21.7	2,510	6,280	581	9,370
SL-15A@4.5'	2/27/20	4.5'	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<49.9	<49.9	<49.9	<49.9
SL-16@7'	2/27/20	7'	<0.00100	<0.00100	<0.00100	0.0697	0.0697	169	701	56.9	927
SL-17@7.5'	2/27/20	7.5'	<0.000994	<0.000994	<0.000994	<0.000994	<0.000994	<50.0	<50.0	<50.0	<50.0
SL-18@8'	2/27/20	8"	<0.00100	<0.00100	<0.00100	0.00110	0.00110	<49.9	<49.9	<49.9	<49.9
HORIZONTAL DELINEATION SAMPLES											
HD-1	2/27/20	0-6"	<0.000996	<0.000996	<0.000996	<0.000996	<0.000996	<49.8	<49.8	<49.8	<49.8
HD-2	2/27/20	0-6"	<0.000990	<0.000990	<0.000990	<0.000990	<0.000990	<49.9	109	<49.9	109

Table 1
Soil Analytical Data Summary - Sampling Results
Falcon CDP Release Site
EnLink Midstream
Eddy County, New Mexico

Page 3 of 3

Sample ID	Sample Date	Depth (inches or feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH			
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	GRO(C6-C10)	DRO(C10-C28)	MRO (C28-C35)	Total GRO/DRO/MRO
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
			Table I Closure Criteria for Soils >50 feet to 100 feet Depth to Groundwater 19.15.29 NMAC								
			10 mg/Kg	---	---	---	50 mg/Kg	---	---	---	2,500 mg/Kg
HD-3	2/27/20	0-6"	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<49.8	74.8	<49.8	74.8
HD-4	2/27/20	0-6"	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<50.0	82.1	<50.0	82.1
HD-5	2/27/20	0-6"	<0.000998	<0.000998	<0.000998	<0.000998	<0.000998	<50.0	80.1	<50.0	80.1
HD-6	2/27/20	0-6"	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<49.9	96.2	<49.9	96.2
HD-7	2/27/20	0-6"	<0.000994	<0.000994	<0.000994	<0.000994	<0.000994	<50.0	<50.0	<50.0	<50.0
HD-8	2/27/20	0-6"	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<49.8	114	<49.8	114
HD-9	2/27/20	0-6"	<0.000994	<0.000994	<0.000994	<0.000994	<0.000994	<50.0	<50.0	<50.0	<50.0
HD-10	2/27/20	0-6"	<0.000996	<0.000996	<0.000996	<0.000996	<0.000996	<49.9	<49.9	<49.9	<49.9
HD-11	2/27/20	0-6"	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<50.0	<50.0	<50.0	<50.0
HD-12	2/27/20	0-6"	<0.000994	<0.000994	<0.000994	<0.000994	<0.000994	<49.9	<49.9	<49.9	<49.9
HD-13	2/27/20	0-6"	<0.000994	<0.000994	<0.000994	<0.000994	<0.000994	<50.0	<50.0	<50.0	<50.0
HD-14	2/27/20	0-6"	<0.000994	<0.000994	<0.000994	<0.000994	<0.000994	<49.9	<49.9	<49.9	<49.9
HD-15	2/27/20	0-6"	<0.000992	<0.000992	<0.000992	<0.000992	<0.000992	<50.0	<50.0	<50.0	<50.0

1. Values reported in mg/kg
2. < = Value Less than Reporting Limit (RL)
3. Bold Indicates Analyte Detected
- 4 BTEX analyses by EPA Method SW 8021B.

5. TPH analyses by EPA Method SW 8015 Mod.
6. GRO/DRO/MRO = Gasoline/Diesel/Motor Oil
7. Yellow shaded cells indicate analytical samples that exceed the NMOC 19.15.29.12 Table 1 Closure Criteria for the site.
8. J - the target analytes was positively identified below the quantitation limit and above the detection limit.

TP - Test Pit sample collected near release source area
SS - Soil Sample collected in shallow spray area.
HA - Hand Auger sample collected off of pad area.

Appendices

Appendix A

C-141, Pages 1-5

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

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

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

Incident ID	NRM2000659184
District RP	
Facility ID	
Application ID	

Release Notification

8KXYJ-191113-C-1410

Responsible Party

Responsible Party	EnLink Midstream Operating, LP	OGRID	373760
Contact Name	Trevor O. Baird	Contact Telephone	432-661-0541
Contact email	trevor.baird@enlink.com	Incident #	(assigned by OCD)
Contact mailing address	303 W Wall Street Suite 202, Midland TX, 79701		

Location of Release Source

Latitude 32.251927 Longitude -103.962253
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Falcon CDP	Site Type	Crude Station
Date Release Discovered	11/2/19	API#	(if applicable)

Unit Letter	Section	Township	Range	County
D	2	24S	29E	Eddy

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

Nature and Volume of Release

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

☒ Crude Oil	Volume Released (bbls) 1501	Volume Recovered (bbls) 100
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

A pig signal was improperly installed by a third party contractor on the Falcon pipeline. The pig signal failed and created an opening in the line.

Form C-141

Page 2

State of New Mexico
Oil Conservation Division

Incident ID	NRM2000659184
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? Under the mentioned rule, this spill qualifies as major because it was greater than 25 bbls.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, by Trevor Baird, Lead Environmental Engineer to Jim Griswold and Mike Bratcher via email at or around 1:30 PM on 11/2/19.	

Initial Response

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

☒ The source of the release has been stopped. ☒ The impacted area has been secured to protect human health and the environment. ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. ☐ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: EnLink has removed all free liquid on the leased land. However, EnLink is working with the State Land Office to gain right of way access to finish the cleanup efforts.	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Trevor O. Baird, P.E</u>	Title: <u>Lead Environmental Engineer</u>
Signature: _____	Date: <u>11/13/19</u>
email: <u>trevor.baird@enlink.com</u>	Telephone: <u>432-221-9738</u>
<u>OCD Only</u>	
Received by: <u>Ramona Marcus</u>	Date: <u>1/6/2019</u>

Incident ID	NRM2000659184
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>>51</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	NRM2000659184
District RP	
Facility ID	
Application ID	

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

Printed Name: Trevor O. Baird, P.E. Title: Lead Environmental Engineer

Signature: _____ Date: _____

email: trevor.baird@enlink.com Telephone: 432-221-9738

OCD Only

Received by: _____ Date: _____

Incident ID	NRM2000659184
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

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

Printed Name: Trevor O. Baird, P.E. Title: Lead Environmental Engineer
Signature: _____ Date: _____
email: trevor.baird@enlink.com Telephone: 432-221-9738

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

Appendix B

Site Characterization Documentation



June 4, 2020

Trevor Baird
Lead Enviromental Engineer
EnLink Midstream, LLC

Falcon Location Goundwater Determination

Mr. Baird,

Resolute Compliance, LLC (Resolute) was recently contracted Atkins Engineering Associates Inc (AEA) to conduct a groundwater determination for the falcon site Located at approximately 32.2534620, - 103.959474. Details of the activities along with the findings from this exercise can be found in the attached report from. Should you have any queestions regarding this information, or require any further details, please don't heesitate to reach to me directly at 972-842-4302 or via email a gm@resolutecompliance.com.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Grant McAfee', with a stylized, cursive script.

Grant McAfee
President
Resolute Compliance, LLC



2904 W 2nd St.
Roswell, NM 88201
voice: 575.624.2420
fax: 575.624.2421
www.atkinseng.com

June 4, 2020

Grant McAfee
Resolute Compliance
115 FM 2453, Suite A
Royse City, TX 75189

Re: Groundwater determination for Falcon Site, Eddy County, New Mexico

Mr. McAfee:

Atkins Engineering Associates, Inc. (AEA) submits this report of a groundwater determination for the Falcon site located at approximately 32.2534620°, -103.959474° in the NWNW Lot 3 (Unit D) of Section 002, Township 24 South, Range 29 East, N.M.P.M. Eddy County, New Mexico.

Drilling and Plugging Operations

On May 27, 2020, AEA mobilized to site. boring was advanced using the 3.25" i.d. hollow stem augers to approximately 56 feet below ground surface (bgs). During drilling, no apparent water was pushed to surface. Material consisted of sand to total depth where auger refusal occurred.

Center tooling was removed, and temporary well materials were landed consisting of 20 feet of 0.020" slotted 2" Sch 40 PVC screen set at 36.5-56.5 feet bgs with riser to above land surface. A water level probe was lower within the casing and no water was detected with a total depth measured at 56.5 feet bgs.

Approximately 120 hours later, on June 1, 2020, AEA mobilized to site, and checked for water—none was found. The temporary well materials were pulled, and the boring was abandoned using .10 feet of hydrated 3/8" bentonite Hole Plug, native backfill to 4 feet bgs and cement grout and bentonite Hole Plug to land surface.

Summary

The depth to ground water below the site is **greater than 56.5 feet**. If you have any questions, please contact me at lucas@atkinseng.com or 575.499.9244.

Sincerely

A handwritten signature in dark ink that reads "Lucas Middleton". The signature is written in a cursive, flowing style.

Lucas Middleton
Staff Geoscientist

Attachments: As noted above

Log

SB-1

Page 1 of 1

Client: Resolute Compliance

Completion Date

6/1/2020

Latitude

32.254620

Drilling Contractor

Atkins Engineering

Longitude

-103.959474°

Drilling Method

Hollow Stem Auger

Surface Elevation (ft)

approx. 3080'

Boring Diameter

3.25 i.d.

Total Depth (ft)

56

Location: Falcon

Purpose: Boring to determine groundwater presence

Project: rcfalco.drl.20

Depth in Feet	Lithology	USCS	Description	Abandonment
0				
5				
10		SP	Sand, Medium/Fine grained, poorly graded with Calchie, Light Brown (7.5 YR 6/4) -Dry	
15				
20		SP	Sand, Fine grained, poorly graded, Light Brown (7.5 YR 6/4) -Dry	
25				
30				
35		SP	Sand, Medium/Fine grained, poorly graded, with Calchie, Brown (7.5 YR 56/) -Dry	
40				
45		SP	Sand, Fine grained, poorly graded, Brown (7.5 YR 4/4) -Dry	
50				
55		SP	Sand, Fine grained, poorly graded & Stiff Clay, Reddish Brown (5.0 YR 5/6) -Dry	

-  Bentonite Seal
-  Neat Cement/Bentonite
-  Native Fill

Lithology Legend

 Sand

NOTES:

Atkins
ENGINEERING ASSOCIATES

2904 W 2nd St
Roswell, New Mexico 88201



New Mexico Office of the State Engineer Water Column/Average Depth to Water

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

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 597825.39

Northing (Y): 3568797.34

Radius: 2400

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.

3/25/20 1:03 PM

WATER COLUMN/ AVERAGE
DEPTH TO WATER

Falcon CDP Facility Release

Karst Map
32.2516 -103.9615

Legend

High

Low

Medium

Release Site Location

 Release Site Location

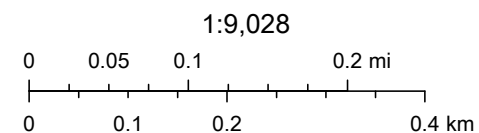


OSE Public Print



3/25/2020 2:06:30 PM

 OSE District Boundary



Esri, HERE, Garmin, (c) OpenStreetMap contributors, Esri, HERE, Garmin,



U.S. Fish and Wildlife Service

National Wetlands Inventory

Falcon CDP Facility Release

Received by OCD: 6/11/2020 10:59:04 AM



March 25, 2020

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Appendix C

Laboratory Analytical Reports and Chain-of-Custody Documentation



Certificate of Analysis Summary 642191

GHD Services, INC- Midland, Midland, TX

Project Name: Enlink Falcon CDP

Project Id:

Contact: Tom Larson

Project Location: Lea

Date Received in Lab: Wed 11.06.2019 09:16

Report Date: 11.07.2019 15:19

Project Manager: Debbie Simmons

<i>Analysis Requested</i>	<i>Lab Id:</i>	642191-001	642191-002	642191-003	642191-004	642191-005	642191-006
	<i>Field Id:</i>	SS-1-4"	SS-2-4"	SS-3-4"	SS-4-4"	SS-5-4"	SS-6-4"
	<i>Depth:</i>	4- In	4- In	4- In	4- In	4- In	4- In
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	11.05.2019 13:30	11.05.2019 13:35	11.05.2019 13:40	11.05.2019 13:45	11.05.2019 13:50	11.05.2019 13:55
BTEX by EPA 8021B	<i>Extracted:</i>	11.06.2019 15:00	11.06.2019 15:00	11.06.2019 15:00	11.06.2019 15:00	11.06.2019 15:00	11.06.2019 15:00
	<i>Analyzed:</i>	11.06.2019 17:37	11.06.2019 17:56	11.06.2019 18:15	11.06.2019 18:35	11.06.2019 18:54	11.06.2019 19:13
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.000498 0.000996	<0.000502 0.00100	<0.000505 0.00101	<0.0100 0.0200	<0.0104 0.0208	<0.000499 0.000998
Toluene		<0.000498 0.000996	0.000673 J 0.00100	0.000707 J 0.00101	0.154 0.0200	0.219 0.0208	<0.000499 0.000998
Ethylbenzene		0.000966 J 0.000996	0.00369 0.00100	0.00330 0.00101	0.0572 0.0200	0.0219 0.0208	<0.000499 0.000998
m,p-Xylenes		0.00680 0.00199	0.00321 0.00201	0.00287 0.00202	0.0498 0.0400	0.113 0.0417	0.00111 J 0.00200
o-Xylene		0.00288 0.000996	0.00106 0.00100	0.000859 J 0.00101	0.0206 0.0200	0.515 0.0208	0.0148 0.000998
Total Xylenes		0.00968 0.000996	0.00427 0.00100	0.00373 0.00101	0.0704 0.0200	0.628 0.0208	0.0159 0.000998
Total BTEX		0.0106 0.000996	0.00863 0.00100	0.00774 0.00101	0.282 0.0200	0.869 0.0208	0.0159 0.000998
TPH By SW8015 Mod	<i>Extracted:</i>	11.06.2019 11:00	11.06.2019 12:00	11.06.2019 12:00	11.06.2019 12:00	11.06.2019 12:00	11.06.2019 12:00
	<i>Analyzed:</i>	11.06.2019 11:57	11.06.2019 12:57	11.06.2019 13:16	11.06.2019 13:36	11.06.2019 13:56	11.07.2019 00:27
	<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)		15.9 J 50.2	<13.8 49.8	16.7 J 50.0	22.5 J 50.3	36.5 J 50.3	19.0 J 50.2
Diesel Range Organics (DRO)		18.1 J 50.2	<11.4 49.8	215 50.0	2840 50.3	1110 50.3	38.2 J 50.2
Motor Oil Range Hydrocarbons (MRO)		21.8 J 50.2	19.7 J 49.8	21.9 J 50.0	235 50.3	92.5 50.3	19.2 J 50.2
Total TPH		55.8 50.2	19.7 J 49.8	254 50.0	3100 50.3	1240 50.3	76.4 50.2

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

Debbie Simmons
Project Manager



Certificate of Analysis Summary 642191

GHD Services, INC- Midland, Midland, TX

Project Name: Enlink Falcon CDP

Project Id:

Contact: Tom Larson

Project Location: Lea

Date Received in Lab: Wed 11.06.2019 09:16

Report Date: 11.07.2019 15:19

Project Manager: Debbie Simmons

<i>Analysis Requested</i>	<i>Lab Id:</i>	642191-007	642191-008	642191-009	642191-010	642191-011	642191-012
	<i>Field Id:</i>	SS-7-4"	SS-8-4"	SS-9-4"	SS-10-4"	TP-1-5'	TP-1-7'
	<i>Depth:</i>	4- In	4- In	4- In	4- In	5- ft	7- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	11.05.2019 14:00	11.05.2019 14:15	11.05.2019 14:20	11.05.2019 14:28	11.04.2019 14:20	11.04.2019 14:25
BTEX by EPA 8021B	<i>Extracted:</i>	11.06.2019 15:00	11.06.2019 15:00	11.06.2019 15:00	11.06.2019 15:00	11.06.2019 09:40	11.06.2019 09:40
	<i>Analyzed:</i>	11.06.2019 19:32	11.06.2019 19:51	11.06.2019 20:10	11.06.2019 20:29	11.06.2019 14:18	11.06.2019 14:38
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.000498 0.000996	<0.000501 0.00100	<0.000499 0.000998	<0.000503 0.00101	<0.000504 0.00101	<0.000502 0.00100
Toluene		<0.000498 0.000996	<0.000501 0.00100	<0.000499 0.000998	0.00210 0.00101	0.000806 J 0.00101	<0.000502 0.00100
Ethylbenzene		<0.000498 0.000996	0.000631 J 0.00100	0.000539 J 0.000998	<0.000503 0.00101	0.00244 0.00101	<0.000502 0.00100
m,p-Xylenes		<0.000996 0.00199	<0.00100 0.00200	<0.000998 0.00200	<0.00101 0.00201	0.00209 0.00202	<0.00100 0.00201
o-Xylene		<0.000498 0.000996	<0.000501 0.00100	<0.000499 0.000998	<0.000503 0.00101	0.00103 0.00101	<0.000502 0.00100
Total Xylenes		<0.000498 0.000996	<0.000501 0.00100	<0.000499 0.000998	<0.000503 0.00101	0.00312 0.00101	<0.000502 0.00100
Total BTEX		<0.000498 0.000996	0.000631 J 0.00100	0.000539 J 0.000998	0.00210 0.00101	0.00637 0.00101	<0.000502 0.00100
TPH By SW8015 Mod	<i>Extracted:</i>	11.06.2019 12:00	11.06.2019 12:00	11.06.2019 12:00	11.06.2019 12:00	11.06.2019 16:00	11.06.2019 16:00
	<i>Analyzed:</i>	11.06.2019 15:09	11.06.2019 15:29	11.06.2019 15:49	11.06.2019 16:09	11.06.2019 16:50	11.06.2019 17:10
	<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)		15.4 J 50.3	16.0 J 50.3	15.0 J 50.3	15.8 J 50.2	18.2 J 50.3	18.0 J 49.8
Diesel Range Organics (DRO)		15.1 J 50.3	18.1 J 50.3	208 50.3	49.0 J 50.2	41.3 J 50.3	38.0 J 49.8
Motor Oil Range Hydrocarbons (MRO)		35.6 J 50.3	41.6 J 50.3	26.4 J 50.3	32.3 J 50.2	29.1 J 50.3	31.3 J 49.8
Total TPH		66.1 50.3	75.7 50.3	249 50.3	97.1 50.2	88.6 50.3	87.3 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

Debbie Simmons
Project Manager



Certificate of Analysis Summary 642191

GHD Services, INC- Midland, Midland, TX

Project Name: Enlink Falcon CDP

Project Id:

Contact: Tom Larson

Project Location: Lea

Date Received in Lab: Wed 11.06.2019 09:16

Report Date: 11.07.2019 15:19

Project Manager: Debbie Simmons

<i>Analysis Requested</i>	<i>Lab Id:</i>	642191-013	642191-014	642191-015	642191-016	642191-017	
	<i>Field Id:</i>	TP-2-5'	TP-2-10'	HA-1-3'	HA-2-5'	HA-3-3'	
	<i>Depth:</i>	5- ft	10- ft	3- ft	5- ft	3- ft	
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	
	<i>Sampled:</i>	11.04.2019 14:57	11.04.2019 15:20	11.05.2019 15:00	11.05.2019 14:48	11.05.2019 14:40	
BTEX by EPA 8021B	<i>Extracted:</i>	11.06.2019 09:40	11.06.2019 09:40	11.06.2019 09:40	11.06.2019 09:40	11.06.2019 09:40	
	<i>Analyzed:</i>	11.06.2019 14:59	11.06.2019 15:19	11.06.2019 15:39	11.06.2019 16:00	11.06.2019 13:57	
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Benzene		<0.000497 0.000994	<0.000499 0.000998	<0.000503 0.00101	<0.000498 0.000996	<0.000500 0.00100	
Toluene		<0.000497 0.000994	0.00119 0.000998	<0.000503 0.00101	0.00195 0.000996	<0.000500 0.00100	
Ethylbenzene		<0.000497 0.000994	0.00302 0.000998	0.0520 0.00101	0.0114 0.000996	<0.000500 0.00100	
m,p-Xylenes		<0.000994 0.00199	0.0107 0.00200	0.0358 0.00201	0.0297 0.00199	<0.00100 0.00200	
o-Xylene		<0.000497 0.000994	0.00854 0.000998	0.00900 0.00101	0.00964 0.000996	<0.000500 0.00100	
Total Xylenes		<0.000497 0.000994	0.0192 0.000998	0.0448 0.00101	0.0393 0.000996	<0.000500 0.00100	
Total BTEX		<0.000497 0.000994	0.0235 0.000998	0.0968 0.00101	0.0527 0.000996	<0.000500 0.00100	
TPH By SW8015 Mod	<i>Extracted:</i>	11.06.2019 16:00	11.06.2019 16:00	11.06.2019 16:00	11.06.2019 16:00	11.06.2019 16:00	
	<i>Analyzed:</i>	11.06.2019 17:32	11.06.2019 17:52	11.06.2019 18:11	11.06.2019 18:31	11.06.2019 18:51	
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Gasoline Range Hydrocarbons (GRO)		18.2 J 50.1	17.2 J 50.0	14.2 J 50.2	20.1 J 50.1	15.0 J 50.1	
Diesel Range Organics (DRO)		37.6 J 50.1	339 50.0	88.4 50.2	318 50.1	12.0 J 50.1	
Motor Oil Range Hydrocarbons (MRO)		29.7 J 50.1	28.0 J 50.0	26.2 J 50.2	22.7 J 50.1	27.1 J 50.1	
Total TPH		85.5 50.1	384 50.0	129 50.2	361 50.1	54.1 50.1	

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Debbie Simmons
Project Manager



Analytical Report 642191

for

GHD Services, INC- Midland

Project Manager: Tom Larson

Enlink Falcon CDP

11.07.2019

Collected By: Client

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

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

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TN102385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



11.07.2019

Project Manager: **Tom Larson**
GHD Services, INC- Midland
2135 S Loop 250 W
Midland, TX 79703

Reference: XENCO Report No(s): **642191**
Enlink Falcon CDP
Project Address: Lea

Tom Larson:

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) 642191. 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. 642191 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 'Debbie Simmons'. The signature is fluid and cursive, with a horizontal line drawn underneath it.

Debbie Simmons
Project Manager

A Small Business and Minority Company

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



Sample Cross Reference 642191

GHD Services, INC- Midland, Midland, TX

Enlink Falcon CDP

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS-1-4"	S	11.05.2019 13:30	4 In	642191-001
SS-2-4"	S	11.05.2019 13:35	4 In	642191-002
SS-3-4"	S	11.05.2019 13:40	4 In	642191-003
SS-4-4"	S	11.05.2019 13:45	4 In	642191-004
SS-5-4"	S	11.05.2019 13:50	4 In	642191-005
SS-6-4"	S	11.05.2019 13:55	4 In	642191-006
SS-7-4"	S	11.05.2019 14:00	4 In	642191-007
SS-8-4"	S	11.05.2019 14:15	4 In	642191-008
SS-9-4"	S	11.05.2019 14:20	4 In	642191-009
SS-10-4"	S	11.05.2019 14:28	4 In	642191-010
TP-1-5'	S	11.04.2019 14:20	5 ft	642191-011
TP-1-7'	S	11.04.2019 14:25	7 ft	642191-012
TP-2-5'	S	11.04.2019 14:57	5 ft	642191-013
TP-2-10'	S	11.04.2019 15:20	10 ft	642191-014
HA-1-3'	S	11.05.2019 15:00	3 ft	642191-015
HA-2-5'	S	11.05.2019 14:48	5 ft	642191-016
HA-3-3'	S	11.05.2019 14:40	3 ft	642191-017



CASE NARRATIVE

Client Name: GHD Services, INC- Midland

Project Name: Enlink Falcon CDP

Project ID:

Work Order Number(s): 642191

Report Date: 11.07.2019

Date Received: 11.06.2019

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3106687 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3106690 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



Certificate of Analytical Results 642191

GHD Services, INC- Midland, Midland, TX

Enlink Falcon CDP

Sample Id: **SS-1-4"**
Lab Sample Id: 642191-001

Matrix: Soil
Date Collected: 11.05.2019 13:30

Date Received: 11.06.2019 09:16
Sample Depth: 4 In

Analytical Method: TPH By SW8015 Mod

Tech: DTH

Analyst: DTH

Seq Number: 3106741

Prep Method: SW8015P

% Moisture:

Date Prep: 11.06.2019 11:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	15.9	50.2	13.9	mg/kg	11.06.2019 11:57	J	1
Diesel Range Organics (DRO)	C10C28DRO	18.1	50.2	11.5	mg/kg	11.06.2019 11:57	J	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	21.8	50.2	11.5	mg/kg	11.06.2019 11:57	J	1
Total TPH	PHC635	55.8	50.2	11.5	mg/kg	11.06.2019 11:57		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	11.06.2019 11:57	
o-Terphenyl	84-15-1	101	%	70-135	11.06.2019 11:57	

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3106690

Prep Method: SW5030B

% Moisture:

Date Prep: 11.06.2019 15:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000498	0.000996	0.000498	mg/kg	11.06.2019 17:37	U	1
Toluene	108-88-3	<0.000498	0.000996	0.000498	mg/kg	11.06.2019 17:37	U	1
Ethylbenzene	100-41-4	0.000966	0.000996	0.000498	mg/kg	11.06.2019 17:37	J	1
m,p-Xylenes	179601-23-1	0.00680	0.00199	0.000996	mg/kg	11.06.2019 17:37		1
o-Xylene	95-47-6	0.00288	0.000996	0.000498	mg/kg	11.06.2019 17:37		1
Total Xylenes	1330-20-7	0.00968	0.000996	0.000498	mg/kg	11.06.2019 17:37		1
Total BTEX		0.0106	0.000996	0.000498	mg/kg	11.06.2019 17:37		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	101	%	70-130	11.06.2019 17:37	
4-Bromofluorobenzene	460-00-4	110	%	70-130	11.06.2019 17:37	



Certificate of Analytical Results 642191

GHD Services, INC- Midland, Midland, TX

Enlink Falcon CDP

Sample Id: SS-2-4"
Lab Sample Id: 642191-002

Matrix: Soil
Date Collected: 11.05.2019 13:35

Date Received: 11.06.2019 09:16
Sample Depth: 4 In

Analytical Method: TPH By SW8015 Mod

Tech: DTH

Analyst: DTH

Seq Number: 3106741

Prep Method: SW8015P

% Moisture:

Date Prep: 11.06.2019 12:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<13.8	49.8	13.8	mg/kg	11.06.2019 12:57	U	1
Diesel Range Organics (DRO)	C10C28DRO	<11.4	49.8	11.4	mg/kg	11.06.2019 12:57	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	19.7	49.8	11.4	mg/kg	11.06.2019 12:57	J	1
Total TPH	PHCG35	19.7	49.8	11.4	mg/kg	11.06.2019 12:57	J	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-135	11.06.2019 12:57	
o-Terphenyl	84-15-1	97	%	70-135	11.06.2019 12:57	

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3106690

Prep Method: SW5030B

% Moisture:

Date Prep: 11.06.2019 15:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000502	0.00100	0.000502	mg/kg	11.06.2019 17:56	U	1
Toluene	108-88-3	0.000673	0.00100	0.000502	mg/kg	11.06.2019 17:56	J	1
Ethylbenzene	100-41-4	0.00369	0.00100	0.000502	mg/kg	11.06.2019 17:56		1
m,p-Xylenes	179601-23-1	0.00321	0.00201	0.00100	mg/kg	11.06.2019 17:56		1
o-Xylene	95-47-6	0.00106	0.00100	0.000502	mg/kg	11.06.2019 17:56		1
Total Xylenes	1330-20-7	0.00427	0.00100	0.000502	mg/kg	11.06.2019 17:56		1
Total BTEX		0.00863	0.00100	0.000502	mg/kg	11.06.2019 17:56		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	119	%	70-130	11.06.2019 17:56	
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.06.2019 17:56	



Certificate of Analytical Results 642191

GHD Services, INC- Midland, Midland, TX

Enlink Falcon CDP

Sample Id: SS-3-4"
Lab Sample Id: 642191-003

Matrix: Soil
Date Collected: 11.05.2019 13:40

Date Received: 11.06.2019 09:16
Sample Depth: 4 In

Analytical Method: TPH By SW8015 Mod

Tech: DTH

Analyst: DTH

Seq Number: 3106741

Prep Method: SW8015P

% Moisture:

Date Prep: 11.06.2019 12:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	16.7	50.0	13.9	mg/kg	11.06.2019 13:16	J	1
Diesel Range Organics (DRO)	C10C28DRO	215	50.0	11.5	mg/kg	11.06.2019 13:16		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	21.9	50.0	11.4	mg/kg	11.06.2019 13:16	J	1
Total TPH	PHCG35	254	50.0	11.4	mg/kg	11.06.2019 13:16		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	75	%	70-135	11.06.2019 13:16	
o-Terphenyl	84-15-1	81	%	70-135	11.06.2019 13:16	

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3106690

Prep Method: SW5030B

% Moisture:

Date Prep: 11.06.2019 15:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000505	0.00101	0.000505	mg/kg	11.06.2019 18:15	U	1
Toluene	108-88-3	0.000707	0.00101	0.000505	mg/kg	11.06.2019 18:15	J	1
Ethylbenzene	100-41-4	0.00330	0.00101	0.000505	mg/kg	11.06.2019 18:15		1
m,p-Xylenes	179601-23-1	0.00287	0.00202	0.00101	mg/kg	11.06.2019 18:15		1
o-Xylene	95-47-6	0.000859	0.00101	0.000505	mg/kg	11.06.2019 18:15	J	1
Total Xylenes	1330-20-7	0.00373	0.00101	0.000505	mg/kg	11.06.2019 18:15		1
Total BTEX		0.00774	0.00101	0.000505	mg/kg	11.06.2019 18:15		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	121	%	70-130	11.06.2019 18:15	
1,4-Difluorobenzene	540-36-3	103	%	70-130	11.06.2019 18:15	



Certificate of Analytical Results 642191

GHD Services, INC- Midland, Midland, TX

Enlink Falcon CDP

Sample Id: SS-4-4"
Lab Sample Id: 642191-004

Matrix: Soil
Date Collected: 11.05.2019 13:45

Date Received: 11.06.2019 09:16
Sample Depth: 4 In

Analytical Method: TPH By SW8015 Mod

Tech: DTH

Analyst: DTH

Seq Number: 3106741

Prep Method: SW8015P

% Moisture:

Date Prep: 11.06.2019 12:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	22.5	50.3	14.0	mg/kg	11.06.2019 13:36	J	1
Diesel Range Organics (DRO)	C10C28DRO	2840	50.3	11.5	mg/kg	11.06.2019 13:36		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	235	50.3	11.5	mg/kg	11.06.2019 13:36		1
Total TPH	PHC635	3100	50.3	11.5	mg/kg	11.06.2019 13:36		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-135	11.06.2019 13:36	
o-Terphenyl	84-15-1	114	%	70-135	11.06.2019 13:36	

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3106690

Prep Method: SW5030B

% Moisture:

Date Prep: 11.06.2019 15:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0100	0.0200	0.0100	mg/kg	11.06.2019 18:35	U	1
Toluene	108-88-3	0.154	0.0200	0.0100	mg/kg	11.06.2019 18:35		1
Ethylbenzene	100-41-4	0.0572	0.0200	0.0100	mg/kg	11.06.2019 18:35		1
m,p-Xylenes	179601-23-1	0.0498	0.0400	0.0200	mg/kg	11.06.2019 18:35		1
o-Xylene	95-47-6	0.0206	0.0200	0.0100	mg/kg	11.06.2019 18:35		1
Total Xylenes	1330-20-7	0.0704	0.0200	0.0100	mg/kg	11.06.2019 18:35		1
Total BTEX		0.282	0.0200	0.0100	mg/kg	11.06.2019 18:35		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	113	%	70-130	11.06.2019 18:35	
1,4-Difluorobenzene	540-36-3	102	%	70-130	11.06.2019 18:35	



Certificate of Analytical Results 642191

GHD Services, INC- Midland, Midland, TX

Enlink Falcon CDP

Sample Id: SS-5-4"
Lab Sample Id: 642191-005

Matrix: Soil
Date Collected: 11.05.2019 13:50

Date Received: 11.06.2019 09:16
Sample Depth: 4 In

Analytical Method: TPH By SW8015 Mod

Tech: DTH

Analyst: DTH

Seq Number: 3106741

Prep Method: SW8015P

% Moisture:

Date Prep: 11.06.2019 12:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	36.5	50.3	14.0	mg/kg	11.06.2019 13:56	J	1
Diesel Range Organics (DRO)	C10C28DRO	1110	50.3	11.5	mg/kg	11.06.2019 13:56		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	92.5	50.3	11.5	mg/kg	11.06.2019 13:56		1
Total TPH	PHCG35	1240	50.3	11.5	mg/kg	11.06.2019 13:56		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-135	11.06.2019 13:56	
o-Terphenyl	84-15-1	95	%	70-135	11.06.2019 13:56	

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3106690

Prep Method: SW5030B

% Moisture:

Date Prep: 11.06.2019 15:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0104	0.0208	0.0104	mg/kg	11.06.2019 18:54	U	1
Toluene	108-88-3	0.219	0.0208	0.0104	mg/kg	11.06.2019 18:54		1
Ethylbenzene	100-41-4	0.0219	0.0208	0.0104	mg/kg	11.06.2019 18:54		1
m,p-Xylenes	179601-23-1	0.113	0.0417	0.0208	mg/kg	11.06.2019 18:54		1
o-Xylene	95-47-6	0.515	0.0208	0.0104	mg/kg	11.06.2019 18:54		1
Total Xylenes	1330-20-7	0.628	0.0208	0.0104	mg/kg	11.06.2019 18:54		1
Total BTEX		0.869	0.0208	0.0104	mg/kg	11.06.2019 18:54		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	101	%	70-130	11.06.2019 18:54	
4-Bromofluorobenzene	460-00-4	116	%	70-130	11.06.2019 18:54	



Certificate of Analytical Results 642191

GHD Services, INC- Midland, Midland, TX

Enlink Falcon CDP

Sample Id: SS-6-4"
Lab Sample Id: 642191-006

Matrix: Soil
Date Collected: 11.05.2019 13:55

Date Received: 11.06.2019 09:16
Sample Depth: 4 In

Analytical Method: TPH By SW8015 Mod

Tech: DTH

Analyst: DTH

Seq Number: 3106741

Prep Method: SW8015P

% Moisture:

Date Prep: 11.06.2019 12:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	19.0	50.2	13.9	mg/kg	11.07.2019 00:27	J	1
Diesel Range Organics (DRO)	C10C28DRO	38.2	50.2	11.5	mg/kg	11.07.2019 00:27	J	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	19.2	50.2	11.5	mg/kg	11.07.2019 00:27	J	1
Total TPH	PHCG35	76.4	50.2	11.5	mg/kg	11.07.2019 00:27		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	11.07.2019 00:27	
o-Terphenyl	84-15-1	101	%	70-135	11.07.2019 00:27	

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3106690

Prep Method: SW5030B

% Moisture:

Date Prep: 11.06.2019 15:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000499	0.000998	0.000499	mg/kg	11.06.2019 19:13	U	1
Toluene	108-88-3	<0.000499	0.000998	0.000499	mg/kg	11.06.2019 19:13	U	1
Ethylbenzene	100-41-4	<0.000499	0.000998	0.000499	mg/kg	11.06.2019 19:13	U	1
m,p-Xylenes	179601-23-1	0.00111	0.00200	0.000998	mg/kg	11.06.2019 19:13	J	1
o-Xylene	95-47-6	0.0148	0.000998	0.000499	mg/kg	11.06.2019 19:13		1
Total Xylenes	1330-20-7	0.0159	0.000998	0.000499	mg/kg	11.06.2019 19:13		1
Total BTEX		0.0159	0.000998	0.000499	mg/kg	11.06.2019 19:13		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	123	%	70-130	11.06.2019 19:13	
1,4-Difluorobenzene	540-36-3	105	%	70-130	11.06.2019 19:13	



Certificate of Analytical Results 642191

GHD Services, INC- Midland, Midland, TX

Enlink Falcon CDP

Sample Id: SS-7-4"
Lab Sample Id: 642191-007

Matrix: Soil
Date Collected: 11.05.2019 14:00

Date Received: 11.06.2019 09:16
Sample Depth: 4 In

Analytical Method: TPH By SW8015 Mod

Tech: DTH

Analyst: DTH

Seq Number: 3106741

Prep Method: SW8015P

% Moisture:

Date Prep: 11.06.2019 12:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	15.4	50.3	14.0	mg/kg	11.06.2019 15:09	J	1
Diesel Range Organics (DRO)	C10C28DRO	15.1	50.3	11.5	mg/kg	11.06.2019 15:09	J	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	35.6	50.3	11.5	mg/kg	11.06.2019 15:09	J	1
Total TPH	PHCG35	66.1	50.3	11.5	mg/kg	11.06.2019 15:09		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-135	11.06.2019 15:09	
o-Terphenyl	84-15-1	105	%	70-135	11.06.2019 15:09	

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3106690

Prep Method: SW5030B

% Moisture:

Date Prep: 11.06.2019 15:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000498	0.000996	0.000498	mg/kg	11.06.2019 19:32	U	1
Toluene	108-88-3	<0.000498	0.000996	0.000498	mg/kg	11.06.2019 19:32	U	1
Ethylbenzene	100-41-4	<0.000498	0.000996	0.000498	mg/kg	11.06.2019 19:32	U	1
m,p-Xylenes	179601-23-1	<0.000996	0.00199	0.000996	mg/kg	11.06.2019 19:32	U	1
o-Xylene	95-47-6	<0.000498	0.000996	0.000498	mg/kg	11.06.2019 19:32	U	1
Total Xylenes	1330-20-7	<0.000498	0.000996	0.000498	mg/kg	11.06.2019 19:32	U	1
Total BTEX		<0.000498	0.000996	0.000498	mg/kg	11.06.2019 19:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	70-130	11.06.2019 19:32	
4-Bromofluorobenzene	460-00-4	119	%	70-130	11.06.2019 19:32	



Certificate of Analytical Results 642191

GHD Services, INC- Midland, Midland, TX

Enlink Falcon CDP

Sample Id: SS-8-4"
Lab Sample Id: 642191-008

Matrix: Soil
Date Collected: 11.05.2019 14:15

Date Received: 11.06.2019 09:16
Sample Depth: 4 In

Analytical Method: TPH By SW8015 Mod

Tech: DTH

Analyst: DTH

Seq Number: 3106741

Prep Method: SW8015P

% Moisture:

Date Prep: 11.06.2019 12:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	16.0	50.3	14.0	mg/kg	11.06.2019 15:29	J	1
Diesel Range Organics (DRO)	C10C28DRO	18.1	50.3	11.5	mg/kg	11.06.2019 15:29	J	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	41.6	50.3	11.5	mg/kg	11.06.2019 15:29	J	1
Total TPH	PHCG35	75.7	50.3	11.5	mg/kg	11.06.2019 15:29		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-135	11.06.2019 15:29	
o-Terphenyl	84-15-1	97	%	70-135	11.06.2019 15:29	

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3106690

Prep Method: SW5030B

% Moisture:

Date Prep: 11.06.2019 15:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000501	0.00100	0.000501	mg/kg	11.06.2019 19:51	U	1
Toluene	108-88-3	<0.000501	0.00100	0.000501	mg/kg	11.06.2019 19:51	U	1
Ethylbenzene	100-41-4	0.000631	0.00100	0.000501	mg/kg	11.06.2019 19:51	J	1
m,p-Xylenes	179601-23-1	<0.00100	0.00200	0.00100	mg/kg	11.06.2019 19:51	U	1
o-Xylene	95-47-6	<0.000501	0.00100	0.000501	mg/kg	11.06.2019 19:51	U	1
Total Xylenes	1330-20-7	<0.000501	0.00100	0.000501	mg/kg	11.06.2019 19:51	U	1
Total BTEX		0.000631	0.00100	0.000501	mg/kg	11.06.2019 19:51	J	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	70-130	11.06.2019 19:51	
4-Bromofluorobenzene	460-00-4	121	%	70-130	11.06.2019 19:51	



Certificate of Analytical Results 642191

GHD Services, INC- Midland, Midland, TX

Enlink Falcon CDP

Sample Id: **SS-9-4"**
Lab Sample Id: 642191-009

Matrix: Soil
Date Collected: 11.05.2019 14:20

Date Received: 11.06.2019 09:16
Sample Depth: 4 In

Analytical Method: TPH By SW8015 Mod

Tech: DTH

Analyst: DTH

Seq Number: 3106741

Prep Method: SW8015P

% Moisture:

Date Prep: 11.06.2019 12:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	15.0	50.3	14.0	mg/kg	11.06.2019 15:49	J	1
Diesel Range Organics (DRO)	C10C28DRO	208	50.3	11.5	mg/kg	11.06.2019 15:49		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	26.4	50.3	11.5	mg/kg	11.06.2019 15:49	J	1
Total TPH	PHCG35	249	50.3	11.5	mg/kg	11.06.2019 15:49		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-135	11.06.2019 15:49	
o-Terphenyl	84-15-1	100	%	70-135	11.06.2019 15:49	

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3106690

Prep Method: SW5030B

% Moisture:

Date Prep: 11.06.2019 15:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000499	0.000998	0.000499	mg/kg	11.06.2019 20:10	U	1
Toluene	108-88-3	<0.000499	0.000998	0.000499	mg/kg	11.06.2019 20:10	U	1
Ethylbenzene	100-41-4	0.000539	0.000998	0.000499	mg/kg	11.06.2019 20:10	J	1
m,p-Xylenes	179601-23-1	<0.000998	0.00200	0.000998	mg/kg	11.06.2019 20:10	U	1
o-Xylene	95-47-6	<0.000499	0.000998	0.000499	mg/kg	11.06.2019 20:10	U	1
Total Xylenes	1330-20-7	<0.000499	0.000998	0.000499	mg/kg	11.06.2019 20:10	U	1
Total BTEX		0.000539	0.000998	0.000499	mg/kg	11.06.2019 20:10	J	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	11.06.2019 20:10	
4-Bromofluorobenzene	460-00-4	118	%	70-130	11.06.2019 20:10	



Certificate of Analytical Results 642191

GHD Services, INC- Midland, Midland, TX

Enlink Falcon CDP

Sample Id: SS-10-4"

Matrix: Soil

Date Received: 11.06.2019 09:16

Lab Sample Id: 642191-010

Date Collected: 11.05.2019 14:28

Sample Depth: 4 In

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DTH

% Moisture:

Analyst: DTH

Date Prep: 11.06.2019 12:00

Basis: Wet Weight

Seq Number: 3106741

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	15.8	50.2	13.9	mg/kg	11.06.2019 16:09	J	1
Diesel Range Organics (DRO)	C10C28DRO	49.0	50.2	11.5	mg/kg	11.06.2019 16:09	J	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	32.3	50.2	11.5	mg/kg	11.06.2019 16:09	J	1
Total TPH	PHCG35	97.1	50.2	11.5	mg/kg	11.06.2019 16:09		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-135	11.06.2019 16:09	
o-Terphenyl	84-15-1	102	%	70-135	11.06.2019 16:09	

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 11.06.2019 15:00

Basis: Wet Weight

Seq Number: 3106690

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000503	0.00101	0.000503	mg/kg	11.06.2019 20:29	U	1
Toluene	108-88-3	0.00210	0.00101	0.000503	mg/kg	11.06.2019 20:29		1
Ethylbenzene	100-41-4	<0.000503	0.00101	0.000503	mg/kg	11.06.2019 20:29	U	1
m,p-Xylenes	179601-23-1	<0.00101	0.00201	0.00101	mg/kg	11.06.2019 20:29	U	1
o-Xylene	95-47-6	<0.000503	0.00101	0.000503	mg/kg	11.06.2019 20:29	U	1
Total Xylenes	1330-20-7	<0.000503	0.00101	0.000503	mg/kg	11.06.2019 20:29	U	1
Total BTEX		0.00210	0.00101	0.000503	mg/kg	11.06.2019 20:29		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	101	%	70-130	11.06.2019 20:29	
4-Bromofluorobenzene	460-00-4	117	%	70-130	11.06.2019 20:29	



Certificate of Analytical Results 642191

GHD Services, INC- Midland, Midland, TX

Enlink Falcon CDP

Sample Id: **TP-1-5'**
Lab Sample Id: 642191-011

Matrix: Soil
Date Collected: 11.04.2019 14:20

Date Received: 11.06.2019 09:16
Sample Depth: 5 ft

Analytical Method: TPH By SW8015 Mod

Tech: DTH

Analyst: DTH

Seq Number: 3106741

Prep Method: SW8015P

% Moisture:

Date Prep: 11.06.2019 16:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	18.2	50.3	14.0	mg/kg	11.06.2019 16:50	J	1
Diesel Range Organics (DRO)	C10C28DRO	41.3	50.3	11.5	mg/kg	11.06.2019 16:50	J	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	29.1	50.3	11.5	mg/kg	11.06.2019 16:50	J	1
Total TPH	PHCG35	88.6	50.3	11.5	mg/kg	11.06.2019 16:50		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-135	11.06.2019 16:50	
o-Terphenyl	84-15-1	98	%	70-135	11.06.2019 16:50	

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3106687

Prep Method: SW5030B

% Moisture:

Date Prep: 11.06.2019 09:40

Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000504	0.00101	0.000504	mg/kg	11.06.2019 14:18	U	1
Toluene	108-88-3	0.000806	0.00101	0.000504	mg/kg	11.06.2019 14:18	J	1
Ethylbenzene	100-41-4	0.00244	0.00101	0.000504	mg/kg	11.06.2019 14:18		1
m,p-Xylenes	179601-23-1	0.00209	0.00202	0.00101	mg/kg	11.06.2019 14:18		1
o-Xylene	95-47-6	0.00103	0.00101	0.000504	mg/kg	11.06.2019 14:18		1
Total Xylenes	1330-20-7	0.00312	0.00101	0.000504	mg/kg	11.06.2019 14:18		1
Total BTEX		0.00637	0.00101	0.000504	mg/kg	11.06.2019 14:18		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	98	%	70-130	11.06.2019 14:18	
4-Bromofluorobenzene	460-00-4	111	%	70-130	11.06.2019 14:18	



Certificate of Analytical Results 642191

GHD Services, INC- Midland, Midland, TX

Enlink Falcon CDP

Sample Id: **TP-1-7'**
Lab Sample Id: 642191-012

Matrix: Soil
Date Collected: 11.04.2019 14:25

Date Received: 11.06.2019 09:16
Sample Depth: 7 ft

Analytical Method: TPH By SW8015 Mod

Tech: DTH

Analyst: DTH

Seq Number: 3106741

Prep Method: SW8015P

% Moisture:

Date Prep: 11.06.2019 16:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	18.0	49.8	13.8	mg/kg	11.06.2019 17:10	J	1
Diesel Range Organics (DRO)	C10C28DRO	38.0	49.8	11.4	mg/kg	11.06.2019 17:10	J	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	31.3	49.8	11.4	mg/kg	11.06.2019 17:10	J	1
Total TPH	PHCG35	87.3	49.8	11.4	mg/kg	11.06.2019 17:10		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	11.06.2019 17:10	
o-Terphenyl	84-15-1	109	%	70-135	11.06.2019 17:10	

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3106687

Prep Method: SW5030B

% Moisture:

Date Prep: 11.06.2019 09:40

Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000502	0.00100	0.000502	mg/kg	11.06.2019 14:38	U	1
Toluene	108-88-3	<0.000502	0.00100	0.000502	mg/kg	11.06.2019 14:38	U	1
Ethylbenzene	100-41-4	<0.000502	0.00100	0.000502	mg/kg	11.06.2019 14:38	U	1
m,p-Xylenes	179601-23-1	<0.00100	0.00201	0.00100	mg/kg	11.06.2019 14:38	U	1
o-Xylene	95-47-6	<0.000502	0.00100	0.000502	mg/kg	11.06.2019 14:38	U	1
Total Xylenes	1330-20-7	<0.000502	0.00100	0.000502	mg/kg	11.06.2019 14:38	U	1
Total BTEX		<0.000502	0.00100	0.000502	mg/kg	11.06.2019 14:38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	70-130	11.06.2019 14:38	
4-Bromofluorobenzene	460-00-4	111	%	70-130	11.06.2019 14:38	



Certificate of Analytical Results 642191

GHD Services, INC- Midland, Midland, TX

Enlink Falcon CDP

Sample Id: **TP-2-5'** Matrix: **Soil** Date Received: 11.06.2019 09:16
 Lab Sample Id: 642191-013 Date Collected: 11.04.2019 14:57 Sample Depth: 5 ft
 Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 11.06.2019 16:00 Basis: Wet Weight
 Seq Number: 3106741

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	18.2	50.1	13.9	mg/kg	11.06.2019 17:32	J	1
Diesel Range Organics (DRO)	C10C28DRO	37.6	50.1	11.5	mg/kg	11.06.2019 17:32	J	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	29.7	50.1	11.5	mg/kg	11.06.2019 17:32	J	1
Total TPH	PHCG35	85.5	50.1	11.5	mg/kg	11.06.2019 17:32		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	11.06.2019 17:32	
o-Terphenyl	84-15-1	108	%	70-135	11.06.2019 17:32	

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 11.06.2019 09:40 Basis: Wet Weight
 Seq Number: 3106687

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000497	0.000994	0.000497	mg/kg	11.06.2019 14:59	U	1
Toluene	108-88-3	<0.000497	0.000994	0.000497	mg/kg	11.06.2019 14:59	U	1
Ethylbenzene	100-41-4	<0.000497	0.000994	0.000497	mg/kg	11.06.2019 14:59	U	1
m,p-Xylenes	179601-23-1	<0.000994	0.00199	0.000994	mg/kg	11.06.2019 14:59	U	1
o-Xylene	95-47-6	<0.000497	0.000994	0.000497	mg/kg	11.06.2019 14:59	U	1
Total Xylenes	1330-20-7	<0.000497	0.000994	0.000497	mg/kg	11.06.2019 14:59	U	1
Total BTEX		<0.000497	0.000994	0.000497	mg/kg	11.06.2019 14:59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	99	%	70-130	11.06.2019 14:59	
4-Bromofluorobenzene	460-00-4	109	%	70-130	11.06.2019 14:59	



Certificate of Analytical Results 642191

GHD Services, INC- Midland, Midland, TX

Enlink Falcon CDP

Sample Id: **TP-2-10'**
Lab Sample Id: 642191-014

Matrix: Soil
Date Collected: 11.04.2019 15:20

Date Received: 11.06.2019 09:16
Sample Depth: 10 ft

Analytical Method: TPH By SW8015 Mod

Tech: DTH

Analyst: DTH

Seq Number: 3106741

Prep Method: SW8015P

% Moisture:

Date Prep: 11.06.2019 16:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	17.2	50.0	13.9	mg/kg	11.06.2019 17:52	J	1
Diesel Range Organics (DRO)	C10C28DRO	339	50.0	11.5	mg/kg	11.06.2019 17:52		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	28.0	50.0	11.4	mg/kg	11.06.2019 17:52	J	1
Total TPH	PHCG35	384	50.0	11.4	mg/kg	11.06.2019 17:52		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	78	%	70-135	11.06.2019 17:52	
o-Terphenyl	84-15-1	85	%	70-135	11.06.2019 17:52	

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3106687

Prep Method: SW5030B

% Moisture:

Date Prep: 11.06.2019 09:40

Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000499	0.000998	0.000499	mg/kg	11.06.2019 15:19	U	1
Toluene	108-88-3	0.00119	0.000998	0.000499	mg/kg	11.06.2019 15:19		1
Ethylbenzene	100-41-4	0.00302	0.000998	0.000499	mg/kg	11.06.2019 15:19		1
m,p-Xylenes	179601-23-1	0.0107	0.00200	0.000998	mg/kg	11.06.2019 15:19		1
o-Xylene	95-47-6	0.00854	0.000998	0.000499	mg/kg	11.06.2019 15:19		1
Total Xylenes	1330-20-7	0.0192	0.000998	0.000499	mg/kg	11.06.2019 15:19		1
Total BTEX		0.0235	0.000998	0.000499	mg/kg	11.06.2019 15:19		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	119	%	70-130	11.06.2019 15:19	
1,4-Difluorobenzene	540-36-3	98	%	70-130	11.06.2019 15:19	



Certificate of Analytical Results 642191

GHD Services, INC- Midland, Midland, TX

Enlink Falcon CDP

Sample Id: **HA-1-3'**
Lab Sample Id: 642191-015

Matrix: Soil
Date Collected: 11.05.2019 15:00

Date Received: 11.06.2019 09:16
Sample Depth: 3 ft

Analytical Method: TPH By SW8015 Mod

Tech: DTH

Analyst: DTH

Seq Number: 3106741

Date Prep: 11.06.2019 16:00

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	14.2	50.2	13.9	mg/kg	11.06.2019 18:11	J	1
Diesel Range Organics (DRO)	C10C28DRO	88.4	50.2	11.5	mg/kg	11.06.2019 18:11		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	26.2	50.2	11.5	mg/kg	11.06.2019 18:11	J	1
Total TPH	PHCG35	129	50.2	11.5	mg/kg	11.06.2019 18:11		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-135	11.06.2019 18:11	
o-Terphenyl	84-15-1	98	%	70-135	11.06.2019 18:11	

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3106687

Date Prep: 11.06.2019 09:40

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000503	0.00101	0.000503	mg/kg	11.06.2019 15:39	U	1
Toluene	108-88-3	<0.000503	0.00101	0.000503	mg/kg	11.06.2019 15:39	U	1
Ethylbenzene	100-41-4	0.0520	0.00101	0.000503	mg/kg	11.06.2019 15:39		1
m,p-Xylenes	179601-23-1	0.0358	0.00201	0.00101	mg/kg	11.06.2019 15:39		1
o-Xylene	95-47-6	0.00900	0.00101	0.000503	mg/kg	11.06.2019 15:39		1
Total Xylenes	1330-20-7	0.0448	0.00101	0.000503	mg/kg	11.06.2019 15:39		1
Total BTEX		0.0968	0.00101	0.000503	mg/kg	11.06.2019 15:39		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	97	%	70-130	11.06.2019 15:39	
4-Bromofluorobenzene	460-00-4	120	%	70-130	11.06.2019 15:39	



Certificate of Analytical Results 642191

GHD Services, INC- Midland, Midland, TX

Enlink Falcon CDP

Sample Id: **HA-2-5'** Matrix: Soil Date Received: 11.06.2019 09:16
 Lab Sample Id: 642191-016 Date Collected: 11.05.2019 14:48 Sample Depth: 5 ft
 Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 11.06.2019 16:00 Basis: Wet Weight
 Seq Number: 3106741

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	20.1	50.1	13.9	mg/kg	11.06.2019 18:31	J	1
Diesel Range Organics (DRO)	C10C28DRO	318	50.1	11.5	mg/kg	11.06.2019 18:31		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	22.7	50.1	11.5	mg/kg	11.06.2019 18:31	J	1
Total TPH	PHCG35	361	50.1	11.5	mg/kg	11.06.2019 18:31		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	81	%	70-135	11.06.2019 18:31	
o-Terphenyl	84-15-1	89	%	70-135	11.06.2019 18:31	

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 11.06.2019 09:40 Basis: Wet Weight
 Seq Number: 3106687

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000498	0.000996	0.000498	mg/kg	11.06.2019 16:00	U	1
Toluene	108-88-3	0.00195	0.000996	0.000498	mg/kg	11.06.2019 16:00		1
Ethylbenzene	100-41-4	0.0114	0.000996	0.000498	mg/kg	11.06.2019 16:00		1
m,p-Xylenes	179601-23-1	0.0297	0.00199	0.000996	mg/kg	11.06.2019 16:00		1
o-Xylene	95-47-6	0.00964	0.000996	0.000498	mg/kg	11.06.2019 16:00		1
Total Xylenes	1330-20-7	0.0393	0.000996	0.000498	mg/kg	11.06.2019 16:00		1
Total BTEX		0.0527	0.000996	0.000498	mg/kg	11.06.2019 16:00		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	127	%	70-130	11.06.2019 16:00	
1,4-Difluorobenzene	540-36-3	98	%	70-130	11.06.2019 16:00	



Certificate of Analytical Results 642191

GHD Services, INC- Midland, Midland, TX

Enlink Falcon CDP

Sample Id: **HA-3-3'**
Lab Sample Id: 642191-017

Matrix: Soil
Date Collected: 11.05.2019 14:40

Date Received: 11.06.2019 09:16
Sample Depth: 3 ft

Analytical Method: TPH By SW8015 Mod

Tech: DTH

Analyst: DTH

Seq Number: 3106741

Prep Method: SW8015P

% Moisture:

Date Prep: 11.06.2019 16:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	15.0	50.1	13.9	mg/kg	11.06.2019 18:51	J	1
Diesel Range Organics (DRO)	C10C28DRO	12.0	50.1	11.5	mg/kg	11.06.2019 18:51	J	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	27.1	50.1	11.5	mg/kg	11.06.2019 18:51	J	1
Total TPH	PHCG35	54.1	50.1	11.5	mg/kg	11.06.2019 18:51		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-135	11.06.2019 18:51	
o-Terphenyl	84-15-1	98	%	70-135	11.06.2019 18:51	

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3106687

Prep Method: SW5030B

% Moisture:

Date Prep: 11.06.2019 09:40

Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000500	0.00100	0.000500	mg/kg	11.06.2019 13:57	U	1
Toluene	108-88-3	<0.000500	0.00100	0.000500	mg/kg	11.06.2019 13:57	U	1
Ethylbenzene	100-41-4	<0.000500	0.00100	0.000500	mg/kg	11.06.2019 13:57	U	1
m,p-Xylenes	179601-23-1	<0.00100	0.00200	0.00100	mg/kg	11.06.2019 13:57	U	1
o-Xylene	95-47-6	<0.000500	0.00100	0.000500	mg/kg	11.06.2019 13:57	U	1
Total Xylenes	1330-20-7	<0.000500	0.00100	0.000500	mg/kg	11.06.2019 13:57	U	1
Total BTEX		<0.000500	0.00100	0.000500	mg/kg	11.06.2019 13:57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	107	%	70-130	11.06.2019 13:57	
1,4-Difluorobenzene	540-36-3	98	%	70-130	11.06.2019 13:57	



Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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



GHD Services, INC- Midland
Enlink Falcon CDP

Analytical Method: TPH By SW8015 Mod

Seq Number: 3106741

MB Sample Id: 7689772-1-BLK

Matrix: Solid

LCS Sample Id: 7689772-1-BKS

Prep Method: SW8015P

Date Prep: 11.06.2019

LCSD Sample Id: 7689772-1-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)	<13.9	1000	815	82	814	81	70-135	0	35	mg/kg	11.06.2019 11:18	
Diesel Range Organics (DRO)	<11.5	1000	920	92	886	89	70-135	4	35	mg/kg	11.06.2019 11:18	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	97		102		103		70-135	%	11.06.2019 11:18
o-Terphenyl	111		109		105		70-135	%	11.06.2019 11:18

Analytical Method: TPH By SW8015 Mod

Seq Number: 3106741

Matrix: Solid

MB Sample Id: 7689772-1-BLK

Prep Method: SW8015P

Date Prep: 11.06.2019

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<11.5	mg/kg	11.06.2019 10:58	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3106741

Matrix: Soil

Parent Sample Id: 642191-001

MS Sample Id: 642191-001 S

Prep Method: SW8015P

Date Prep: 11.06.2019

MSD Sample Id: 642191-001 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)	15.9	1000	810	79	883	87	70-135	9	35	mg/kg	11.06.2019 12:17	
Diesel Range Organics (DRO)	18.1	1000	884	87	956	94	70-135	8	35	mg/kg	11.06.2019 12:17	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	103		109		70-135	%	11.06.2019 12:17
o-Terphenyl	103		113		70-135	%	11.06.2019 12:17

Analytical Method: BTEX by EPA 8021B

Seq Number: 3106687

Matrix: Solid

MB Sample Id: 7689764-1-BLK

LCS Sample Id: 7689764-1-BKS

Prep Method: SW5030B

Date Prep: 11.06.2019

LCSD Sample Id: 7689764-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000500	0.100	0.0975	98	0.103	103	70-130	5	35	mg/kg	11.06.2019 10:46	
Toluene	<0.000500	0.100	0.0975	98	0.104	104	70-130	6	35	mg/kg	11.06.2019 10:46	
Ethylbenzene	<0.000500	0.100	0.101	101	0.108	108	71-129	7	35	mg/kg	11.06.2019 10:46	
m,p-Xylenes	<0.00100	0.200	0.206	103	0.220	110	70-135	7	35	mg/kg	11.06.2019 10:46	
o-Xylene	<0.000500	0.100	0.103	103	0.110	110	71-133	7	35	mg/kg	11.06.2019 10:46	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		99		101		70-130	%	11.06.2019 10:46
4-Bromofluorobenzene	107		110		113		70-130	%	11.06.2019 10:46

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



GHD Services, INC- Midland Enlink Falcon CDP

Analytical Method: BTEX by EPA 8021B

Seq Number: 3106690

MB Sample Id: 7689767-1-BLK

Matrix: Solid

LCS Sample Id: 7689767-1-BKS

Prep Method: SW5030B

Date Prep: 11.06.2019

LCSD Sample Id: 7689767-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000500	0.100	0.0931	93	0.0911	91	70-130	2	35	mg/kg	11.06.2019 11:12	
Toluene	<0.000500	0.100	0.0943	94	0.0930	93	70-130	1	35	mg/kg	11.06.2019 11:12	
Ethylbenzene	<0.000500	0.100	0.0950	95	0.0943	94	71-129	1	35	mg/kg	11.06.2019 11:12	
m,p-Xylenes	<0.00100	0.200	0.203	102	0.201	101	70-135	1	35	mg/kg	11.06.2019 11:12	
o-Xylene	<0.000500	0.100	0.100	100	0.0980	98	71-133	2	35	mg/kg	11.06.2019 11:12	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	95		98		96		70-130	%	11.06.2019 11:12
4-Bromofluorobenzene	104		105		100		70-130	%	11.06.2019 11:12

Analytical Method: BTEX by EPA 8021B

Seq Number: 3106690

Parent Sample Id: 642182-001

Matrix: Soil

MS Sample Id: 642182-001 S

Prep Method: SW5030B

Date Prep: 11.06.2019

MSD Sample Id: 642182-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000505	0.101	0.0640	63	0.0717	71	70-130	11	35	mg/kg	11.06.2019 11:50	X
Toluene	<0.000505	0.101	0.0805	80	0.0729	72	70-130	10	35	mg/kg	11.06.2019 11:50	
Ethylbenzene	<0.000505	0.101	0.0849	84	0.0723	72	71-129	16	35	mg/kg	11.06.2019 11:50	
m,p-Xylenes	<0.00101	0.202	0.173	86	0.155	77	70-135	11	35	mg/kg	11.06.2019 11:50	
o-Xylene	<0.000505	0.101	0.0841	83	0.0771	76	71-133	9	35	mg/kg	11.06.2019 11:50	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	88		100		70-130	%	11.06.2019 11:50
4-Bromofluorobenzene	109		118		70-130	%	11.06.2019 11:50

Analytical Method: BTEX by EPA 8021B

Seq Number: 3106687

Parent Sample Id: 642191-017

Matrix: Soil

MS Sample Id: 642191-017 S

Prep Method: SW5030B

Date Prep: 11.06.2019

MSD Sample Id: 642191-017 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000494	0.0988	0.0988	100	0.0793	79	70-130	22	35	mg/kg	11.06.2019 12:42	
Toluene	<0.000494	0.0988	0.101	102	0.0920	92	70-130	9	35	mg/kg	11.06.2019 12:42	
Ethylbenzene	<0.000494	0.0988	0.103	104	0.0939	94	71-129	9	35	mg/kg	11.06.2019 12:42	
m,p-Xylenes	<0.000988	0.198	0.211	107	0.194	97	70-135	8	35	mg/kg	11.06.2019 12:42	
o-Xylene	<0.000494	0.0988	0.105	106	0.0965	97	71-133	8	35	mg/kg	11.06.2019 12:42	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		95		70-130	%	11.06.2019 12:42
4-Bromofluorobenzene	114		119		70-130	%	11.06.2019 12:42

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

Work Order No: 1631-191

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
 Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000 West Palm Beach, FL (561) 689-6701

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Page 1 of 2

Project Manager:	Tom Larson	Bill to: (if different)	# GHD, MAF/Tom Larson
Company Name:	GHD Services	Company Name:	GHD Services LLC
Address:	2135 S Loop 250 W	Address:	2135 S Loop 250 W
City, State ZIP:	Midland TX 79703	City, State ZIP:	Midland TX 79703
Phone:	432 203 8671	Email:	Tom. @ghd.com

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

Project Name:	Enlink Falcon 60P	Turn Around	Pres. Code
Project Number:	NA	☐	
Project Location:	Lea	Rush: 1d-3	
Sample Name:	Jashun Pigg	Due Date:	
PO #:		Quote #:	

SAMPLE RECEIPT	Temp Blank:	Yes ☒ No ☐	Wet Ice:	Yes ☒ No ☐
Temperature (°C):	0.2	Thermometer ID	T-NU-001	
Received Intact:	Yes ☒ No ☐	Correction Factor:	-0.2	
Cooler Custody Seals:	Yes ☒ No ☐	Total Containers:	17	
Sample Custody Seals:	Yes ☒ No ☐			

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers
SS-1-4"		S	11-5-19	1330	4"	BTEX 8021 B
SS-2-4"				1335		TPH 8015
SS-3-4"				1340		
SS-4-4"				1345		
SS-5-4"				1350		
SS-6-4"				1355		
SS-7-4"				1400		
SS-8-4"				1415		
SS-9-4"				1420		
SS-10-4"				1428		

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

1631 / 245.1 / 7470 / 7471 : Hg

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

TC1P / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U

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
		11/19/19 914			2
					4
					6



Chain of Custody

Work Order No: 1631

1631

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
 Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000 West Palm Beach, FL (561) 689-6701

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Page 2 of 2

Project Manager:	Tom Larson	Bill to: (if different)	Tom Larson
Company Name:	GHD Services	Company Name:	GHD Services
Address:	2135 S Loop 250 W	Address:	2135 S Loop 250 W
City, State ZIP:	Midland, TX 79703	City, State ZIP:	Midland TX 79703
Phone:	432 203 8671	Email:	Tom.Larson@ghd.com

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

Project Name:	Enine Falcon CDP	Turn Around	☐
Project Number:	NA	Routine	☐
Project Location:	Lea	Rush:	24 hr
Sampler's Name:	Joshua Pigg	Due Date:	
PO #:		Quote #:	

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

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers
TP-1-5'		S	11-4-19	1420	5'	BTEX 8021 B
TP-1-7'		S		1425	7'	TPH 8015
TP-2-5'		S		1457	5'	
TP-2-10'		S		1520	10'	
HA-1-3'		S	11-5-19	1500	3	
HA-2-5'		S		1448	5	
HA-3-3'		S		1440	3	

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
		11/16/19 9:16			

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: GHD Services, INC- Midland

Date/ Time Received: 11.06.2019 09.16.00 AM

Work Order #: 642191

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T-NM-007

Sample Receipt Checklist

Comments

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

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

Analyst:

PH Device/Lot#:

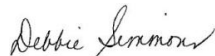
Checklist completed by:



Elizabeth McClellan

Date: 11.06.2019

Checklist reviewed by:



Debbie Simmons

Date: 11.06.2019



Certificate of Analysis Summary 648654

GHD Services, INC- Midland, Midland, TX

Project Name: Enlink Falcon

Project Id: 11205561
Contact: Tom Larson
Project Location:

Date Received in Lab: Fri 01.10.2020 11:19
Report Date: 01.21.2020 17:23
Project Manager: Debbie Simmons

<i>Analysis Requested</i>	<i>Lab Id:</i>	648654-001	648654-002	648654-003	648654-004	648654-005	648654-006
	<i>Field Id:</i>	SL-1 @ 1'	SL-2 @ 2'	SL-3 @ 2'	SL-4 @ 2.5'	SL-5 @ 2'	SL-6 @ 2'
	<i>Depth:</i>	1- ft	2- ft	2- ft	2.5- ft	2- ft	2- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	01.09.2020 12:00	01.09.2020 12:05	01.09.2020 12:10	01.09.2020 12:20	01.09.2020 12:30	01.09.2020 12:35
BTEX by EPA 8021B	<i>Extracted:</i>	01.18.2020 11:00	01.20.2020 17:00	01.20.2020 17:00	01.20.2020 17:00	01.20.2020 17:00	01.20.2020 17:00
	<i>Analyzed:</i>	01.19.2020 10:12	01.21.2020 07:32	01.21.2020 07:52	01.21.2020 08:12	01.21.2020 08:32	01.21.2020 08:52
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00201 0.00201	1.01 1.00	<0.00200 0.00200	1.12 0.992	0.437 0.198	0.423 0.198
Toluene		0.00422 0.00201	27.2 1.00	0.0244 0.00200	18.1 0.992	19.7 0.198	17.7 0.198
Ethylbenzene		0.00479 0.00201	5.74 1.00	0.131 0.00200	6.19 0.992	6.68 0.198	5.02 0.198
m,p-Xylenes		0.0833 0.00402	59.9 2.00	0.0749 0.00399	47.3 1.98	54.5 0.396	43.1 0.397
o-Xylene		0.0392 0.00201	15.3 1.00	0.351 0.00200	17.1 0.992	16.2 0.198	12.7 0.198
Total Xylenes		0.123 0.00201	75.2 1.00	0.426 0.00200	64.4 0.992	70.7 0.198	55.8 0.198
Total BTEX		0.132 0.00201	109 1.00	0.581 0.00200	89.8 0.992	97.5 0.198	78.9 0.198
TPH By SW8015 Mod	<i>Extracted:</i>	01.16.2020 11:00	01.16.2020 11:00	01.16.2020 11:00	01.16.2020 11:00	01.16.2020 11:00	01.16.2020 11:00
	<i>Analyzed:</i>	01.16.2020 13:56	01.16.2020 14:17	01.16.2020 14:37	01.17.2020 07:47	01.17.2020 08:08	01.16.2020 15:41
	<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)		160 49.9	4270 49.9	281 49.8	5310 250	6270 250	4210 250
Diesel Range Organics (DRO)		615 49.9	6720 49.9	687 49.8	8110 250	9740 250	7640 250
Motor Oil Range Hydrocarbons (MRO)		54.4 49.9	549 49.9	83.6 49.8	846 250	866 250	886 250
Total TPH		829 49.9	11500 49.9	1050 49.8	14300 250	16900 250	12700 250

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.

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Debbie Simmons
Project Manager



Certificate of Analysis Summary 648654

GHD Services, INC- Midland, Midland, TX

Project Name: Enlink Falcon

Project Id: 11205561
Contact: Tom Larson
Project Location:

Date Received in Lab: Fri 01.10.2020 11:19
Report Date: 01.21.2020 17:23
Project Manager: Debbie Simmons

<i>Analysis Requested</i>	<i>Lab Id:</i>	648654-007	648654-008	648654-009	648654-010	648654-011	648654-012
	<i>Field Id:</i>	SL-7 @ 1.5'	SL-8 @ 1.5'	SL-9 @ 1'	SL-10 @ 1.5'	SL-11 @ 1.5'	SL-12 @ 1.5'
	<i>Depth:</i>	1.5- ft	1.5- ft	1- ft	1.5- ft	1.5- ft	1.5- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	01.09.2020 12:40	01.09.2020 12:45	01.09.2020 12:50	01.09.2020 12:55	01.09.2020 13:05	01.09.2020 13:10
BTEX by EPA 8021B	<i>Extracted:</i>	01.20.2020 17:00	01.20.2020 17:00	01.20.2020 17:00	01.20.2020 17:00	01.20.2020 17:00	01.20.2020 17:00
	<i>Analyzed:</i>	01.21.2020 10:11	01.21.2020 10:31	01.21.2020 10:52	01.21.2020 11:12	01.21.2020 11:32	01.21.2020 11:52
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		0.662 0.200	0.394 0.202	<0.00202 0.00202	0.275 0.202	<0.198 0.198	<0.199 0.199
Toluene		18.8 0.200	14.2 0.202	0.00219 0.00202	9.59 0.202	5.92 0.198	5.73 0.199
Ethylbenzene		6.44 0.200	6.32 0.202	<0.00202 0.00202	4.05 0.202	3.37 0.198	2.87 0.199
m,p-Xylenes		54.6 0.400	52.9 0.404	0.00586 0.00403	36.1 0.403	36.8 0.397	27.6 0.398
o-Xylene		15.9 0.200	15.8 0.202	0.00386 0.00202	10.5 0.202	11.1 0.198	8.76 0.199
Total Xylenes		70.5 0.200	68.7 0.202	0.00972 0.00202	46.6 0.202	47.9 0.198	36.4 0.199
Total BTEX		96.4 0.200	89.6 0.202	0.0119 0.00202	60.5 0.202	57.2 0.198	45.0 0.199
TPH By SW8015 Mod	<i>Extracted:</i>	01.16.2020 11:00	01.16.2020 11:00	01.16.2020 11:00	01.16.2020 11:00	01.16.2020 11:00	01.16.2020 11:00
	<i>Analyzed:</i>	01.16.2020 16:22	01.16.2020 16:43	01.16.2020 17:04	01.16.2020 17:25	01.16.2020 17:46	01.16.2020 18:07
	<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)		4830 249	5470 249	<50.0 50.0	2840 50.0	4470 250	2940 49.9
Diesel Range Organics (DRO)		7870 249	9520 249	<50.0 50.0	5790 50.0	9700 250	5600 49.9
Motor Oil Range Hydrocarbons (MRO)		731 249	881 249	<50.0 50.0	520 50.0	904 250	477 49.9
Total TPH		13400 249	15900 249	<50.0 50.0	9150 50.0	15100 250	9020 49.9

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Debbie Simmons
Project Manager



Certificate of Analysis Summary 648654

GHD Services, INC- Midland, Midland, TX

Project Name: Enlink Falcon

Project Id: 11205561
Contact: Tom Larson
Project Location:

Date Received in Lab: Fri 01.10.2020 11:19
Report Date: 01.21.2020 17:23
Project Manager: Debbie Simmons

<i>Analysis Requested</i>	<i>Lab Id:</i>	648654-013	648654-014	648654-015			
	<i>Field Id:</i>	SL-13 @ 1.5'	SL-14 @ 1.5'	SL-15 @ 1.5'			
	<i>Depth:</i>	1.5- ft	1.5- ft	1.5- ft			
	<i>Matrix:</i>	SOIL	SOIL	SOIL			
	<i>Sampled:</i>	01.09.2020 13:15	01.09.2020 13:20	01.09.2020 13:25			
BTEX by EPA 8021B	<i>Extracted:</i>	01.20.2020 17:00	01.20.2020 17:00	01.20.2020 17:00			
	<i>Analyzed:</i>	01.21.2020 12:12	01.21.2020 12:32	01.21.2020 12:52			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
Benzene		<0.00199 0.00199	0.584 0.200	<0.202 0.202			
Toluene		0.00613 0.00199	19.4 0.200	1.21 0.202			
Ethylbenzene		0.0224 0.00199	6.61 0.200	1.34 0.202			
m,p-Xylenes		0.342 0.00398	52.4 0.400	14.3 0.403			
o-Xylene		0.136 0.00199	15.6 0.200	4.81 0.202			
Total Xylenes		0.478 0.00199	68.0 0.200	19.1 0.202			
Total BTEX		0.507 0.00199	94.6 0.200	21.7 0.202			
TPH By SW8015 Mod	<i>Extracted:</i>	01.16.2020 11:00	01.16.2020 11:00	01.16.2020 11:00			
	<i>Analyzed:</i>	01.16.2020 18:28	01.16.2020 18:49	01.16.2020 19:10			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		167 49.9	7430 250	2510 249			
Diesel Range Organics (DRO)		614 49.9	12900 250	6280 249			
Motor Oil Range Hydrocarbons (MRO)		78.4 49.9	1140 250	581 249			
Total TPH		859 49.9	21500 250	9370 249			

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Debbie Simmons
Project Manager



Analytical Report 648654

for

GHD Services, INC- Midland

Project Manager: Tom Larson

Enlink Falcon

11205561

01.21.2020

Collected By: Client



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

Xenco-Houston (EPA Lab Code: TX00122):

Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):

Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)

Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)

Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)

Xenco-Carlsbad (LELAP): Louisiana (05092)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Tampa: Florida (E87429), North Carolina (483)



01.21.2020

Project Manager: **Tom Larson**
GHD Services, INC- Midland
2135 S Loop 250 W
Midland, TX 79703

Reference: XENCO Report No(s): **648654**
Enlink Falcon
Project Address:

Tom Larson:

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) 648654. 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. 648654 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 'Debbie Simmons'. The signature is written in a cursive, flowing style.

Debbie Simmons
Project Manager

A Small Business and Minority Company

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

**Sample Cross Reference 648654****GHD Services, INC- Midland, Midland, TX**

Enlink Falcon

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SL-1 @ 1'	S	01.09.2020 12:00	1 ft	648654-001
SL-2 @ 2'	S	01.09.2020 12:05	2 ft	648654-002
SL-3 @ 2'	S	01.09.2020 12:10	2 ft	648654-003
SL-4 @ 2.5'	S	01.09.2020 12:20	2.5 ft	648654-004
SL-5 @ 2'	S	01.09.2020 12:30	2 ft	648654-005
SL-6 @ 2'	S	01.09.2020 12:35	2 ft	648654-006
SL-7 @ 1.5'	S	01.09.2020 12:40	1.5 ft	648654-007
SL-8 @ 1.5'	S	01.09.2020 12:45	1.5 ft	648654-008
SL-9 @ 1'	S	01.09.2020 12:50	1 ft	648654-009
SL-10 @ 1.5'	S	01.09.2020 12:55	1.5 ft	648654-010
SL-11 @ 1.5'	S	01.09.2020 13:05	1.5 ft	648654-011
SL-12 @ 1.5'	S	01.09.2020 13:10	1.5 ft	648654-012
SL-13 @ 1.5'	S	01.09.2020 13:15	1.5 ft	648654-013
SL-14 @ 1.5'	S	01.09.2020 13:20	1.5 ft	648654-014
SL-15 @ 1.5'	S	01.09.2020 13:25	1.5 ft	648654-015

**CASE NARRATIVE****Client Name: GHD Services, INC- Midland****Project Name: Enlink Falcon**Project ID: 11205561
Work Order Number(s): 648654Report Date: 01.21.2020
Date Received: 01.10.2020**Sample receipt non conformances and comments:****Sample receipt non conformances and comments per sample:**

None

Analytical non conformances and comments:

Batch: LBA-3113778 BTEX by EPA 8021B

Lab Sample ID 648654-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Toluene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Benzene, Ethylbenzene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 648654-001.

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 above QC limits. Matrix interferences is suspected. Samples affected are: 648654-001 S, 648654-001.

Benzene, Ethylbenzene, m,p-Xylenes, o-Xylene Relative Percent Difference (RPD) between matrix spike and duplicate were above quality control limits.

Samples in the analytical batch are: 648654-001

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3113912 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected.

Samples affected are: 648654-003, 648654-005, 648654-006, 648654-007, 648654-008, 648654-015, 648654-011, 648654-012, 648654-013, 648654-014, 648654-010.



Certificate of Analytical Results 648654

GHD Services, INC- Midland, Midland, TX

Enlink Falcon

Sample Id: **SL-1 @ 1'**
Lab Sample Id: 648654-001

Matrix: Soil
Date Collected: 01.09.2020 12:00

Date Received: 01.10.2020 11:19
Sample Depth: 1 ft

Analytical Method: TPH By SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3113633

Date Prep: 01.16.2020 11:00

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	160	49.9	mg/kg	01.16.2020 13:56		1
Diesel Range Organics (DRO)	C10C28DRO	615	49.9	mg/kg	01.16.2020 13:56		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	54.4	49.9	mg/kg	01.16.2020 13:56		1
Total TPH	PHCG35	829	49.9	mg/kg	01.16.2020 13:56		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-135	01.16.2020 13:56	
o-Terphenyl	84-15-1	111	%	70-135	01.16.2020 13:56	

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3113778

Date Prep: 01.18.2020 11:00

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	01.19.2020 10:12	U	1
Toluene	108-88-3	0.00422	0.00201	mg/kg	01.19.2020 10:12		1
Ethylbenzene	100-41-4	0.00479	0.00201	mg/kg	01.19.2020 10:12		1
m,p-Xylenes	179601-23-1	0.0833	0.00402	mg/kg	01.19.2020 10:12		1
o-Xylene	95-47-6	0.0392	0.00201	mg/kg	01.19.2020 10:12		1
Total Xylenes	1330-20-7	0.123	0.00201	mg/kg	01.19.2020 10:12		1
Total BTEX		0.132	0.00201	mg/kg	01.19.2020 10:12		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	92	%	70-130	01.19.2020 10:12	
4-Bromofluorobenzene	460-00-4	133	%	70-130	01.19.2020 10:12	**



Certificate of Analytical Results 648654

GHD Services, INC- Midland, Midland, TX

Enlink Falcon

Sample Id: SL-2 @ 2'

Matrix: Soil

Date Received: 01.10.2020 11:19

Lab Sample Id: 648654-002

Date Collected: 01.09.2020 12:05

Sample Depth: 2 ft

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.16.2020 11:00

Basis: Wet Weight

Seq Number: 3113633

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	4270	49.9	mg/kg	01.16.2020 14:17		1
Diesel Range Organics (DRO)	C10C28DRO	6720	49.9	mg/kg	01.16.2020 14:17		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	549	49.9	mg/kg	01.16.2020 14:17		1
Total TPH	PHCG35	11500	49.9	mg/kg	01.16.2020 14:17		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	121	%	70-135	01.16.2020 14:17	
o-Terphenyl	84-15-1	84	%	70-135	01.16.2020 14:17	

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 01.20.2020 17:00

Basis: Wet Weight

Seq Number: 3113912

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	1.01	1.00	mg/kg	01.21.2020 07:32		500
Toluene	108-88-3	27.2	1.00	mg/kg	01.21.2020 07:32		500
Ethylbenzene	100-41-4	5.74	1.00	mg/kg	01.21.2020 07:32		500
m,p-Xylenes	179601-23-1	59.9	2.00	mg/kg	01.21.2020 07:32		500
o-Xylene	95-47-6	15.3	1.00	mg/kg	01.21.2020 07:32		500
Total Xylenes	1330-20-7	75.2	1.00	mg/kg	01.21.2020 07:32		500
Total BTEX		109	1.00	mg/kg	01.21.2020 07:32		500

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	119	%	70-130	01.21.2020 07:32	
1,4-Difluorobenzene	540-36-3	96	%	70-130	01.21.2020 07:32	



Certificate of Analytical Results 648654

GHD Services, INC- Midland, Midland, TX

Enlink Falcon

Sample Id: **SL-3 @ 2'**

Matrix: Soil

Date Received: 01.10.2020 11:19

Lab Sample Id: 648654-003

Date Collected: 01.09.2020 12:10

Sample Depth: 2 ft

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.16.2020 11:00

Basis: Wet Weight

Seq Number: 3113633

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	281	49.8	mg/kg	01.16.2020 14:37		1
Diesel Range Organics (DRO)	C10C28DRO	687	49.8	mg/kg	01.16.2020 14:37		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	83.6	49.8	mg/kg	01.16.2020 14:37		1
Total TPH	PHCG35	1050	49.8	mg/kg	01.16.2020 14:37		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	120	%	70-135	01.16.2020 14:37	
o-Terphenyl	84-15-1	116	%	70-135	01.16.2020 14:37	

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 01.20.2020 17:00

Basis: Wet Weight

Seq Number: 3113912

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.21.2020 07:52	U	1
Toluene	108-88-3	0.0244	0.00200	mg/kg	01.21.2020 07:52		1
Ethylbenzene	100-41-4	0.131	0.00200	mg/kg	01.21.2020 07:52		1
m,p-Xylenes	179601-23-1	0.0749	0.00399	mg/kg	01.21.2020 07:52		1
o-Xylene	95-47-6	0.351	0.00200	mg/kg	01.21.2020 07:52		1
Total Xylenes	1330-20-7	0.426	0.00200	mg/kg	01.21.2020 07:52		1
Total BTEX		0.581	0.00200	mg/kg	01.21.2020 07:52		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	97	%	70-130	01.21.2020 07:52	
4-Bromofluorobenzene	460-00-4	300	%	70-130	01.21.2020 07:52	**



Certificate of Analytical Results 648654

GHD Services, INC- Midland, Midland, TX

Enlink Falcon

Sample Id: SL-4 @ 2.5'

Matrix: Soil

Date Received: 01.10.2020 11:19

Lab Sample Id: 648654-004

Date Collected: 01.09.2020 12:20

Sample Depth: 2.5 ft

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.16.2020 11:00

Basis: Wet Weight

Seq Number: 3113633

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	5310	250	mg/kg	01.17.2020 07:47		5
Diesel Range Organics (DRO)	C10C28DRO	8110	250	mg/kg	01.17.2020 07:47		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	846	250	mg/kg	01.17.2020 07:47		5
Total TPH	PHCG35	14300	250	mg/kg	01.17.2020 07:47		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	127	%	70-135	01.17.2020 07:47	
o-Terphenyl	84-15-1	109	%	70-135	01.17.2020 07:47	

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 01.20.2020 17:00

Basis: Wet Weight

Seq Number: 3113912

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	1.12	0.992	mg/kg	01.21.2020 08:12		500
Toluene	108-88-3	18.1	0.992	mg/kg	01.21.2020 08:12		500
Ethylbenzene	100-41-4	6.19	0.992	mg/kg	01.21.2020 08:12		500
m,p-Xylenes	179601-23-1	47.3	1.98	mg/kg	01.21.2020 08:12		500
o-Xylene	95-47-6	17.1	0.992	mg/kg	01.21.2020 08:12		500
Total Xylenes	1330-20-7	64.4	0.992	mg/kg	01.21.2020 08:12		500
Total BTEX		89.8	0.992	mg/kg	01.21.2020 08:12		500

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	130	%	70-130	01.21.2020 08:12	
1,4-Difluorobenzene	540-36-3	98	%	70-130	01.21.2020 08:12	



Certificate of Analytical Results 648654

GHD Services, INC- Midland, Midland, TX

Enlink Falcon

Sample Id: **SL-5 @ 2'**

Matrix: **Soil**

Date Received: 01.10.2020 11:19

Lab Sample Id: 648654-005

Date Collected: 01.09.2020 12:30

Sample Depth: 2 ft

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: **DVM**

% Moisture:

Analyst: **ARM**

Date Prep: 01.16.2020 11:00

Basis: **Wet Weight**

Seq Number: 3113633

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	6270	250	mg/kg	01.17.2020 08:08		5
Diesel Range Organics (DRO)	C10C28DRO	9740	250	mg/kg	01.17.2020 08:08		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	866	250	mg/kg	01.17.2020 08:08		5
Total TPH	PHCG35	16900	250	mg/kg	01.17.2020 08:08		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	128	%	70-135	01.17.2020 08:08	
o-Terphenyl	84-15-1	109	%	70-135	01.17.2020 08:08	

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: **KTL**

% Moisture:

Analyst: **KTL**

Date Prep: 01.20.2020 17:00

Basis: **Wet Weight**

Seq Number: 3113912

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.437	0.198	mg/kg	01.21.2020 08:32		100
Toluene	108-88-3	19.7	0.198	mg/kg	01.21.2020 08:32		100
Ethylbenzene	100-41-4	6.68	0.198	mg/kg	01.21.2020 08:32		100
m,p-Xylenes	179601-23-1	54.5	0.396	mg/kg	01.21.2020 08:32		100
o-Xylene	95-47-6	16.2	0.198	mg/kg	01.21.2020 08:32		100
Total Xylenes	1330-20-7	70.7	0.198	mg/kg	01.21.2020 08:32		100
Total BTEX		97.5	0.198	mg/kg	01.21.2020 08:32		100

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	01.21.2020 08:32	
4-Bromofluorobenzene	460-00-4	224	%	70-130	01.21.2020 08:32	**



Certificate of Analytical Results 648654

GHD Services, INC- Midland, Midland, TX

Enlink Falcon

Sample Id: **SL-6 @ 2'**

Matrix: Soil

Date Received: 01.10.2020 11:19

Lab Sample Id: 648654-006

Date Collected: 01.09.2020 12:35

Sample Depth: 2 ft

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.16.2020 11:00

Basis: Wet Weight

Seq Number: 3113633

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	4210	250	mg/kg	01.16.2020 15:41		5
Diesel Range Organics (DRO)	C10C28DRO	7640	250	mg/kg	01.16.2020 15:41		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	886	250	mg/kg	01.16.2020 15:41		5
Total TPH	PHCG35	12700	250	mg/kg	01.16.2020 15:41		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	128	%	70-135	01.16.2020 15:41	
o-Terphenyl	84-15-1	115	%	70-135	01.16.2020 15:41	

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 01.20.2020 17:00

Basis: Wet Weight

Seq Number: 3113912

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.423	0.198	mg/kg	01.21.2020 08:52		100
Toluene	108-88-3	17.7	0.198	mg/kg	01.21.2020 08:52		100
Ethylbenzene	100-41-4	5.02	0.198	mg/kg	01.21.2020 08:52		100
m,p-Xylenes	179601-23-1	43.1	0.397	mg/kg	01.21.2020 08:52		100
o-Xylene	95-47-6	12.7	0.198	mg/kg	01.21.2020 08:52		100
Total Xylenes	1330-20-7	55.8	0.198	mg/kg	01.21.2020 08:52		100
Total BTEX		78.9	0.198	mg/kg	01.21.2020 08:52		100

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	01.21.2020 08:52	
4-Bromofluorobenzene	460-00-4	215	%	70-130	01.21.2020 08:52	**



Certificate of Analytical Results 648654

GHD Services, INC- Midland, Midland, TX

Enlink Falcon

Sample Id: SL-7 @ 1.5'

Matrix: Soil

Date Received: 01.10.2020 11:19

Lab Sample Id: 648654-007

Date Collected: 01.09.2020 12:40

Sample Depth: 1.5 ft

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.16.2020 11:00

Basis: Wet Weight

Seq Number: 3113633

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	4830	249	mg/kg	01.16.2020 16:22		5
Diesel Range Organics (DRO)	C10C28DRO	7870	249	mg/kg	01.16.2020 16:22		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	731	249	mg/kg	01.16.2020 16:22		5
Total TPH	PHCG35	13400	249	mg/kg	01.16.2020 16:22		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	120	%	70-135	01.16.2020 16:22	
o-Terphenyl	84-15-1	107	%	70-135	01.16.2020 16:22	

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 01.20.2020 17:00

Basis: Wet Weight

Seq Number: 3113912

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.662	0.200	mg/kg	01.21.2020 10:11		100
Toluene	108-88-3	18.8	0.200	mg/kg	01.21.2020 10:11		100
Ethylbenzene	100-41-4	6.44	0.200	mg/kg	01.21.2020 10:11		100
m,p-Xylenes	179601-23-1	54.6	0.400	mg/kg	01.21.2020 10:11		100
o-Xylene	95-47-6	15.9	0.200	mg/kg	01.21.2020 10:11		100
Total Xylenes	1330-20-7	70.5	0.200	mg/kg	01.21.2020 10:11		100
Total BTEX		96.4	0.200	mg/kg	01.21.2020 10:11		100

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	220	%	70-130	01.21.2020 10:11	**
1,4-Difluorobenzene	540-36-3	97	%	70-130	01.21.2020 10:11	



Certificate of Analytical Results 648654

GHD Services, INC- Midland, Midland, TX

Enlink Falcon

Sample Id: **SL-8 @ 1.5'**

Matrix: Soil

Date Received: 01.10.2020 11:19

Lab Sample Id: 648654-008

Date Collected: 01.09.2020 12:45

Sample Depth: 1.5 ft

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.16.2020 11:00

Basis: Wet Weight

Seq Number: 3113633

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	5470	249	mg/kg	01.16.2020 16:43		5
Diesel Range Organics (DRO)	C10C28DRO	9520	249	mg/kg	01.16.2020 16:43		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	881	249	mg/kg	01.16.2020 16:43		5
Total TPH	PHCG35	15900	249	mg/kg	01.16.2020 16:43		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	123	%	70-135	01.16.2020 16:43	
o-Terphenyl	84-15-1	101	%	70-135	01.16.2020 16:43	

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 01.20.2020 17:00

Basis: Wet Weight

Seq Number: 3113912

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.394	0.202	mg/kg	01.21.2020 10:31		100
Toluene	108-88-3	14.2	0.202	mg/kg	01.21.2020 10:31		100
Ethylbenzene	100-41-4	6.32	0.202	mg/kg	01.21.2020 10:31		100
m,p-Xylenes	179601-23-1	52.9	0.404	mg/kg	01.21.2020 10:31		100
o-Xylene	95-47-6	15.8	0.202	mg/kg	01.21.2020 10:31		100
Total Xylenes	1330-20-7	68.7	0.202	mg/kg	01.21.2020 10:31		100
Total BTEX		89.6	0.202	mg/kg	01.21.2020 10:31		100

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	218	%	70-130	01.21.2020 10:31	**
1,4-Difluorobenzene	540-36-3	98	%	70-130	01.21.2020 10:31	



Certificate of Analytical Results 648654

GHD Services, INC- Midland, Midland, TX

Enlink Falcon

Sample Id: **SL-9 @ 1'**

Matrix: Soil

Date Received: 01.10.2020 11:19

Lab Sample Id: 648654-009

Date Collected: 01.09.2020 12:50

Sample Depth: 1 ft

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.16.2020 11:00

Basis: Wet Weight

Seq Number: 3113633

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.16.2020 17:04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.16.2020 17:04	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.16.2020 17:04	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.16.2020 17:04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	01.16.2020 17:04	
o-Terphenyl	84-15-1	102	%	70-135	01.16.2020 17:04	

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 01.20.2020 17:00

Basis: Wet Weight

Seq Number: 3113912

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	01.21.2020 10:52	U	1
Toluene	108-88-3	0.00219	0.00202	mg/kg	01.21.2020 10:52		1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	01.21.2020 10:52	U	1
m,p-Xylenes	179601-23-1	0.00586	0.00403	mg/kg	01.21.2020 10:52		1
o-Xylene	95-47-6	0.00386	0.00202	mg/kg	01.21.2020 10:52		1
Total Xylenes	1330-20-7	0.00972	0.00202	mg/kg	01.21.2020 10:52		1
Total BTEX		0.0119	0.00202	mg/kg	01.21.2020 10:52		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	97	%	70-130	01.21.2020 10:52	
1,4-Difluorobenzene	540-36-3	109	%	70-130	01.21.2020 10:52	



Certificate of Analytical Results 648654

GHD Services, INC- Midland, Midland, TX

Enlink Falcon

Sample Id: **SL-10 @ 1.5'**

Matrix: Soil

Date Received: 01.10.2020 11:19

Lab Sample Id: 648654-010

Date Collected: 01.09.2020 12:55

Sample Depth: 1.5 ft

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.16.2020 11:00

Basis: Wet Weight

Seq Number: 3113633

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	2840	50.0	mg/kg	01.16.2020 17:25		1
Diesel Range Organics (DRO)	C10C28DRO	5790	50.0	mg/kg	01.16.2020 17:25		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	520	50.0	mg/kg	01.16.2020 17:25		1
Total TPH	PHCG35	9150	50.0	mg/kg	01.16.2020 17:25		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	124	%	70-135	01.16.2020 17:25	
o-Terphenyl	84-15-1	102	%	70-135	01.16.2020 17:25	

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 01.20.2020 17:00

Basis: Wet Weight

Seq Number: 3113912

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.275	0.202	mg/kg	01.21.2020 11:12		100
Toluene	108-88-3	9.59	0.202	mg/kg	01.21.2020 11:12		100
Ethylbenzene	100-41-4	4.05	0.202	mg/kg	01.21.2020 11:12		100
m,p-Xylenes	179601-23-1	36.1	0.403	mg/kg	01.21.2020 11:12		100
o-Xylene	95-47-6	10.5	0.202	mg/kg	01.21.2020 11:12		100
Total Xylenes	1330-20-7	46.6	0.202	mg/kg	01.21.2020 11:12		100
Total BTEX		60.5	0.202	mg/kg	01.21.2020 11:12		100

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	187	%	70-130	01.21.2020 11:12	**
1,4-Difluorobenzene	540-36-3	95	%	70-130	01.21.2020 11:12	



Certificate of Analytical Results 648654

GHD Services, INC- Midland, Midland, TX

Enlink Falcon

Sample Id: **SL-11 @ 1.5'**

Matrix: Soil

Date Received: 01.10.2020 11:19

Lab Sample Id: 648654-011

Date Collected: 01.09.2020 13:05

Sample Depth: 1.5 ft

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.16.2020 11:00

Basis: Wet Weight

Seq Number: 3113633

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	4470	250	mg/kg	01.16.2020 17:46		5
Diesel Range Organics (DRO)	C10C28DRO	9700	250	mg/kg	01.16.2020 17:46		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	904	250	mg/kg	01.16.2020 17:46		5
Total TPH	PHCG35	15100	250	mg/kg	01.16.2020 17:46		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	125	%	70-135	01.16.2020 17:46	
o-Terphenyl	84-15-1	111	%	70-135	01.16.2020 17:46	

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 01.20.2020 17:00

Basis: Wet Weight

Seq Number: 3113912

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.198	0.198	mg/kg	01.21.2020 11:32	U	100
Toluene	108-88-3	5.92	0.198	mg/kg	01.21.2020 11:32		100
Ethylbenzene	100-41-4	3.37	0.198	mg/kg	01.21.2020 11:32		100
m,p-Xylenes	179601-23-1	36.8	0.397	mg/kg	01.21.2020 11:32		100
o-Xylene	95-47-6	11.1	0.198	mg/kg	01.21.2020 11:32		100
Total Xylenes	1330-20-7	47.9	0.198	mg/kg	01.21.2020 11:32		100
Total BTEX		57.2	0.198	mg/kg	01.21.2020 11:32		100

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	200	%	70-130	01.21.2020 11:32	**
1,4-Difluorobenzene	540-36-3	96	%	70-130	01.21.2020 11:32	



Certificate of Analytical Results 648654

GHD Services, INC- Midland, Midland, TX

Enlink Falcon

Sample Id: SL-12 @ 1.5'

Matrix: Soil

Date Received: 01.10.2020 11:19

Lab Sample Id: 648654-012

Date Collected: 01.09.2020 13:10

Sample Depth: 1.5 ft

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.16.2020 11:00

Basis: Wet Weight

Seq Number: 3113633

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	2940	49.9	mg/kg	01.16.2020 18:07		1
Diesel Range Organics (DRO)	C10C28DRO	5600	49.9	mg/kg	01.16.2020 18:07		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	477	49.9	mg/kg	01.16.2020 18:07		1
Total TPH	PHCG35	9020	49.9	mg/kg	01.16.2020 18:07		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	128	%	70-135	01.16.2020 18:07	
o-Terphenyl	84-15-1	110	%	70-135	01.16.2020 18:07	

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 01.20.2020 17:00

Basis: Wet Weight

Seq Number: 3113912

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.199	0.199	mg/kg	01.21.2020 11:52	U	100
Toluene	108-88-3	5.73	0.199	mg/kg	01.21.2020 11:52		100
Ethylbenzene	100-41-4	2.87	0.199	mg/kg	01.21.2020 11:52		100
m,p-Xylenes	179601-23-1	27.6	0.398	mg/kg	01.21.2020 11:52		100
o-Xylene	95-47-6	8.76	0.199	mg/kg	01.21.2020 11:52		100
Total Xylenes	1330-20-7	36.4	0.199	mg/kg	01.21.2020 11:52		100
Total BTEX		45.0	0.199	mg/kg	01.21.2020 11:52		100

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	189	%	70-130	01.21.2020 11:52	**
1,4-Difluorobenzene	540-36-3	100	%	70-130	01.21.2020 11:52	



Certificate of Analytical Results 648654

GHD Services, INC- Midland, Midland, TX

Enlink Falcon

Sample Id: **SL-13 @ 1.5'**

Matrix: Soil

Date Received: 01.10.2020 11:19

Lab Sample Id: 648654-013

Date Collected: 01.09.2020 13:15

Sample Depth: 1.5 ft

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.16.2020 11:00

Basis: Wet Weight

Seq Number: 3113633

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	167	49.9	mg/kg	01.16.2020 18:28		1
Diesel Range Organics (DRO)	C10C28DRO	614	49.9	mg/kg	01.16.2020 18:28		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	78.4	49.9	mg/kg	01.16.2020 18:28		1
Total TPH	PHCG35	859	49.9	mg/kg	01.16.2020 18:28		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-135	01.16.2020 18:28	
o-Terphenyl	84-15-1	118	%	70-135	01.16.2020 18:28	

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 01.20.2020 17:00

Basis: Wet Weight

Seq Number: 3113912

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.21.2020 12:12	U	1
Toluene	108-88-3	0.00613	0.00199	mg/kg	01.21.2020 12:12		1
Ethylbenzene	100-41-4	0.0224	0.00199	mg/kg	01.21.2020 12:12		1
m,p-Xylenes	179601-23-1	0.342	0.00398	mg/kg	01.21.2020 12:12		1
o-Xylene	95-47-6	0.136	0.00199	mg/kg	01.21.2020 12:12		1
Total Xylenes	1330-20-7	0.478	0.00199	mg/kg	01.21.2020 12:12		1
Total BTEX		0.507	0.00199	mg/kg	01.21.2020 12:12		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	91	%	70-130	01.21.2020 12:12	
4-Bromofluorobenzene	460-00-4	233	%	70-130	01.21.2020 12:12	**



Certificate of Analytical Results 648654

GHD Services, INC- Midland, Midland, TX

Enlink Falcon

Sample Id: SL-14 @ 1.5'

Matrix: Soil

Date Received: 01.10.2020 11:19

Lab Sample Id: 648654-014

Date Collected: 01.09.2020 13:20

Sample Depth: 1.5 ft

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.16.2020 11:00

Basis: Wet Weight

Seq Number: 3113633

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	7430	250	mg/kg	01.16.2020 18:49		5
Diesel Range Organics (DRO)	C10C28DRO	12900	250	mg/kg	01.16.2020 18:49		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	1140	250	mg/kg	01.16.2020 18:49		5
Total TPH	PHCG35	21500	250	mg/kg	01.16.2020 18:49		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	130	%	70-135	01.16.2020 18:49	
o-Terphenyl	84-15-1	124	%	70-135	01.16.2020 18:49	

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 01.20.2020 17:00

Basis: Wet Weight

Seq Number: 3113912

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.584	0.200	mg/kg	01.21.2020 12:32		100
Toluene	108-88-3	19.4	0.200	mg/kg	01.21.2020 12:32		100
Ethylbenzene	100-41-4	6.61	0.200	mg/kg	01.21.2020 12:32		100
m,p-Xylenes	179601-23-1	52.4	0.400	mg/kg	01.21.2020 12:32		100
o-Xylene	95-47-6	15.6	0.200	mg/kg	01.21.2020 12:32		100
Total Xylenes	1330-20-7	68.0	0.200	mg/kg	01.21.2020 12:32		100
Total BTEX		94.6	0.200	mg/kg	01.21.2020 12:32		100

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	224	%	70-130	01.21.2020 12:32	**
1,4-Difluorobenzene	540-36-3	101	%	70-130	01.21.2020 12:32	



Certificate of Analytical Results 648654

GHD Services, INC- Midland, Midland, TX

Enlink Falcon

Sample Id: SL-15 @ 1.5'

Matrix: Soil

Date Received: 01.10.2020 11:19

Lab Sample Id: 648654-015

Date Collected: 01.09.2020 13:25

Sample Depth: 1.5 ft

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.16.2020 11:00

Basis: Wet Weight

Seq Number: 3113633

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	2510	249	mg/kg	01.16.2020 19:10		5
Diesel Range Organics (DRO)	C10C28DRO	6280	249	mg/kg	01.16.2020 19:10		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	581	249	mg/kg	01.16.2020 19:10		5
Total TPH	PHCG35	9370	249	mg/kg	01.16.2020 19:10		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	128	%	70-135	01.16.2020 19:10	
o-Terphenyl	84-15-1	119	%	70-135	01.16.2020 19:10	

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 01.20.2020 17:00

Basis: Wet Weight

Seq Number: 3113912

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.202	0.202	mg/kg	01.21.2020 12:52	U	100
Toluene	108-88-3	1.21	0.202	mg/kg	01.21.2020 12:52		100
Ethylbenzene	100-41-4	1.34	0.202	mg/kg	01.21.2020 12:52		100
m,p-Xylenes	179601-23-1	14.3	0.403	mg/kg	01.21.2020 12:52		100
o-Xylene	95-47-6	4.81	0.202	mg/kg	01.21.2020 12:52		100
Total Xylenes	1330-20-7	19.1	0.202	mg/kg	01.21.2020 12:52		100
Total BTEX		21.7	0.202	mg/kg	01.21.2020 12:52		100

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	158	%	70-130	01.21.2020 12:52	**
1,4-Difluorobenzene	540-36-3	93	%	70-130	01.21.2020 12:52	



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



GHD Services, INC- Midland Enlink Falcon

Analytical Method: TPH By SW8015 Mod

Seq Number: 3113633

MB Sample Id: 7694529-1-BLK

Matrix: Solid

LCS Sample Id: 7694529-1-BKS

Prep Method: SW8015P

Date Prep: 01.16.2020

LCSD Sample Id: 7694529-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	1050	105	1030	103	70-135	2	20	mg/kg	01.16.2020 11:09	
Diesel Range Organics (DRO)	<15.0	1000	948	95	921	92	70-135	3	20	mg/kg	01.16.2020 11:09	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	106		115		111		70-135	%	01.16.2020 11:09
o-Terphenyl	113		112		108		70-135	%	01.16.2020 11:09

Analytical Method: TPH By SW8015 Mod

Seq Number: 3113633

Matrix: Solid

MB Sample Id: 7694529-1-BLK

Prep Method: SW8015P

Date Prep: 01.16.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	01.16.2020 10:48	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3113633

Matrix: Soil

Parent Sample Id: 648839-001

MS Sample Id: 648839-001 S

Prep Method: SW8015P

Date Prep: 01.16.2020

MSD Sample Id: 648839-001 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)	58.0	997	970	91	1020	96	70-135	5	20	mg/kg	01.16.2020 12:11	
Diesel Range Organics (DRO)	423	997	1320	90	1330	91	70-135	1	20	mg/kg	01.16.2020 12:11	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	106		111		70-135	%	01.16.2020 12:11
o-Terphenyl	90		109		70-135	%	01.16.2020 12:11

Analytical Method: BTEX by EPA 8021B

Seq Number: 3113778

Matrix: Solid

MB Sample Id: 7694719-1-BLK

LCS Sample Id: 7694719-1-BKS

Prep Method: SW5030B

Date Prep: 01.18.2020

LCSD Sample Id: 7694719-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000385	0.100	0.101	101	0.104	104	70-130	3	35	mg/kg	01.19.2020 07:53	
Toluene	0.00193	0.100	0.0945	95	0.0928	93	70-130	2	35	mg/kg	01.19.2020 07:53	
Ethylbenzene	<0.000565	0.100	0.0849	85	0.0851	85	70-130	0	35	mg/kg	01.19.2020 07:53	
m,p-Xylenes	0.00137	0.200	0.166	83	0.166	83	70-130	0	35	mg/kg	01.19.2020 07:53	
o-Xylene	<0.000344	0.100	0.0858	86	0.0856	86	70-130	0	35	mg/kg	01.19.2020 07:53	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	109		109		111		70-130	%	01.19.2020 07:53
4-Bromofluorobenzene	81		91		89		70-130	%	01.19.2020 07:53

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



GHD Services, INC- Midland Enlink Falcon

Analytical Method: BTEX by EPA 8021B

Seq Number: 3113912

MB Sample Id: 7694758-1-BLK

Matrix: Solid

LCS Sample Id: 7694758-1-BKS

Prep Method: SW5030B

Date Prep: 01.20.2020

LCSD Sample Id: 7694758-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000385	0.100	0.110	110	0.114	114	70-130	4	35	mg/kg	01.21.2020 03:32	
Toluene	<0.000456	0.100	0.0955	96	0.0995	100	70-130	4	35	mg/kg	01.21.2020 03:32	
Ethylbenzene	<0.000565	0.100	0.0882	88	0.0916	92	70-130	4	35	mg/kg	01.21.2020 03:32	
m,p-Xylenes	<0.00101	0.200	0.171	86	0.179	90	70-130	5	35	mg/kg	01.21.2020 03:32	
o-Xylene	<0.000344	0.100	0.0865	87	0.0902	90	70-130	4	35	mg/kg	01.21.2020 03:32	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		105		106		70-130	%	01.21.2020 03:32
4-Bromofluorobenzene	74		89		91		70-130	%	01.21.2020 03:32

Analytical Method: BTEX by EPA 8021B

Seq Number: 3113778

Parent Sample Id: 648654-001

Matrix: Soil

MS Sample Id: 648654-001 S

Prep Method: SW5030B

Date Prep: 01.18.2020

MSD Sample Id: 648654-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	0.000803	0.0998	0.0717	71	0.0469	46	70-130	42	35	mg/kg	01.19.2020 08:34	XF
Toluene	0.00422	0.0998	0.0730	69	0.0554	51	70-130	27	35	mg/kg	01.19.2020 08:34	X
Ethylbenzene	0.00479	0.0998	0.0790	74	0.0480	43	70-130	49	35	mg/kg	01.19.2020 08:34	XF
m,p-Xylenes	0.0833	0.200	0.373	145	0.170	43	70-130	75	35	mg/kg	01.19.2020 08:34	XF
o-Xylene	0.0392	0.0998	0.163	124	0.0838	45	70-130	64	35	mg/kg	01.19.2020 08:34	XF

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	95		103		70-130	%	01.19.2020 08:34
4-Bromofluorobenzene	169	**	122		70-130	%	01.19.2020 08:34

Analytical Method: BTEX by EPA 8021B

Seq Number: 3113912

Parent Sample Id: 649557-001

Matrix: Soil

MS Sample Id: 649557-001 S

Prep Method: SW5030B

Date Prep: 01.20.2020

MSD Sample Id: 649557-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000386	0.100	0.104	104	0.105	105	70-130	1	35	mg/kg	01.21.2020 04:12	
Toluene	0.000790	0.100	0.0912	90	0.0917	91	70-130	1	35	mg/kg	01.21.2020 04:12	
Ethylbenzene	<0.000567	0.100	0.0819	82	0.0818	82	70-130	0	35	mg/kg	01.21.2020 04:12	
m,p-Xylenes	<0.00102	0.201	0.158	79	0.157	79	70-130	1	35	mg/kg	01.21.2020 04:12	
o-Xylene	0.000550	0.100	0.0798	79	0.0796	79	70-130	0	35	mg/kg	01.21.2020 04:12	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	111		110		70-130	%	01.21.2020 04:12
4-Bromofluorobenzene	97		95		70-130	%	01.21.2020 04:12

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

Work Order No. 104 guesy

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) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000)

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Project Manager:	Tom Larson	Bill to: (if different)	GHD Midland
Company Name:	GHD	Company Name:	
Address:		Address:	
City, State ZIP:	Midland TX	City, State ZIP:	
Phone:		Email:	

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

Project Name:	EnLink Falcon	Turn Around	☒
Project Number:	11205561	Routine	☒
P.O. Number:	See 4400	Rush:	
Sampler's Name:	Tom Larson	Due Date:	

SAMPLE RECEIPT		Temp Blank:	Yes ☒ No ☐	Wet Ice:	Yes ☒ No ☐
Temperature (°C):	83	Thermometer ID: 192			
Received Intact:	Yes ☒ No ☐	Correction Factor:			
Cooler Custody Seals:	Yes ☒ No ☐ N/A	Total Containers:			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth in ft.	Number of Containers
SL-10 @ 1'	S	1-9-20	1200	1	X BTEX 8021 B
SL-2 @ 2'			1205	2	X TPH 8015 mod
SL-3 @ 2'			1210	2	
SL-4 @ 2.5'			1220	2.5	
SL-5 @ 2'			1230	2	
SL-6 @ 2'			1235	2	
SL-7 @ 1.5'			1240	1.5	
SL-8 @ 1.5'			1245	1.5	
SL-9 @ 1'			1250	1	
SL-10 @ 1.5'			1255	1.5	

BTEX 8021 B
 TPH 8015 mod

ANALYSIS REQUEST

Work Order Notes

Notes: (see 4400)
 reg (5 day) TAT

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

Sample Comments

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM	Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO2	Na	Sr	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
Tom Larson	GHD	11/1/20			



Chain of Custody

Work Order No. 0678

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
Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813)
Hobbs, NM (575-392-7550)

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Project Manager:		Bill to: (if different)	
Company Name:		Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:		Email:	

Work Order Comments			
Program: UST/ST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐			
State of Project:			
Reporting Level I ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐			
Deliverables: EDD ☐ ADAPT ☐ Other:			

Project Name:		ANALYSIS REQUEST						Work Order Notes	
Project Number:		Routine	☐						ray TAT
P. O. Number:		Rush:							
Sampler's Name:		Due Date:							

SAMPLE RECEIPT		Temp Blank:	Yes	No	Wet Ice:	Yes	No
Temperature (°C):	5.3	Thermometer ID					
Received intact:	Yes No	DE					
Cooler Custody Seals:	Yes No	ADA	Correction Factor:		0		
Sample Custody Seals:	Yes No	N/A	Total Containers:				

Number of Containers

TEX 802

5108 H

1500

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

1500

[illegible]

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

Sample Comments

Total 200.7 / 6010	200.8 / 6020:	8RCRA	13PPM	Texas	11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO ₂	Na	Sr	Ti	Sn	U	V	Zn
<i>Circle Method(s) and Metal(s) to be analyzed</i>		TCLP / SPLP 6010: 8RCRA		Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Ti	U														

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. A minimum charge 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 are enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>Toulasgi</i>	<i>[Signature]</i>	1/16/20	2		
3		1/16	4		
5		1/16	6		

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: GHD Services, INC- Midland

Date/ Time Received: 01.10.2020 11.19.00 AM

Work Order #: 648654

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	3.3
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	N/A
#18 Water VOC samples have zero headspace?	N/A

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

Analyst:

PH Device/Lot#:

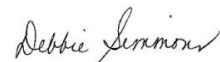
Checklist completed by:



Brianna Teel

Date: 01.10.2020

Checklist reviewed by:



Debbie Simmons

Date: 01.13.2020



Certificate of Analysis Summary 652071

GHD Services, INC- Midland, Midland, TX

Project Name: Enlink Falcon

Project Id: 11205561
Contact: Tom Larson
Project Location: Eddy County, NM

Date Received in Lab: Wed 02.12.2020 09:04

Report Date: 02.19.2020 15:11

Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	652071-001	652071-002	652071-003	652071-004	652071-005	652071-006
	Field Id:	ES-1	ES-2	ES-3	ES-4	ES-5	ES-6
	Depth:	1- ft	1- ft	1- ft	1- ft	1- ft	1- ft
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	02.11.2020 12:00	02.11.2020 12:10	02.11.2020 12:20	02.11.2020 12:30	02.11.2020 12:40	02.11.2020 12:50
BTEX by EPA 8021B	Extracted:	02.12.2020 10:15	02.12.2020 10:15	02.12.2020 10:15	02.12.2020 10:15	02.12.2020 10:15	02.12.2020 10:15
	Analyzed:	02.12.2020 18:03	02.12.2020 18:23	02.12.2020 18:44	02.12.2020 19:05	02.12.2020 19:25	02.12.2020 19:46
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198	<0.00202 0.00202	<0.00200 0.00200
Toluene		<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198	<0.00202 0.00202	<0.00200 0.00200
Ethylbenzene		<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198	<0.00202 0.00202	<0.00200 0.00200
m,p-Xylenes		<0.00397 0.00397	<0.00398 0.00398	<0.00398 0.00398	<0.00397 0.00397	<0.00403 0.00403	<0.00401 0.00401
o-Xylene		<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198	<0.00202 0.00202	<0.00200 0.00200
Total Xylenes		<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198	<0.00202 0.00202	<0.00200 0.00200
Total BTEX		<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198	<0.00202 0.00202	<0.00200 0.00200
TPH By SW8015 Mod	Extracted:	02.12.2020 15:00	02.12.2020 15:00	02.12.2020 15:00	02.12.2020 15:00	02.12.2020 15:00	02.12.2020 15:00
	Analyzed:	02.12.2020 16:10	02.12.2020 15:14	02.12.2020 16:29	02.12.2020 16:47	02.12.2020 17:06	02.12.2020 17:25
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<49.9 49.9
Diesel Range Organics (DRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<49.9 49.9
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<49.9 49.9
Total TPH		<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<49.9 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

Debbie Simmons
Project Manager



Certificate of Analysis Summary 652071

GHD Services, INC- Midland, Midland, TX

Project Name: Enlink Falcon

Project Id: 11205561
Contact: Tom Larson
Project Location: Eddy County, NM

Date Received in Lab: Wed 02.12.2020 09:04

Report Date: 02.19.2020 15:11

Project Manager: Debbie Simmons

<i>Analysis Requested</i>	<i>Lab Id:</i>	652071-007	652071-008	652071-009	652071-010		
	<i>Field Id:</i>	ES-7	ES-8	ES-9	ES-10		
	<i>Depth:</i>	1- ft	1- ft	1- ft	1- ft		
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL		
	<i>Sampled:</i>	02.11.2020 13:00	02.11.2020 13:10	02.11.2020 13:20	02.11.2020 13:30		
BTEX by EPA 8021B	<i>Extracted:</i>	02.12.2020 10:15	02.12.2020 10:15	02.12.2020 10:15	02.12.2020 10:15		
	<i>Analyzed:</i>	02.12.2020 20:06	02.12.2020 20:27	02.12.2020 20:48	02.12.2020 21:09		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Benzene		<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201		
Toluene		<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201		
Ethylbenzene		<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201		
m,p-Xylenes		<0.00402 0.00402	<0.00402 0.00402	<0.00400 0.00400	<0.00402 0.00402		
o-Xylene		<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201		
Total Xylenes		<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201		
Total BTEX		<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201		
TPH By SW8015 Mod	<i>Extracted:</i>	02.12.2020 15:00	02.12.2020 15:00	02.12.2020 15:00	02.12.2020 15:00		
	<i>Analyzed:</i>	02.12.2020 17:43	02.12.2020 18:02	02.12.2020 18:20	02.12.2020 18:38		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Gasoline Range Hydrocarbons (GRO)		<49.8 49.8	<50.0 50.0	<49.9 49.9	<49.9 49.9		
Diesel Range Organics (DRO)		848 49.8	<50.0 50.0	<49.9 49.9	<49.9 49.9		
Motor Oil Range Hydrocarbons (MRO)		120 49.8	<50.0 50.0	<49.9 49.9	<49.9 49.9		
Total TPH		968 49.8	<50.0 50.0	<49.9 49.9	<49.9 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

Debbie Simmons
Project Manager



Analytical Report 652071

for

GHD Services, INC- Midland

Project Manager: Tom Larson

Enlink Falcon

11205561

02.19.2020

Collected By: Client



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

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

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

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



02.19.2020

Project Manager: **Tom Larson**

GHD Services, INC- Midland

2135 S Loop 250 W

Midland, TX 79703

Reference: XENCO Report No(s): **652071**

Enlink Falcon

Project Address: Eddy County, NM

Tom Larson:

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) 652071. 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. 652071 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 'Debbie Simmons'. The signature is fluid and cursive, with a horizontal line drawn underneath it.

Debbie Simmons

Project Manager

A Small Business and Minority Company

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

**Sample Cross Reference 652071****GHD Services, INC- Midland, Midland, TX**

Enlink Falcon

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
ES-1	S	02.11.2020 12:00	1 ft	652071-001
ES-2	S	02.11.2020 12:10	1 ft	652071-002
ES-3	S	02.11.2020 12:20	1 ft	652071-003
ES-4	S	02.11.2020 12:30	1 ft	652071-004
ES-5	S	02.11.2020 12:40	1 ft	652071-005
ES-6	S	02.11.2020 12:50	1 ft	652071-006
ES-7	S	02.11.2020 13:00	1 ft	652071-007
ES-8	S	02.11.2020 13:10	1 ft	652071-008
ES-9	S	02.11.2020 13:20	1 ft	652071-009
ES-10	S	02.11.2020 13:30	1 ft	652071-010



CASE NARRATIVE

Client Name: GHD Services, INC- Midland

Project Name: Enlink Falcon

Project ID: 11205561
Work Order Number(s): 652071

Report Date: 02.19.2020
Date Received: 02.12.2020

Sample receipt non conformances and comments:

% moisture on COC but is not required.

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3116350 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



Certificate of Analytical Results 652071

GHD Services, INC- Midland, Midland, TX

Enlink Falcon

Sample Id: ES-1
Lab Sample Id: 652071-001

Matrix: Soil
Date Collected: 02.11.2020 12:00

Date Received: 02.12.2020 09:04
Sample Depth: 1 ft

Analytical Method: TPH By SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3116335

Date Prep: 02.12.2020 15:00

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.12.2020 16:10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.12.2020 16:10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.12.2020 16:10	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.12.2020 16:10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	79	%	70-135	02.12.2020 16:10	
o-Terphenyl	84-15-1	80	%	70-135	02.12.2020 16:10	

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3116350

Date Prep: 02.12.2020 10:15

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	02.12.2020 18:03	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	02.12.2020 18:03	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	02.12.2020 18:03	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	02.12.2020 18:03	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	02.12.2020 18:03	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	02.12.2020 18:03	U	1
Total BTEX		<0.00198	0.00198	mg/kg	02.12.2020 18:03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	102	%	70-130	02.12.2020 18:03	
1,4-Difluorobenzene	540-36-3	96	%	70-130	02.12.2020 18:03	



Certificate of Analytical Results 652071

GHD Services, INC- Midland, Midland, TX

Enlink Falcon

Sample Id: ES-2
Lab Sample Id: 652071-002

Matrix: Soil
Date Collected: 02.11.2020 12:10

Date Received: 02.12.2020 09:04
Sample Depth: 1 ft

Analytical Method: TPH By SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3116335

Prep Method: SW8015P

% Moisture:

Date Prep: 02.12.2020 15:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.12.2020 15:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.12.2020 15:14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.12.2020 15:14	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.12.2020 15:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	70	%	70-135	02.12.2020 15:14	
o-Terphenyl	84-15-1	70	%	70-135	02.12.2020 15:14	

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3116350

Prep Method: SW5030B

% Moisture:

Date Prep: 02.12.2020 10:15

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	02.12.2020 18:23	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	02.12.2020 18:23	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	02.12.2020 18:23	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	02.12.2020 18:23	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	02.12.2020 18:23	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	02.12.2020 18:23	U	1
Total BTEX		<0.00199	0.00199	mg/kg	02.12.2020 18:23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	95	%	70-130	02.12.2020 18:23	
4-Bromofluorobenzene	460-00-4	100	%	70-130	02.12.2020 18:23	



Certificate of Analytical Results 652071

GHD Services, INC- Midland, Midland, TX

Enlink Falcon

Sample Id: ES-3
Lab Sample Id: 652071-003

Matrix: Soil
Date Collected: 02.11.2020 12:20

Date Received: 02.12.2020 09:04
Sample Depth: 1 ft

Analytical Method: TPH By SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3116335

Date Prep: 02.12.2020 15:00

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	02.12.2020 16:29	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	02.12.2020 16:29	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	02.12.2020 16:29	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	02.12.2020 16:29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	75	%	70-135	02.12.2020 16:29	
o-Terphenyl	84-15-1	76	%	70-135	02.12.2020 16:29	

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3116350

Date Prep: 02.12.2020 10:15

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	02.12.2020 18:44	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	02.12.2020 18:44	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	02.12.2020 18:44	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	02.12.2020 18:44	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	02.12.2020 18:44	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	02.12.2020 18:44	U	1
Total BTEX		<0.00199	0.00199	mg/kg	02.12.2020 18:44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	102	%	70-130	02.12.2020 18:44	
1,4-Difluorobenzene	540-36-3	96	%	70-130	02.12.2020 18:44	



Certificate of Analytical Results 652071

GHD Services, INC- Midland, Midland, TX

Enlink Falcon

Sample Id: ES-4
Lab Sample Id: 652071-004

Matrix: Soil
Date Collected: 02.11.2020 12:30

Date Received: 02.12.2020 09:04
Sample Depth: 1 ft

Analytical Method: TPH By SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3116335

Date Prep: 02.12.2020 15:00

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	02.12.2020 16:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	02.12.2020 16:47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	02.12.2020 16:47	U	1
Total TPH	PHCG35	<49.8	49.8	mg/kg	02.12.2020 16:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	73	%	70-135	02.12.2020 16:47	
o-Terphenyl	84-15-1	74	%	70-135	02.12.2020 16:47	

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3116350

Date Prep: 02.12.2020 10:15

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	02.12.2020 19:05	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	02.12.2020 19:05	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	02.12.2020 19:05	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	02.12.2020 19:05	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	02.12.2020 19:05	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	02.12.2020 19:05	U	1
Total BTEX		<0.00198	0.00198	mg/kg	02.12.2020 19:05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	96	%	70-130	02.12.2020 19:05	
4-Bromofluorobenzene	460-00-4	102	%	70-130	02.12.2020 19:05	



Certificate of Analytical Results 652071

GHD Services, INC- Midland, Midland, TX

Enlink Falcon

Sample Id: ES-5
Lab Sample Id: 652071-005

Matrix: Soil
Date Collected: 02.11.2020 12:40

Date Received: 02.12.2020 09:04
Sample Depth: 1 ft

Analytical Method: TPH By SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3116335

Prep Method: SW8015P

% Moisture:

Date Prep: 02.12.2020 15:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.12.2020 17:06	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.12.2020 17:06	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.12.2020 17:06	U	1
Total TPH	PHCG35	<50.0	50.0	mg/kg	02.12.2020 17:06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	73	%	70-135	02.12.2020 17:06	
o-Terphenyl	84-15-1	74	%	70-135	02.12.2020 17:06	

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3116350

Prep Method: SW5030B

% Moisture:

Date Prep: 02.12.2020 10:15

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	02.12.2020 19:25	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	02.12.2020 19:25	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	02.12.2020 19:25	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	02.12.2020 19:25	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	02.12.2020 19:25	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	02.12.2020 19:25	U	1
Total BTEX		<0.00202	0.00202	mg/kg	02.12.2020 19:25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	96	%	70-130	02.12.2020 19:25	
4-Bromofluorobenzene	460-00-4	102	%	70-130	02.12.2020 19:25	



Certificate of Analytical Results 652071

GHD Services, INC- Midland, Midland, TX

Enlink Falcon

Sample Id: ES-6
Lab Sample Id: 652071-006

Matrix: Soil
Date Collected: 02.11.2020 12:50

Date Received: 02.12.2020 09:04
Sample Depth: 1 ft

Analytical Method: TPH By SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3116335

Date Prep: 02.12.2020 15:00

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	02.12.2020 17:25	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	02.12.2020 17:25	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	02.12.2020 17:25	U	1
Total TPH	PHCG35	<49.9	49.9	mg/kg	02.12.2020 17:25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	74	%	70-135	02.12.2020 17:25	
o-Terphenyl	84-15-1	74	%	70-135	02.12.2020 17:25	

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3116350

Date Prep: 02.12.2020 10:15

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.12.2020 19:46	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.12.2020 19:46	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.12.2020 19:46	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	02.12.2020 19:46	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.12.2020 19:46	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.12.2020 19:46	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.12.2020 19:46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	96	%	70-130	02.12.2020 19:46	
4-Bromofluorobenzene	460-00-4	100	%	70-130	02.12.2020 19:46	



Certificate of Analytical Results 652071

GHD Services, INC- Midland, Midland, TX

Enlink Falcon

Sample Id: ES-7
Lab Sample Id: 652071-007

Matrix: Soil
Date Collected: 02.11.2020 13:00

Date Received: 02.12.2020 09:04
Sample Depth: 1 ft

Analytical Method: TPH By SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3116335

Prep Method: SW8015P

% Moisture:

Date Prep: 02.12.2020 15:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	02.12.2020 17:43	U	1
Diesel Range Organics (DRO)	C10C28DRO	848	49.8	mg/kg	02.12.2020 17:43		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	120	49.8	mg/kg	02.12.2020 17:43		1
Total TPH	PHCG35	968	49.8	mg/kg	02.12.2020 17:43		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	75	%	70-135	02.12.2020 17:43	
o-Terphenyl	84-15-1	90	%	70-135	02.12.2020 17:43	

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3116350

Prep Method: SW5030B

% Moisture:

Date Prep: 02.12.2020 10:15

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	02.12.2020 20:06	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	02.12.2020 20:06	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	02.12.2020 20:06	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	02.12.2020 20:06	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	02.12.2020 20:06	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	02.12.2020 20:06	U	1
Total BTEX		<0.00201	0.00201	mg/kg	02.12.2020 20:06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	99	%	70-130	02.12.2020 20:06	
1,4-Difluorobenzene	540-36-3	96	%	70-130	02.12.2020 20:06	



Certificate of Analytical Results 652071

GHD Services, INC- Midland, Midland, TX

Enlink Falcon

Sample Id: **ES-8**
Lab Sample Id: 652071-008

Matrix: Soil
Date Collected: 02.11.2020 13:10

Date Received: 02.12.2020 09:04
Sample Depth: 1 ft

Analytical Method: TPH By SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3116335

Date Prep: 02.12.2020 15:00

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.12.2020 18:02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.12.2020 18:02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.12.2020 18:02	U	1
Total TPH	PHCG35	<50.0	50.0	mg/kg	02.12.2020 18:02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	72	%	70-135	02.12.2020 18:02	
o-Terphenyl	84-15-1	72	%	70-135	02.12.2020 18:02	

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3116350

Date Prep: 02.12.2020 10:15

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	02.12.2020 20:27	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	02.12.2020 20:27	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	02.12.2020 20:27	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	02.12.2020 20:27	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	02.12.2020 20:27	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	02.12.2020 20:27	U	1
Total BTEX		<0.00201	0.00201	mg/kg	02.12.2020 20:27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	102	%	70-130	02.12.2020 20:27	
1,4-Difluorobenzene	540-36-3	96	%	70-130	02.12.2020 20:27	



Certificate of Analytical Results 652071

GHD Services, INC- Midland, Midland, TX

Enlink Falcon

Sample Id: **ES-9**
Lab Sample Id: 652071-009

Matrix: Soil
Date Collected: 02.11.2020 13:20

Date Received: 02.12.2020 09:04
Sample Depth: 1 ft

Analytical Method: TPH By SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3116335

Date Prep: 02.12.2020 15:00

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	02.12.2020 18:20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	02.12.2020 18:20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	02.12.2020 18:20	U	1
Total TPH	PHCG35	<49.9	49.9	mg/kg	02.12.2020 18:20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	73	%	70-135	02.12.2020 18:20	
o-Terphenyl	84-15-1	74	%	70-135	02.12.2020 18:20	

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3116350

Date Prep: 02.12.2020 10:15

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.12.2020 20:48	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.12.2020 20:48	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.12.2020 20:48	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	02.12.2020 20:48	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.12.2020 20:48	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.12.2020 20:48	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.12.2020 20:48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	97	%	70-130	02.12.2020 20:48	
4-Bromofluorobenzene	460-00-4	109	%	70-130	02.12.2020 20:48	



Certificate of Analytical Results 652071

GHD Services, INC- Midland, Midland, TX

Enlink Falcon

Sample Id: **ES-10** Matrix: Soil Date Received: 02.12.2020 09:04
 Lab Sample Id: 652071-010 Date Collected: 02.11.2020 13:30 Sample Depth: 1 ft
 Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 02.12.2020 15:00 Basis: Wet Weight
 Seq Number: 3116335

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	02.12.2020 18:38	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	02.12.2020 18:38	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	02.12.2020 18:38	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	02.12.2020 18:38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	75	%	70-135	02.12.2020 18:38	
o-Terphenyl	84-15-1	74	%	70-135	02.12.2020 18:38	

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 02.12.2020 10:15 Basis: Wet Weight
 Seq Number: 3116350

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	02.12.2020 21:09	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	02.12.2020 21:09	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	02.12.2020 21:09	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	02.12.2020 21:09	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	02.12.2020 21:09	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	02.12.2020 21:09	U	1
Total BTEX		<0.00201	0.00201	mg/kg	02.12.2020 21:09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	109	%	70-130	02.12.2020 21:09	
1,4-Difluorobenzene	540-36-3	96	%	70-130	02.12.2020 21:09	



Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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



GHD Services, INC- Midland Enlink Falcon

Analytical Method: TPH By SW8015 Mod

Seq Number: 3116335

MB Sample Id: 7696510-1-BLK

Matrix: Solid

LCS Sample Id: 7696510-1-BKS

Prep Method: SW8015P

Date Prep: 02.12.2020

LCSD Sample Id: 7696510-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	886	89	883	88	70-135	0	20	mg/kg	02.12.2020 14:37	
Diesel Range Organics (DRO)	<15.0	1000	967	97	961	96	70-135	1	20	mg/kg	02.12.2020 14:37	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	79		97		98		70-135	%	02.12.2020 14:37
o-Terphenyl	81		94		91		70-135	%	02.12.2020 14:37

Analytical Method: TPH By SW8015 Mod

Seq Number: 3116335

Matrix: Solid

MB Sample Id: 7696510-1-BLK

Prep Method: SW8015P

Date Prep: 02.12.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	02.12.2020 14:18	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3116335

Matrix: Soil

Parent Sample Id: 652071-002

MS Sample Id: 652071-002 S

Prep Method: SW8015P

Date Prep: 02.12.2020

MSD Sample Id: 652071-002 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)	<15.0	997	818	82	836	84	70-135	2	20	mg/kg	02.12.2020 15:33	
Diesel Range Organics (DRO)	22.5	997	915	90	932	91	70-135	2	20	mg/kg	02.12.2020 15:33	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	89		90		70-135	%	02.12.2020 15:33
o-Terphenyl	81		84		70-135	%	02.12.2020 15:33

Analytical Method: BTEX by EPA 8021B

Seq Number: 3116350

Matrix: Solid

MB Sample Id: 7696472-1-BLK

LCS Sample Id: 7696472-1-BKS

Prep Method: SW5030B

Date Prep: 02.12.2020

LCSD Sample Id: 7696472-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.110	110	0.111	111	70-130	1	35	mg/kg	02.12.2020 15:15	
Toluene	<0.00200	0.100	0.101	101	0.102	102	70-130	1	35	mg/kg	02.12.2020 15:15	
Ethylbenzene	<0.00200	0.100	0.0961	96	0.0987	99	70-130	3	35	mg/kg	02.12.2020 15:15	
m,p-Xylenes	<0.00400	0.200	0.189	95	0.197	99	70-130	4	35	mg/kg	02.12.2020 15:15	
o-Xylene	<0.00200	0.100	0.0929	93	0.0964	96	70-130	4	35	mg/kg	02.12.2020 15:15	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	94		93		93		70-130	%	02.12.2020 15:15
4-Bromofluorobenzene	105		93		97		70-130	%	02.12.2020 15:15

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



GHD Services, INC- Midland
Enlink Falcon

Analytical Method: BTEX by EPA 8021B

Seq Number: 3116350

Parent Sample Id: 652071-001

Matrix: Soil

MS Sample Id: 652071-001 S

Prep Method: SW5030B

Date Prep: 02.12.2020

MSD Sample Id: 652071-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.107	107	0.103	103	70-130	4	35	mg/kg	02.12.2020 16:10	
Toluene	<0.00200	0.0998	0.0989	99	0.0946	95	70-130	4	35	mg/kg	02.12.2020 16:10	
Ethylbenzene	<0.00200	0.0998	0.0964	97	0.0909	91	70-130	6	35	mg/kg	02.12.2020 16:10	
m,p-Xylenes	<0.00399	0.200	0.193	97	0.181	91	70-130	6	35	mg/kg	02.12.2020 16:10	
o-Xylene	<0.00200	0.0998	0.0942	94	0.0883	88	70-130	6	35	mg/kg	02.12.2020 16:10	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	94		94		70-130	%	02.12.2020 16:10
4-Bromofluorobenzene	100		97		70-130	%	02.12.2020 16:10

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



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Lakeland, Florida (863-646-8526)

Tampa, Florida (813-620-2000)

CHAIN OF CUSTODY

Page 1 Of 1

Client / Reporting Information						Project Information								Analytical Information							Matrix Codes							
Company Name / Branch: GHD / Midland Company Address: 2135 S. Loop 250 West, Midland, TX 79703						Project Name/Number: Enlink Falcon/11205561 Project Location: Eddy County NM																						
Email: Tom.Larson@ghd.com Phone No.: 432-686-0086 Project Contact: Tom Larson						Invoice To:																						
Samplers Name Glenn Quiney/Matt Laughlin/Pillip Cole						PO Number:																						
No.	Field ID / Point of Collection																											
1	ES-1	Sample Depth	Date	Time	Matrix	# of bottles	HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	TPH SW8015Mod							BTEX 8021B		%				
2	ES-2	1ft	2/11/2020	1200	S	1								X	X	X	X	X	X	X	X	X	X	X				
3	ES-3	1ft	2/11/2020	1210	S	1								X	X	X	X	X	X	X	X	X	X	X				
4	ES-4	1ft	2/11/2020	1220	S	1								X	X	X	X	X	X	X	X	X	X	X				
5	ES-5	1ft	2/11/2020	1230	S	1								X	X	X	X	X	X	X	X	X	X	X				
6	ES-6	1ft	2/11/2020	1240	S	1								X	X	X	X	X	X	X	X	X	X	X				
7	ES-7	1ft	2/11/2020	1250	S	1								X	X	X	X	X	X	X	X	X	X	X				
8	ES-8	1ft	2/11/2020	1300	S	1								X	X	X	X	X	X	X	X	X	X	X				
9	ES-9	1ft	2/11/2020	1310	S	1								X	X	X	X	X	X	X	X	X	X	X				
10	ES-10	1ft	2/11/2020	1320	S	1								X	X	X	X	X	X	X	X	X	X	X				
Turnaround Time (Business days)					Data Deliverable Information					Notes:																		
☐ Same Day TAT					☐ 5 Day TAT					☐ Level II Std QC					☐ Level IV (Full Data Pkg / raw data)					See SSOW								
☐ Next Day EMERGENCY					☐ 7 Day TAT					☐ Level III Std QC+ Forms					☐ TRRP Level IV													
☐ 2 Day EMERGENCY					☒ Contract TAT					☐ Level 3 (CLP Forms)					☐ UST / RG -411													
☐ 3 Day EMERGENCY										☐ TRRP Checklist																		
TAT Starts Day received by Lab, if received by 5:00 pm															FED-EX / UPS: Tracking #													
Relinquished by Sampler:															Received By:							Date Time:						
Glenn Quiney															2-12-2020							2-12-2020						
Relinquished by:															Received By:							Date Time:						
3															3							4						
Relinquished by:															Received By:							Date Time:						
5															5							4						
Custody Seal #															Preserved Where applicable							Once						
Copies Temp.															Thermo Corr. Factor							2.56						
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laboratories and its affiliates. Subcontractors and assigns XENCO's standard terms and conditions of service unless otherwise indicated on a form associated with this contract.																												

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: GHD Services, INC- Midland

Date/ Time Received: 02.12.2020 09.04.00 AM

Work Order #: 652071

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	2.3
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	N/A
#18 Water VOC samples have zero headspace?	N/A

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

Analyst:

PH Device/Lot#:

Checklist completed by:



Brianna Teel

Date: 02.12.2020

Checklist reviewed by:



Debbie Simmons

Date: 02.14.2020



Certificate of Analysis Summary 654090

GHD Services, INC- Midland, Midland, TX

Project Name: Enlink Falcon Spill

Project Id: 11205561-01

Contact: Tom Larson

Project Location:

Date Received in Lab: Fri 02.28.2020 11:54

Report Date: 03.06.2020 17:46

Project Manager: Debbie Simmons

<i>Analysis Requested</i>	<i>Lab Id:</i>	654090-001	654090-002	654090-003	654090-004	654090-005	654090-006
	<i>Field Id:</i>	SL-1A	SL-2A	SL-3A	SL-4A	SL-5A	SL-6A
	<i>Depth:</i>	5- ft	5- ft	4.5- ft	4.5- ft	4.5- ft	4.5- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	02.27.2020 10:55	02.27.2020 11:05	02.27.2020 11:20	02.27.2020 11:50	02.27.2020 11:55	02.27.2020 12:20
BTEX by EPA 8021B SUB: T104704219-19-21	<i>Extracted:</i>	03.04.2020 15:00	03.04.2020 14:30	03.04.2020 14:30	03.05.2020 14:00	03.04.2020 14:30	03.04.2020 14:30
	<i>Analyzed:</i>	03.04.2020 21:54	03.05.2020 05:28	03.05.2020 05:52	03.05.2020 22:53	03.05.2020 06:41	03.05.2020 07:05
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00100 0.00100	<0.00101 0.00101	<0.00101 0.00101	0.165 0.0201	<0.000994 0.000994	<0.00101 0.00101
Toluene		<0.00100 0.00100	<0.00101 0.00101	<0.00101 0.00101	2.08 0.0201	0.00358 0.000994	<0.00101 0.00101
Ethylbenzene		<0.00100 0.00100	<0.00101 0.00101	<0.00101 0.00101	0.602 0.0201	0.00835 0.000994	<0.00101 0.00101
m,p-Xylenes		0.00551 F 0.00200	<0.00202 0.00202	<0.00202 0.00202	5.63 0.0402	0.0333 0.00199	0.00604 0.00201
o-Xylene		0.00170 F 0.00100	<0.00101 0.00101	<0.00101 0.00101	1.81 0.0201	0.0101 0.000994	<0.00101 0.00101
Total Xylenes		0.00721 0.00100	<0.00101 0.00101	<0.00101 0.00101	7.44 0.0201	0.0434 0.000994	0.00604 0.00101
Total BTEX		0.00721 0.00100	<0.00101 0.00101	<0.00101 0.00101	10.3 0.0201	0.0553 0.000994	0.00604 0.00101
Chloride by EPA 300	<i>Extracted:</i>					03.04.2020 11:40	
	<i>Analyzed:</i>					03.04.2020 13:17	
	<i>Units/RL:</i>					mg/kg RL	
Chloride						5.40 4.99	
TPH By SW8015 Mod	<i>Extracted:</i>	02.29.2020 10:00	02.29.2020 10:00	02.29.2020 10:00	02.29.2020 10:00	02.29.2020 10:00	02.29.2020 10:00
	<i>Analyzed:</i>	02.29.2020 14:43	02.29.2020 15:45	02.29.2020 16:06	03.01.2020 09:14	02.29.2020 16:48	02.29.2020 17:09
	<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	<49.9 49.9	<50.0 50.0	4890 250	<50.0 50.0	<49.8 49.8
Diesel Range Organics (DRO)		425 49.9	<49.9 49.9	<50.0 50.0	8480 250	128 50.0	61.1 49.8
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<49.9 49.9	<50.0 50.0	860 250	53.4 50.0	<49.8 49.8
Total TPH		425 49.9	<49.9 49.9	<50.0 50.0	14200 250	181 50.0	61.1 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

Debbie Simmons
Project Manager



Certificate of Analysis Summary 654090

GHD Services, INC- Midland, Midland, TX

Project Name: Enlink Falcon Spill

Project Id: 11205561-01

Contact: Tom Larson

Project Location:

Date Received in Lab: Fri 02.28.2020 11:54

Report Date: 03.06.2020 17:46

Project Manager: Debbie Simmons

<i>Analysis Requested</i>	<i>Lab Id:</i>	654090-007	654090-008	654090-009	654090-010	654090-011	654090-012
	<i>Field Id:</i>	SL-7A	SL-8A	SL-10A	SL-11A	SL-12A	SL-13A
	<i>Depth:</i>	5- ft	5- ft	5- ft	5- ft	4- ft	5.5- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	02.27.2020 12:30	02.27.2020 12:35	02.27.2020 12:40	02.27.2020 13:20	02.27.2020 11:35	02.27.2020 13:35
BTEX by EPA 8021B SUB: T104704219-19-21	<i>Extracted:</i>	03.04.2020 14:30	03.04.2020 14:30	03.04.2020 14:30	03.04.2020 15:00	03.04.2020 15:00	03.04.2020 15:00
	<i>Analyzed:</i>	03.05.2020 07:30	03.05.2020 07:54	03.05.2020 08:18	03.04.2020 23:41	03.05.2020 00:08	03.05.2020 00:35
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.000996 0.000996	<0.000990 0.000990	<0.000990 0.000990	<0.00100 0.00100	<0.000994 0.000994	<0.000990 0.000990
Toluene		<0.000996 0.000996	<0.000990 0.000990	<0.000990 0.000990	<0.00100 0.00100	<0.000994 0.000994	<0.000990 0.000990
Ethylbenzene		0.000996 0.000996	<0.000990 0.000990	<0.000990 0.000990	<0.00100 0.00100	<0.000994 0.000994	<0.000990 0.000990
m,p-Xylenes		0.00279 0.00199	0.00198 0.00198	<0.00198 0.00198	<0.00201 0.00201	<0.00199 0.00199	<0.00198 0.00198
o-Xylene		0.00199 0.000996	<0.000990 0.000990	<0.000990 0.000990	<0.00100 0.00100	<0.000994 0.000994	<0.000990 0.000990
Total Xylenes		0.00478 0.000996	0.00198 0.000990	<0.000990 0.000990	<0.00100 0.00100	<0.000994 0.000994	<0.000990 0.000990
Total BTEX		0.00578 0.000996	0.00198 0.000990	<0.000990 0.000990	<0.00100 0.00100	<0.000994 0.000994	<0.000990 0.000990
Chloride by EPA 300	<i>Extracted:</i>					03.04.2020 11:40	
	<i>Analyzed:</i>					03.04.2020 13:22	
	<i>Units/RL:</i>					mg/kg RL	
Chloride						<4.95 4.95	
TPH By SW8015 Mod	<i>Extracted:</i>	02.29.2020 10:00	02.29.2020 10:00	02.29.2020 10:00	02.29.2020 10:00	02.29.2020 10:00	02.29.2020 10:00
	<i>Analyzed:</i>	02.29.2020 17:30	02.29.2020 17:51	02.29.2020 18:12	02.29.2020 18:33	02.29.2020 19:15	02.29.2020 19:36
	<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)		65.0 49.9	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0
Diesel Range Organics (DRO)		662 49.9	115 49.9	<50.0 50.0	94.6 50.0	<49.9 49.9	85.9 50.0
Motor Oil Range Hydrocarbons (MRO)		71.5 49.9	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0
Total TPH		799 49.9	115 49.9	<50.0 50.0	94.6 50.0	<49.9 49.9	85.9 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

Debbie Simmons
Project Manager



Certificate of Analysis Summary 654090

GHD Services, INC- Midland, Midland, TX

Project Name: Enlink Falcon Spill

Project Id: 11205561-01

Contact: Tom Larson

Project Location:

Date Received in Lab: Fri 02.28.2020 11:54

Report Date: 03.06.2020 17:46

Project Manager: Debbie Simmons

<i>Analysis Requested</i>	<i>Lab Id:</i>	654090-013	654090-014	654090-015	654090-016	654090-017	654090-018
	<i>Field Id:</i>	SL-14A	SL-15A	ES-11	ES-7A	SL-16	SL-17
	<i>Depth:</i>	5- ft	4.5- ft	3.5- ft	3- ft	7- ft	7.5- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	02.27.2020 13:55	02.27.2020 14:20	02.27.2020 15:00	02.27.2020 14:30	02.27.2020 15:30	02.27.2020 16:00
BTEX by EPA 8021B SUB: T104704219-19-21	<i>Extracted:</i>	03.04.2020 15:00	03.04.2020 15:00	03.04.2020 15:00	03.04.2020 15:00	03.04.2020 15:00	03.04.2020 15:00
	<i>Analyzed:</i>	03.05.2020 01:02	03.05.2020 01:29	03.05.2020 01:56	03.05.2020 02:23	03.05.2020 02:50	03.05.2020 03:17
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.000994 0.000994	<0.00100 0.00100	<0.000992 0.000992	<0.00100 0.00100	<0.00100 0.00100	<0.000994 0.000994
Toluene		<0.000994 0.000994	<0.00100 0.00100	<0.000992 0.000992	<0.00100 0.00100	<0.00100 0.00100	<0.000994 0.000994
Ethylbenzene		<0.000994 0.000994	<0.00100 0.00100	<0.000992 0.000992	<0.00100 0.00100	<0.00100 0.00100	<0.000994 0.000994
m,p-Xylenes		<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198	<0.00201 0.00201	0.0507 0.00201	<0.00199 0.00199
o-Xylene		<0.000994 0.000994	<0.00100 0.00100	<0.000992 0.000992	<0.00100 0.00100	0.0190 0.00100	<0.000994 0.000994
Total Xylenes		<0.000994 0.000994	<0.00100 0.00100	<0.000992 0.000992	<0.00100 0.00100	0.0697 0.00100	<0.000994 0.000994
Total BTEX		<0.000994 0.000994	<0.00100 0.00100	<0.000992 0.000992	<0.00100 0.00100	0.0697 0.00100	<0.000994 0.000994
Chloride by EPA 300	<i>Extracted:</i>		03.04.2020 11:40				
	<i>Analyzed:</i>		03.04.2020 13:27				
	<i>Units/RL:</i>		mg/kg RL				
Chloride			<4.97 4.97				
TPH By SW8015 Mod	<i>Extracted:</i>	02.29.2020 10:00	02.29.2020 10:00	02.29.2020 10:00	02.29.2020 10:00	02.29.2020 10:00	02.29.2020 10:00
	<i>Analyzed:</i>	02.29.2020 19:56	02.29.2020 20:17	02.29.2020 20:38	02.29.2020 20:59	02.29.2020 21:20	02.29.2020 21:41
	<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	<49.9 49.9	<49.8 49.8	<49.9 49.9	169 50.0	<50.0 50.0
Diesel Range Organics (DRO)		<50.0 50.0	<49.9 49.9	<49.8 49.8	<49.9 49.9	701 50.0	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<49.9 49.9	<49.8 49.8	<49.9 49.9	56.9 50.0	<50.0 50.0
Total TPH		<50.0 50.0	<49.9 49.9	<49.8 49.8	<49.9 49.9	927 50.0	<50.0 50.0

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Debbie Simmons
Project Manager



Certificate of Analysis Summary 654090

GHD Services, INC- Midland, Midland, TX

Project Name: Enlink Falcon Spill

Project Id: 11205561-01

Contact: Tom Larson

Project Location:

Date Received in Lab: Fri 02.28.2020 11:54

Report Date: 03.06.2020 17:46

Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	654090-019	654090-020	654090-021	654090-022	654090-023	654090-024
	Field Id:	SL-18	HD-1	HD-2	HD-3	HD-4	HD-5
	Depth:	8- ft	0-6 In	0-6 In	0-6 In	0-6 In	0-6 In
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	02.27.2020 16:45	02.27.2020 10:45	02.27.2020 11:00	02.27.2020 11:15	02.27.2020 11:30	02.27.2020 11:45
BTEX by EPA 8021B SUB: T104704219-19-21	Extracted:	03.04.2020 15:00	03.05.2020 14:00	03.04.2020 15:00	03.04.2020 15:00	03.04.2020 15:00	03.04.2020 15:00
	Analyzed:	03.05.2020 05:04	03.05.2020 18:54	03.05.2020 05:31	03.05.2020 05:58	03.05.2020 06:25	03.05.2020 06:52
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00100 0.00100	<0.000996 0.000996	<0.000990 0.000990	<0.00100 0.00100	<0.00101 0.00101	<0.000998 0.000998
Toluene		<0.00100 0.00100	<0.000996 0.000996	<0.000990 0.000990	<0.00100 0.00100	<0.00101 0.00101	<0.000998 0.000998
Ethylbenzene		<0.00100 0.00100	<0.000996 0.000996	<0.000990 0.000990	<0.00100 0.00100	<0.00101 0.00101	<0.000998 0.000998
m,p-Xylenes		<0.00201 0.00201	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200
o-Xylene		0.00110 0.00100	<0.000996 0.000996	<0.000990 0.000990	<0.00100 0.00100	<0.00101 0.00101	<0.000998 0.000998
Total Xylenes		0.00110 0.00100	<0.000996 0.000996	<0.000990 0.000990	<0.00100 0.00100	<0.00101 0.00101	<0.000998 0.000998
Total BTEX		0.00110 0.00100	<0.000996 0.000996	<0.000990 0.000990	<0.00100 0.00100	<0.00101 0.00101	<0.000998 0.000998
Chloride by EPA 300	Extracted:			03.04.2020 11:40			
	Analyzed:			03.04.2020 13:32			
	Units/RL:			mg/kg RL			
Chloride				<5.02 5.02			
TPH By SW8015 Mod	Extracted:	02.29.2020 10:00	02.29.2020 10:00	02.29.2020 10:00	02.29.2020 10:00	02.29.2020 10:00	02.29.2020 10:00
	Analyzed:	02.29.2020 22:02	02.29.2020 22:23	03.01.2020 00:07	03.01.2020 01:10	03.01.2020 01:31	03.01.2020 01:52
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9	<49.8 49.8	<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0
Diesel Range Organics (DRO)		<49.9 49.9	<49.8 49.8	109 49.9	74.8 49.8	82.1 50.0	80.1 50.0
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<49.8 49.8	<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0
Total TPH		<49.9 49.9	<49.8 49.8	109 49.9	74.8 49.8	82.1 50.0	80.1 50.0

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Debbie Simmons
Project Manager



Certificate of Analysis Summary 654090

GHD Services, INC- Midland, Midland, TX

Project Name: Enlink Falcon Spill

Project Id: 11205561-01

Contact: Tom Larson

Project Location:

Date Received in Lab: Fri 02.28.2020 11:54

Report Date: 03.06.2020 17:46

Project Manager: Debbie Simmons

Analysis Requested	Lab Id:	654090-025	654090-026	654090-027	654090-028	654090-029	654090-030
	Field Id:	HD-6	HD-7	HD-8	HD-9	HD-10	HD-11
	Depth:	0-6 In	0-6 In	0-6 In	0-6 In	0-6 In	0-6 In
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	02.27.2020 12:00	02.27.2020 12:15	02.27.2020 12:30	02.27.2020 12:45	02.27.2020 13:00	02.27.2020 13:15
BTEX by EPA 8021B SUB: T104704219-19-21	Extracted:	03.04.2020 15:00	03.04.2020 15:00	03.04.2020 15:00	03.04.2020 15:00	03.04.2020 15:00	03.05.2020 14:00
	Analyzed:	03.05.2020 07:19	03.05.2020 07:46	03.05.2020 08:13	03.05.2020 08:40	03.05.2020 09:06	03.05.2020 20:41
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00100 0.00100	<0.000994 0.000994	<0.00100 0.00100	<0.000994 0.000994	<0.000996 0.000996	<0.00100 0.00100
Toluene		<0.00100 0.00100	<0.000994 0.000994	<0.00100 0.00100	<0.000994 0.000994	<0.000996 0.000996	<0.00100 0.00100
Ethylbenzene		<0.00100 0.00100	<0.000994 0.000994	<0.00100 0.00100	<0.000994 0.000994	<0.000996 0.000996	<0.00100 0.00100
m,p-Xylenes		<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200
o-Xylene		<0.00100 0.00100	<0.000994 0.000994	<0.00100 0.00100	<0.000994 0.000994	<0.000996 0.000996	<0.00100 0.00100
Total Xylenes		<0.00100 0.00100	<0.000994 0.000994	<0.00100 0.00100	<0.000994 0.000994	<0.000996 0.000996	<0.00100 0.00100
Total BTEX		<0.00100 0.00100	<0.000994 0.000994	<0.00100 0.00100	<0.000994 0.000994	<0.000996 0.000996	<0.00100 0.00100
TPH By SW8015 Mod	Extracted:	02.29.2020 10:00	02.29.2020 10:00	02.29.2020 10:00	02.29.2020 10:00	02.29.2020 10:00	02.29.2020 10:00
	Analyzed:	03.01.2020 02:13	03.01.2020 02:34	03.01.2020 02:55	03.01.2020 03:16	03.01.2020 03:37	03.01.2020 03:57
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9	<50.0 50.0	<49.8 49.8	<50.0 50.0	<49.9 49.9	<50.0 50.0
Diesel Range Organics (DRO)		96.2 49.9	<50.0 50.0	114 49.8	<50.0 50.0	<49.9 49.9	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<50.0 50.0	<49.8 49.8	<50.0 50.0	<49.9 49.9	<50.0 50.0
Total TPH		96.2 49.9	<50.0 50.0	114 49.8	<50.0 50.0	<49.9 49.9	<50.0 50.0

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Debbie Simmons
Project Manager



Certificate of Analysis Summary 654090

GHD Services, INC- Midland, Midland, TX

Project Name: Enlink Falcon Spill

Project Id: 11205561-01

Contact: Tom Larson

Project Location:

Date Received in Lab: Fri 02.28.2020 11:54

Report Date: 03.06.2020 17:46

Project Manager: Debbie Simmons

<i>Analysis Requested</i>	<i>Lab Id:</i>	654090-031	654090-032	654090-033	654090-034		
	<i>Field Id:</i>	HD-12	HD-13	HD-14	HD-15		
	<i>Depth:</i>	0-6 In	0-6 In	0-6 In	0-6 In		
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL		
	<i>Sampled:</i>	02.27.2020 13:30	02.27.2020 13:45	02.27.2020 14:00	02.27.2020 14:15		
BTEX by EPA 8021B SUB: T104704219-19-21	<i>Extracted:</i>	03.05.2020 14:00	03.05.2020 14:00	03.05.2020 14:00	03.05.2020 14:00		
	<i>Analyzed:</i>	03.05.2020 21:08	03.05.2020 21:34	03.05.2020 22:00	03.05.2020 22:27		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Benzene		<0.000994 0.000994	<0.000994 0.000994	<0.000994 0.000994	<0.000992 0.000992		
Toluene		<0.000994 0.000994	<0.000994 0.000994	<0.000994 0.000994	<0.000992 0.000992		
Ethylbenzene		<0.000994 0.000994	<0.000994 0.000994	<0.000994 0.000994	<0.000992 0.000992		
m,p-Xylenes		<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198		
o-Xylene		<0.000994 0.000994	<0.000994 0.000994	<0.000994 0.000994	<0.000992 0.000992		
Total Xylenes		<0.000994 0.000994	<0.000994 0.000994	<0.000994 0.000994	<0.000992 0.000992		
Total BTEX		<0.000994 0.000994	<0.000994 0.000994	<0.000994 0.000994	<0.000992 0.000992		
Chloride by EPA 300	<i>Extracted:</i>		03.04.2020 11:40				
	<i>Analyzed:</i>		03.04.2020 13:48				
	<i>Units/RL:</i>		mg/kg RL				
Chloride			<5.00 5.00				
TPH By SW8015 Mod	<i>Extracted:</i>	02.29.2020 10:00	02.29.2020 10:00	02.29.2020 10:00	02.29.2020 10:00		
	<i>Analyzed:</i>	03.01.2020 04:39	03.01.2020 05:00	03.01.2020 05:21	03.01.2020 05:42		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9	<50.0 50.0	<49.9 49.9	<50.0 50.0		
Diesel Range Organics (DRO)		<49.9 49.9	<50.0 50.0	<49.9 49.9	<50.0 50.0		
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<50.0 50.0	<49.9 49.9	<50.0 50.0		
Total TPH		<49.9 49.9	<50.0 50.0	<49.9 49.9	<50.0 50.0		

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Debbie Simmons
Project Manager



Analytical Report 654090

for

GHD Services, INC- Midland

Project Manager: Tom Larson

Enlink Falcon Spill

11205561-01

03.06.2020

Collected By: Client



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

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

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

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



03.06.2020

Project Manager: **Tom Larson**
GHD Services, INC- Midland
2135 S Loop 250 W
Midland, TX 79703

Reference: XENCO Report No(s): **654090**
Enlink Falcon Spill
Project Address:

Tom Larson:

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) 654090. 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. 654090 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 'Debbie Simmons'. The signature is written in a cursive, flowing style.

Debbie Simmons
Project Manager

A Small Business and Minority Company

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Sample Cross Reference 654090

GHD Services, INC- Midland, Midland, TX

Enlink Falcon Spill

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SL-1A	S	02.27.2020 10:55	5 ft	654090-001
SL-2A	S	02.27.2020 11:05	5 ft	654090-002
SL-3A	S	02.27.2020 11:20	4.5 ft	654090-003
SL-4A	S	02.27.2020 11:50	4.5 ft	654090-004
SL-5A	S	02.27.2020 11:55	4.5 ft	654090-005
SL-6A	S	02.27.2020 12:20	4.5 ft	654090-006
SL-7A	S	02.27.2020 12:30	5 ft	654090-007
SL-8A	S	02.27.2020 12:35	5 ft	654090-008
SL-10A	S	02.27.2020 12:40	5 ft	654090-009
SL-11A	S	02.27.2020 13:20	5 ft	654090-010
SL-12A	S	02.27.2020 11:35	4 ft	654090-011
SL-13A	S	02.27.2020 13:35	5.5 ft	654090-012
SL-14A	S	02.27.2020 13:55	5 ft	654090-013
SL-15A	S	02.27.2020 14:20	4.5 ft	654090-014
ES-11	S	02.27.2020 15:00	3.5 ft	654090-015
ES-7A	S	02.27.2020 14:30	3 ft	654090-016
SL-16	S	02.27.2020 15:30	7 ft	654090-017
SL-17	S	02.27.2020 16:00	7.5 ft	654090-018
SL-18	S	02.27.2020 16:45	8 ft	654090-019
HD-1	S	02.27.2020 10:45	0 - 6 In	654090-020
HD-2	S	02.27.2020 11:00	0 - 6 In	654090-021
HD-3	S	02.27.2020 11:15	0 - 6 In	654090-022
HD-4	S	02.27.2020 11:30	0 - 6 In	654090-023
HD-5	S	02.27.2020 11:45	0 - 6 In	654090-024
HD-6	S	02.27.2020 12:00	0 - 6 In	654090-025
HD-7	S	02.27.2020 12:15	0 - 6 In	654090-026
HD-8	S	02.27.2020 12:30	0 - 6 In	654090-027
HD-9	S	02.27.2020 12:45	0 - 6 In	654090-028
HD-10	S	02.27.2020 13:00	0 - 6 In	654090-029
HD-11	S	02.27.2020 13:15	0 - 6 In	654090-030
HD-12	S	02.27.2020 13:30	0 - 6 In	654090-031
HD-13	S	02.27.2020 13:45	0 - 6 In	654090-032
HD-14	S	02.27.2020 14:00	0 - 6 In	654090-033
HD-15	S	02.27.2020 14:15	0 - 6 In	654090-034

**CASE NARRATIVE****Client Name: GHD Services, INC- Midland****Project Name: Enlink Falcon Spill**Project ID: 11205561-01
Work Order Number(s): 654090Report Date: 03.06.2020
Date Received: 02.28.2020**Sample receipt non conformances and comments:**

03.02.20: per Tom Larson, run chlorides on the following 5 samples:

SL-5A @4.5 FT

SL-12A @4 FT

SL-15A @4.5 F

HD-2

HD-13

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3118615 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered below QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 654090-001 S.

Lab Sample ID 654090-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene Relative Percent Difference (RPD) between matrix spike and duplicate were above quality control limits.

Samples in the analytical batch are: 654090-001, -010, -011, -012, -013, -014, -015, -016, -017, -018, -019, -021, -022, -023, -024, -025, -026, -027, -028, -029

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Outlier/s are due to possible matrix interference.

Batch: LBA-3118632 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Surrogate 4-Bromofluorobenzene recovered above QC limits Data confirmed by re-analysis. Samples affected are: 7698138-1-BKS,7698138-1-BLK,7698138-1-BSD,654387-002 S,654387-002

SD,654090-006,654090-005,654090-002,654090-007,654090-009.

Surrogate a,a,a-Trifluorotoluene recovered above QC limits Data confirmed by re-analysis. Samples affected are: 7698138-1-BLK,654387-002 S,654387-002 SD,654090-002,654090-005,654090-

007,654090-009.

Batch: LBA-3118765 BTEX by EPA 8021B

Surrogate a,a,a-Trifluorotoluene recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 654090-004.

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



CASE NARRATIVE

Client Name: GHD Services, INC- Midland

Project Name: Enlink Falcon Spill

Project ID: 11205561-01
Work Order Number(s): 654090

Report Date: 03.06.2020
Date Received: 02.28.2020



Certificate of Analytical Results 654090

GHD Services, INC- Midland, Midland, TX

Enlink Falcon Spill

Sample Id: **SL-1A** Matrix: Soil Date Received: 02.28.2020 11:54
 Lab Sample Id: 654090-001 Date Collected: 02.27.2020 10:55 Sample Depth: 5 ft
 Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: ARM % Moisture:
 Analyst: ARM Date Prep: 02.29.2020 10:00 Basis: Wet Weight
 Seq Number: 3118189

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	02.29.2020 14:43	U	1
Diesel Range Organics (DRO)	C10C28DRO	425	49.9	mg/kg	02.29.2020 14:43		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	02.29.2020 14:43	U	1
Total TPH	PHCG35	425	49.9	mg/kg	02.29.2020 14:43		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	02.29.2020 14:43	
o-Terphenyl	84-15-1	108	%	70-135	02.29.2020 14:43	

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B
 Tech: MIT % Moisture:
 Analyst: MIT Date Prep: 03.04.2020 15:00 Basis: Wet Weight
 Seq Number: 3118615 SUB: T104704219-19-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00100	0.00100	mg/kg	03.04.2020 21:54	UF	1
Toluene	108-88-3	<0.00100	0.00100	mg/kg	03.04.2020 21:54	UF	1
Ethylbenzene	100-41-4	<0.00100	0.00100	mg/kg	03.04.2020 21:54	UF	1
m,p-Xylenes	179601-23-1	0.00551	0.00200	mg/kg	03.04.2020 21:54	F	1
o-Xylene	95-47-6	0.00170	0.00100	mg/kg	03.04.2020 21:54	F	1
Total Xylenes	1330-20-7	0.00721	0.00100	mg/kg	03.04.2020 21:54		1
Total BTEX		0.00721	0.00100	mg/kg	03.04.2020 21:54		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	117	%	68-120	03.04.2020 21:54	
a,a,a-Trifluorotoluene	98-08-8	111	%	71-121	03.04.2020 21:54	



Certificate of Analytical Results 654090

GHD Services, INC- Midland, Midland, TX

Enlink Falcon Spill

Sample Id: **SL-2A**
Lab Sample Id: 654090-002

Matrix: Soil
Date Collected: 02.27.2020 11:05

Date Received: 02.28.2020 11:54
Sample Depth: 5 ft

Analytical Method: TPH By SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3118189

Date Prep: 02.29.2020 10:00

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	02.29.2020 15:45	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	02.29.2020 15:45	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	02.29.2020 15:45	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	02.29.2020 15:45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-135	02.29.2020 15:45	
o-Terphenyl	84-15-1	103	%	70-135	02.29.2020 15:45	

Analytical Method: BTEX by EPA 8021B

Tech: MIT

Analyst: MIT

Seq Number: 3118632

Date Prep: 03.04.2020 14:30

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

SUB: T104704219-19-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00101	0.00101	mg/kg	03.05.2020 05:28	U	1
Toluene	108-88-3	<0.00101	0.00101	mg/kg	03.05.2020 05:28	U	1
Ethylbenzene	100-41-4	<0.00101	0.00101	mg/kg	03.05.2020 05:28	U	1
m,p-Xylenes	179601-23-1	<0.00202	0.00202	mg/kg	03.05.2020 05:28	U	1
o-Xylene	95-47-6	<0.00101	0.00101	mg/kg	03.05.2020 05:28	U	1
Total Xylenes	1330-20-7	<0.00101	0.00101	mg/kg	03.05.2020 05:28	U	1
Total BTEX		<0.00101	0.00101	mg/kg	03.05.2020 05:28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	123	%	68-120	03.05.2020 05:28	**
a,a,a-Trifluorotoluene	98-08-8	123	%	71-121	03.05.2020 05:28	**



Certificate of Analytical Results 654090

GHD Services, INC- Midland, Midland, TX

Enlink Falcon Spill

Sample Id: **SL-3A**
Lab Sample Id: 654090-003

Matrix: Soil
Date Collected: 02.27.2020 11:20

Date Received: 02.28.2020 11:54
Sample Depth: 4.5 ft

Analytical Method: TPH By SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3118189

Prep Method: SW8015P

% Moisture:

Date Prep: 02.29.2020 10:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.29.2020 16:06	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.29.2020 16:06	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.29.2020 16:06	U	1
Total TPH	PHCG35	<50.0	50.0	mg/kg	02.29.2020 16:06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	02.29.2020 16:06	
o-Terphenyl	84-15-1	103	%	70-135	02.29.2020 16:06	

Analytical Method: BTEX by EPA 8021B

Tech: MIT

Analyst: MIT

Seq Number: 3118632

Prep Method: SW5030B

% Moisture:

Date Prep: 03.04.2020 14:30

Basis: Wet Weight

SUB: T104704219-19-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00101	0.00101	mg/kg	03.05.2020 05:52	U	1
Toluene	108-88-3	<0.00101	0.00101	mg/kg	03.05.2020 05:52	U	1
Ethylbenzene	100-41-4	<0.00101	0.00101	mg/kg	03.05.2020 05:52	U	1
m,p-Xylenes	179601-23-1	<0.00202	0.00202	mg/kg	03.05.2020 05:52	U	1
o-Xylene	95-47-6	<0.00101	0.00101	mg/kg	03.05.2020 05:52	U	1
Total Xylenes	1330-20-7	<0.00101	0.00101	mg/kg	03.05.2020 05:52	U	1
Total BTEX		<0.00101	0.00101	mg/kg	03.05.2020 05:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	111	%	68-120	03.05.2020 05:52	
a,a,a-Trifluorotoluene	98-08-8	111	%	71-121	03.05.2020 05:52	



Certificate of Analytical Results 654090

GHD Services, INC- Midland, Midland, TX

Enlink Falcon Spill

Sample Id: **SL-4A** Matrix: Soil Date Received: 02.28.2020 11:54
 Lab Sample Id: 654090-004 Date Collected: 02.27.2020 11:50 Sample Depth: 4.5 ft
 Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: ARM % Moisture:
 Analyst: ARM Date Prep: 02.29.2020 10:00 Basis: Wet Weight
 Seq Number: 3118189

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	4890	250	mg/kg	03.01.2020 09:14		5
Diesel Range Organics (DRO)	C10C28DRO	8480	250	mg/kg	03.01.2020 09:14		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	860	250	mg/kg	03.01.2020 09:14		5
Total TPH	PHCG35	14200	250	mg/kg	03.01.2020 09:14		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-135	03.01.2020 09:14	
o-Terphenyl	84-15-1	100	%	70-135	03.01.2020 09:14	

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B
 Tech: MIT % Moisture:
 Analyst: MIT Date Prep: 03.05.2020 14:00 Basis: Wet Weight
 Seq Number: 3118765 SUB: T104704219-19-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.165	0.0201	mg/kg	03.05.2020 22:53		20
Toluene	108-88-3	2.08	0.0201	mg/kg	03.05.2020 22:53		20
Ethylbenzene	100-41-4	0.602	0.0201	mg/kg	03.05.2020 22:53		20
m,p-Xylenes	179601-23-1	5.63	0.0402	mg/kg	03.05.2020 22:53		20
o-Xylene	95-47-6	1.81	0.0201	mg/kg	03.05.2020 22:53		20
Total Xylenes	1330-20-7	7.44	0.0201	mg/kg	03.05.2020 22:53		20
Total BTEX		10.3	0.0201	mg/kg	03.05.2020 22:53		20

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	102	%	68-120	03.05.2020 22:53	
a,a,a-Trifluorotoluene	98-08-8	157	%	71-121	03.05.2020 22:53	**



Certificate of Analytical Results 654090

GHD Services, INC- Midland, Midland, TX

Enlink Falcon Spill

Sample Id: **SL-5A** Matrix: Soil Date Received: 02.28.2020 11:54
 Lab Sample Id: 654090-005 Date Collected: 02.27.2020 11:55 Sample Depth: 4.5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 03.04.2020 11:40 Basis: Wet Weight
 Seq Number: 3118568

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5.40	4.99	mg/kg	03.04.2020 13:17		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: ARM % Moisture:
 Analyst: ARM Date Prep: 02.29.2020 10:00 Basis: Wet Weight
 Seq Number: 3118189

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.29.2020 16:48	U	1
Diesel Range Organics (DRO)	C10C28DRO	128	50.0	mg/kg	02.29.2020 16:48		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	53.4	50.0	mg/kg	02.29.2020 16:48		1
Total TPH	PHC635	181	50.0	mg/kg	02.29.2020 16:48		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	02.29.2020 16:48	
o-Terphenyl	84-15-1	108	%	70-135	02.29.2020 16:48	



Certificate of Analytical Results 654090

GHD Services, INC- Midland, Midland, TX

Enlink Falcon Spill

Sample Id: **SL-5A**
 Lab Sample Id: 654090-005

Matrix: Soil
 Date Collected: 02.27.2020 11:55

Date Received: 02.28.2020 11:54
 Sample Depth: 4.5 ft

Analytical Method: BTEX by EPA 8021B

Tech: MIT

Analyst: MIT

Seq Number: 3118632

Prep Method: SW5030B

% Moisture:

Date Prep: 03.04.2020 14:30

Basis: Wet Weight

SUB: T104704219-19-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000994	0.000994	mg/kg	03.05.2020 06:41	U	1
Toluene	108-88-3	0.00358	0.000994	mg/kg	03.05.2020 06:41		1
Ethylbenzene	100-41-4	0.00835	0.000994	mg/kg	03.05.2020 06:41		1
m,p-Xylenes	179601-23-1	0.0333	0.00199	mg/kg	03.05.2020 06:41		1
o-Xylene	95-47-6	0.0101	0.000994	mg/kg	03.05.2020 06:41		1
Total Xylenes	1330-20-7	0.0434	0.000994	mg/kg	03.05.2020 06:41		1
Total BTEX		0.0553	0.000994	mg/kg	03.05.2020 06:41		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	151	%	68-120	03.05.2020 06:41	**
a,a,a-Trifluorotoluene	98-08-8	127	%	71-121	03.05.2020 06:41	**



Certificate of Analytical Results 654090

GHD Services, INC- Midland, Midland, TX

Enlink Falcon Spill

Sample Id: **SL-6A**
Lab Sample Id: 654090-006

Matrix: Soil
Date Collected: 02.27.2020 12:20

Date Received: 02.28.2020 11:54
Sample Depth: 4.5 ft

Analytical Method: TPH By SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3118189

Prep Method: SW8015P

% Moisture:

Date Prep: 02.29.2020 10:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	02.29.2020 17:09	U	1
Diesel Range Organics (DRO)	C10C28DRO	61.1	49.8	mg/kg	02.29.2020 17:09		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	02.29.2020 17:09	U	1
Total TPH	PHCG35	61.1	49.8	mg/kg	02.29.2020 17:09		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	02.29.2020 17:09	
o-Terphenyl	84-15-1	104	%	70-135	02.29.2020 17:09	

Analytical Method: BTEX by EPA 8021B

Tech: MIT

Analyst: MIT

Seq Number: 3118632

Prep Method: SW5030B

% Moisture:

Date Prep: 03.04.2020 14:30

Basis: Wet Weight

SUB: T104704219-19-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00101	0.00101	mg/kg	03.05.2020 07:05	U	1
Toluene	108-88-3	<0.00101	0.00101	mg/kg	03.05.2020 07:05	U	1
Ethylbenzene	100-41-4	<0.00101	0.00101	mg/kg	03.05.2020 07:05	U	1
m,p-Xylenes	179601-23-1	0.00604	0.00201	mg/kg	03.05.2020 07:05		1
o-Xylene	95-47-6	<0.00101	0.00101	mg/kg	03.05.2020 07:05	U	1
Total Xylenes	1330-20-7	0.00604	0.00101	mg/kg	03.05.2020 07:05		1
Total BTEX		0.00604	0.00101	mg/kg	03.05.2020 07:05		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	128	%	68-120	03.05.2020 07:05	**
a,a,a-Trifluorotoluene	98-08-8	121	%	71-121	03.05.2020 07:05	



Certificate of Analytical Results 654090

GHD Services, INC- Midland, Midland, TX

Enlink Falcon Spill

Sample Id: **SL-7A** Matrix: **Soil** Date Received: 02.28.2020 11:54
 Lab Sample Id: 654090-007 Date Collected: 02.27.2020 12:30 Sample Depth: 5 ft
 Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: **ARM** % Moisture:
 Analyst: **ARM** Date Prep: 02.29.2020 10:00 Basis: **Wet Weight**
 Seq Number: 3118189

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	65.0	49.9	mg/kg	02.29.2020 17:30		1
Diesel Range Organics (DRO)	C10C28DRO	662	49.9	mg/kg	02.29.2020 17:30		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	71.5	49.9	mg/kg	02.29.2020 17:30		1
Total TPH	PHCG35	799	49.9	mg/kg	02.29.2020 17:30		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	02.29.2020 17:30	
o-Terphenyl	84-15-1	113	%	70-135	02.29.2020 17:30	

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B
 Tech: **MIT** % Moisture:
 Analyst: **MIT** Date Prep: 03.04.2020 14:30 Basis: **Wet Weight**
 Seq Number: 3118632 SUB: T104704219-19-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000996	0.000996	mg/kg	03.05.2020 07:30	U	1
Toluene	108-88-3	<0.000996	0.000996	mg/kg	03.05.2020 07:30	U	1
Ethylbenzene	100-41-4	0.000996	0.000996	mg/kg	03.05.2020 07:30		1
m,p-Xylenes	179601-23-1	0.00279	0.00199	mg/kg	03.05.2020 07:30		1
o-Xylene	95-47-6	0.00199	0.000996	mg/kg	03.05.2020 07:30		1
Total Xylenes	1330-20-7	0.00478	0.000996	mg/kg	03.05.2020 07:30		1
Total BTEX		0.00578	0.000996	mg/kg	03.05.2020 07:30		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	131	%	68-120	03.05.2020 07:30	**
a,a,a-Trifluorotoluene	98-08-8	123	%	71-121	03.05.2020 07:30	**



Certificate of Analytical Results 654090

GHD Services, INC- Midland, Midland, TX

Enlink Falcon Spill

Sample Id: **SL-8A**
Lab Sample Id: 654090-008

Matrix: Soil
Date Collected: 02.27.2020 12:35

Date Received: 02.28.2020 11:54
Sample Depth: 5 ft

Analytical Method: TPH By SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3118189

Prep Method: SW8015P

% Moisture:

Date Prep: 02.29.2020 10:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	02.29.2020 17:51	U	1
Diesel Range Organics (DRO)	C10C28DRO	115	49.9	mg/kg	02.29.2020 17:51		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	02.29.2020 17:51	U	1
Total TPH	PHCG35	115	49.9	mg/kg	02.29.2020 17:51		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	02.29.2020 17:51	
o-Terphenyl	84-15-1	103	%	70-135	02.29.2020 17:51	

Analytical Method: BTEX by EPA 8021B

Tech: MIT

Analyst: MIT

Seq Number: 3118632

Prep Method: SW5030B

% Moisture:

Date Prep: 03.04.2020 14:30

Basis: Wet Weight

SUB: T104704219-19-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000990	0.000990	mg/kg	03.05.2020 07:54	U	1
Toluene	108-88-3	<0.000990	0.000990	mg/kg	03.05.2020 07:54	U	1
Ethylbenzene	100-41-4	<0.000990	0.000990	mg/kg	03.05.2020 07:54	U	1
m,p-Xylenes	179601-23-1	0.00198	0.00198	mg/kg	03.05.2020 07:54		1
o-Xylene	95-47-6	<0.000990	0.000990	mg/kg	03.05.2020 07:54	U	1
Total Xylenes	1330-20-7	0.00198	0.000990	mg/kg	03.05.2020 07:54		1
Total BTEX		0.00198	0.000990	mg/kg	03.05.2020 07:54		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	101	%	68-120	03.05.2020 07:54	
a,a,a-Trifluorotoluene	98-08-8	97	%	71-121	03.05.2020 07:54	



Certificate of Analytical Results 654090

GHD Services, INC- Midland, Midland, TX

Enlink Falcon Spill

Sample Id: **SL-10A**
Lab Sample Id: 654090-009

Matrix: Soil
Date Collected: 02.27.2020 12:40

Date Received: 02.28.2020 11:54
Sample Depth: 5 ft

Analytical Method: TPH By SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3118189

Date Prep: 02.29.2020 10:00

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.29.2020 18:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.29.2020 18:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.29.2020 18:12	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.29.2020 18:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	02.29.2020 18:12	
o-Terphenyl	84-15-1	104	%	70-135	02.29.2020 18:12	

Analytical Method: BTEX by EPA 8021B

Tech: MIT

Analyst: MIT

Seq Number: 3118632

Date Prep: 03.04.2020 14:30

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

SUB: T104704219-19-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000990	0.000990	mg/kg	03.05.2020 08:18	U	1
Toluene	108-88-3	<0.000990	0.000990	mg/kg	03.05.2020 08:18	U	1
Ethylbenzene	100-41-4	<0.000990	0.000990	mg/kg	03.05.2020 08:18	U	1
m,p-Xylenes	179601-23-1	<0.00198	0.00198	mg/kg	03.05.2020 08:18	U	1
o-Xylene	95-47-6	<0.000990	0.000990	mg/kg	03.05.2020 08:18	U	1
Total Xylenes	1330-20-7	<0.000990	0.000990	mg/kg	03.05.2020 08:18	U	1
Total BTEX		<0.000990	0.000990	mg/kg	03.05.2020 08:18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	126	%	68-120	03.05.2020 08:18	**
a,a,a-Trifluorotoluene	98-08-8	125	%	71-121	03.05.2020 08:18	**



Certificate of Analytical Results 654090

GHD Services, INC- Midland, Midland, TX

Enlink Falcon Spill

Sample Id: **SL-11A**
Lab Sample Id: 654090-010

Matrix: Soil
Date Collected: 02.27.2020 13:20

Date Received: 02.28.2020 11:54
Sample Depth: 5 ft

Analytical Method: TPH By SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3118189

Prep Method: SW8015P

% Moisture:

Date Prep: 02.29.2020 10:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.29.2020 18:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	94.6	50.0	mg/kg	02.29.2020 18:33		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.29.2020 18:33	U	1
Total TPH	PHCG35	94.6	50.0	mg/kg	02.29.2020 18:33		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-135	02.29.2020 18:33	
o-Terphenyl	84-15-1	103	%	70-135	02.29.2020 18:33	

Analytical Method: BTEX by EPA 8021B

Tech: MIT

Analyst: MIT

Seq Number: 3118615

Prep Method: SW5030B

% Moisture:

Date Prep: 03.04.2020 15:00

Basis: Wet Weight

SUB: T104704219-19-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00100	0.00100	mg/kg	03.04.2020 23:41	U	1
Toluene	108-88-3	<0.00100	0.00100	mg/kg	03.04.2020 23:41	U	1
Ethylbenzene	100-41-4	<0.00100	0.00100	mg/kg	03.04.2020 23:41	U	1
m,p-Xylenes	179601-23-1	<0.00201	0.00201	mg/kg	03.04.2020 23:41	U	1
o-Xylene	95-47-6	<0.00100	0.00100	mg/kg	03.04.2020 23:41	U	1
Total Xylenes	1330-20-7	<0.00100	0.00100	mg/kg	03.04.2020 23:41	U	1
Total BTEX		<0.00100	0.00100	mg/kg	03.04.2020 23:41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	113	%	68-120	03.04.2020 23:41	
a,a,a-Trifluorotoluene	98-08-8	109	%	71-121	03.04.2020 23:41	



Certificate of Analytical Results 654090

GHD Services, INC- Midland, Midland, TX

Enlink Falcon Spill

Sample Id: **SL-12A** Matrix: Soil Date Received: 02.28.2020 11:54
 Lab Sample Id: 654090-011 Date Collected: 02.27.2020 11:35 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 03.04.2020 11:40 Basis: Wet Weight
 Seq Number: 3118568

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.95	4.95	mg/kg	03.04.2020 13:22	U	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: ARM % Moisture:
 Analyst: ARM Date Prep: 02.29.2020 10:00 Basis: Wet Weight
 Seq Number: 3118189

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	02.29.2020 19:15	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	02.29.2020 19:15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	02.29.2020 19:15	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	02.29.2020 19:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	02.29.2020 19:15	
o-Terphenyl	84-15-1	103	%	70-135	02.29.2020 19:15	



Certificate of Analytical Results 654090

GHD Services, INC- Midland, Midland, TX

Enlink Falcon Spill

Sample Id: **SL-12A**
 Lab Sample Id: 654090-011

Matrix: Soil
 Date Collected: 02.27.2020 11:35

Date Received: 02.28.2020 11:54
 Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Tech: MIT

Analyst: MIT

Seq Number: 3118615

Prep Method: SW5030B

% Moisture:

Date Prep: 03.04.2020 15:00

Basis: Wet Weight

SUB: T104704219-19-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000994	0.000994	mg/kg	03.05.2020 00:08	U	1
Toluene	108-88-3	<0.000994	0.000994	mg/kg	03.05.2020 00:08	U	1
Ethylbenzene	100-41-4	<0.000994	0.000994	mg/kg	03.05.2020 00:08	U	1
m,p-Xylenes	179601-23-1	<0.00199	0.00199	mg/kg	03.05.2020 00:08	U	1
o-Xylene	95-47-6	<0.000994	0.000994	mg/kg	03.05.2020 00:08	U	1
Total Xylenes	1330-20-7	<0.000994	0.000994	mg/kg	03.05.2020 00:08	U	1
Total BTEX		<0.000994	0.000994	mg/kg	03.05.2020 00:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	111	%	68-120	03.05.2020 00:08	
a,a,a-Trifluorotoluene	98-08-8	110	%	71-121	03.05.2020 00:08	



Certificate of Analytical Results 654090

GHD Services, INC- Midland, Midland, TX

Enlink Falcon Spill

Sample Id: **SL-13A**
 Lab Sample Id: 654090-012

Matrix: Soil
 Date Collected: 02.27.2020 13:35

Date Received: 02.28.2020 11:54
 Sample Depth: 5.5 ft

Analytical Method: TPH By SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3118189

Prep Method: SW8015P

% Moisture:

Date Prep: 02.29.2020 10:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.29.2020 19:36	U	1
Diesel Range Organics (DRO)	C10C28DRO	85.9	50.0	mg/kg	02.29.2020 19:36		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.29.2020 19:36	U	1
Total TPH	PHCG35	85.9	50.0	mg/kg	02.29.2020 19:36		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-135	02.29.2020 19:36	
o-Terphenyl	84-15-1	106	%	70-135	02.29.2020 19:36	

Analytical Method: BTEX by EPA 8021B

Tech: MIT

Analyst: MIT

Seq Number: 3118615

Prep Method: SW5030B

% Moisture:

Date Prep: 03.04.2020 15:00

Basis: Wet Weight

SUB: T104704219-19-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000990	0.000990	mg/kg	03.05.2020 00:35	U	1
Toluene	108-88-3	<0.000990	0.000990	mg/kg	03.05.2020 00:35	U	1
Ethylbenzene	100-41-4	<0.000990	0.000990	mg/kg	03.05.2020 00:35	U	1
m,p-Xylenes	179601-23-1	<0.00198	0.00198	mg/kg	03.05.2020 00:35	U	1
o-Xylene	95-47-6	<0.000990	0.000990	mg/kg	03.05.2020 00:35	U	1
Total Xylenes	1330-20-7	<0.000990	0.000990	mg/kg	03.05.2020 00:35	U	1
Total BTEX		<0.000990	0.000990	mg/kg	03.05.2020 00:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	111	%	68-120	03.05.2020 00:35	
a,a,a-Trifluorotoluene	98-08-8	107	%	71-121	03.05.2020 00:35	



Certificate of Analytical Results 654090

GHD Services, INC- Midland, Midland, TX

Enlink Falcon Spill

Sample Id: **SL-14A**
 Lab Sample Id: 654090-013

Matrix: Soil
 Date Collected: 02.27.2020 13:55

Date Received: 02.28.2020 11:54
 Sample Depth: 5 ft

Analytical Method: TPH By SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3118189

Prep Method: SW8015P

% Moisture:

Date Prep: 02.29.2020 10:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.29.2020 19:56	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.29.2020 19:56	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.29.2020 19:56	U	1
Total TPH	PHCG35	<50.0	50.0	mg/kg	02.29.2020 19:56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	02.29.2020 19:56	
o-Terphenyl	84-15-1	103	%	70-135	02.29.2020 19:56	

Analytical Method: BTEX by EPA 8021B

Tech: MIT

Analyst: MIT

Seq Number: 3118615

Prep Method: SW5030B

% Moisture:

Date Prep: 03.04.2020 15:00

Basis: Wet Weight

SUB: T104704219-19-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000994	0.000994	mg/kg	03.05.2020 01:02	U	1
Toluene	108-88-3	<0.000994	0.000994	mg/kg	03.05.2020 01:02	U	1
Ethylbenzene	100-41-4	<0.000994	0.000994	mg/kg	03.05.2020 01:02	U	1
m,p-Xylenes	179601-23-1	<0.00199	0.00199	mg/kg	03.05.2020 01:02	U	1
o-Xylene	95-47-6	<0.000994	0.000994	mg/kg	03.05.2020 01:02	U	1
Total Xylenes	1330-20-7	<0.000994	0.000994	mg/kg	03.05.2020 01:02	U	1
Total BTEX		<0.000994	0.000994	mg/kg	03.05.2020 01:02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	111	%	68-120	03.05.2020 01:02	
a,a,a-Trifluorotoluene	98-08-8	107	%	71-121	03.05.2020 01:02	



Certificate of Analytical Results 654090

GHD Services, INC- Midland, Midland, TX

Enlink Falcon Spill

Sample Id: **SL-15A** Matrix: Soil Date Received: 02.28.2020 11:54
 Lab Sample Id: 654090-014 Date Collected: 02.27.2020 14:20 Sample Depth: 4.5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 03.04.2020 11:40 Basis: Wet Weight
 Seq Number: 3118568

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.97	4.97	mg/kg	03.04.2020 13:27	U	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: ARM % Moisture:
 Analyst: ARM Date Prep: 02.29.2020 10:00 Basis: Wet Weight
 Seq Number: 3118189

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	02.29.2020 20:17	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	02.29.2020 20:17	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	02.29.2020 20:17	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	02.29.2020 20:17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	02.29.2020 20:17	
o-Terphenyl	84-15-1	102	%	70-135	02.29.2020 20:17	



Certificate of Analytical Results 654090

GHD Services, INC- Midland, Midland, TX

Enlink Falcon Spill

Sample Id: **SL-15A**
 Lab Sample Id: 654090-014

Matrix: Soil
 Date Collected: 02.27.2020 14:20

Date Received: 02.28.2020 11:54
 Sample Depth: 4.5 ft

Analytical Method: BTEX by EPA 8021B

Tech: MIT

Analyst: MIT

Seq Number: 3118615

Prep Method: SW5030B

% Moisture:

Date Prep: 03.04.2020 15:00

Basis: Wet Weight

SUB: T104704219-19-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00100	0.00100	mg/kg	03.05.2020 01:29	U	1
Toluene	108-88-3	<0.00100	0.00100	mg/kg	03.05.2020 01:29	U	1
Ethylbenzene	100-41-4	<0.00100	0.00100	mg/kg	03.05.2020 01:29	U	1
m,p-Xylenes	179601-23-1	<0.00200	0.00200	mg/kg	03.05.2020 01:29	U	1
o-Xylene	95-47-6	<0.00100	0.00100	mg/kg	03.05.2020 01:29	U	1
Total Xylenes	1330-20-7	<0.00100	0.00100	mg/kg	03.05.2020 01:29	U	1
Total BTEX		<0.00100	0.00100	mg/kg	03.05.2020 01:29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	112	%	68-120	03.05.2020 01:29	
a,a,a-Trifluorotoluene	98-08-8	107	%	71-121	03.05.2020 01:29	



Certificate of Analytical Results 654090

GHD Services, INC- Midland, Midland, TX

Enlink Falcon Spill

Sample Id: ES-11
Lab Sample Id: 654090-015

Matrix: Soil
Date Collected: 02.27.2020 15:00

Date Received: 02.28.2020 11:54
Sample Depth: 3.5 ft

Analytical Method: TPH By SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3118189

Prep Method: SW8015P

% Moisture:

Date Prep: 02.29.2020 10:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	02.29.2020 20:38	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	02.29.2020 20:38	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	02.29.2020 20:38	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	02.29.2020 20:38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-135	02.29.2020 20:38	
o-Terphenyl	84-15-1	105	%	70-135	02.29.2020 20:38	

Analytical Method: BTEX by EPA 8021B

Tech: MIT

Analyst: MIT

Seq Number: 3118615

Prep Method: SW5030B

% Moisture:

Date Prep: 03.04.2020 15:00

Basis: Wet Weight

SUB: T104704219-19-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000992	0.000992	mg/kg	03.05.2020 01:56	U	1
Toluene	108-88-3	<0.000992	0.000992	mg/kg	03.05.2020 01:56	U	1
Ethylbenzene	100-41-4	<0.000992	0.000992	mg/kg	03.05.2020 01:56	U	1
m,p-Xylenes	179601-23-1	<0.00198	0.00198	mg/kg	03.05.2020 01:56	U	1
o-Xylene	95-47-6	<0.000992	0.000992	mg/kg	03.05.2020 01:56	U	1
Total Xylenes	1330-20-7	<0.000992	0.000992	mg/kg	03.05.2020 01:56	U	1
Total BTEX		<0.000992	0.000992	mg/kg	03.05.2020 01:56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	112	%	68-120	03.05.2020 01:56	
a,a,a-Trifluorotoluene	98-08-8	107	%	71-121	03.05.2020 01:56	



Certificate of Analytical Results 654090

GHD Services, INC- Midland, Midland, TX

Enlink Falcon Spill

Sample Id: ES-7A
Lab Sample Id: 654090-016

Matrix: Soil
Date Collected: 02.27.2020 14:30

Date Received: 02.28.2020 11:54
Sample Depth: 3 ft

Analytical Method: TPH By SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3118189

Prep Method: SW8015P

% Moisture:

Date Prep: 02.29.2020 10:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	02.29.2020 20:59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	02.29.2020 20:59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	02.29.2020 20:59	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	02.29.2020 20:59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	02.29.2020 20:59	
o-Terphenyl	84-15-1	106	%	70-135	02.29.2020 20:59	

Analytical Method: BTEX by EPA 8021B

Tech: MIT

Analyst: MIT

Seq Number: 3118615

Prep Method: SW5030B

% Moisture:

Date Prep: 03.04.2020 15:00

Basis: Wet Weight

SUB: T104704219-19-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00100	0.00100	mg/kg	03.05.2020 02:23	U	1
Toluene	108-88-3	<0.00100	0.00100	mg/kg	03.05.2020 02:23	U	1
Ethylbenzene	100-41-4	<0.00100	0.00100	mg/kg	03.05.2020 02:23	U	1
m,p-Xylenes	179601-23-1	<0.00201	0.00201	mg/kg	03.05.2020 02:23	U	1
o-Xylene	95-47-6	<0.00100	0.00100	mg/kg	03.05.2020 02:23	U	1
Total Xylenes	1330-20-7	<0.00100	0.00100	mg/kg	03.05.2020 02:23	U	1
Total BTEX		<0.00100	0.00100	mg/kg	03.05.2020 02:23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	111	%	68-120	03.05.2020 02:23	
a,a,a-Trifluorotoluene	98-08-8	111	%	71-121	03.05.2020 02:23	



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GHD Services, INC- Midland, Midland, TX

Enlink Falcon Spill

Sample Id: **SL-16** Matrix: Soil Date Received: 02.28.2020 11:54
 Lab Sample Id: 654090-017 Date Collected: 02.27.2020 15:30 Sample Depth: 7 ft
 Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: ARM % Moisture:
 Analyst: ARM Date Prep: 02.29.2020 10:00 Basis: Wet Weight
 Seq Number: 3118189

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	169	50.0	mg/kg	02.29.2020 21:20		1
Diesel Range Organics (DRO)	C10C28DRO	701	50.0	mg/kg	02.29.2020 21:20		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	56.9	50.0	mg/kg	02.29.2020 21:20		1
Total TPH	PHCG35	927	50.0	mg/kg	02.29.2020 21:20		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	02.29.2020 21:20	
o-Terphenyl	84-15-1	102	%	70-135	02.29.2020 21:20	

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B
 Tech: MIT % Moisture:
 Analyst: MIT Date Prep: 03.04.2020 15:00 Basis: Wet Weight
 Seq Number: 3118615 SUB: T104704219-19-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00100	0.00100	mg/kg	03.05.2020 02:50	U	1
Toluene	108-88-3	<0.00100	0.00100	mg/kg	03.05.2020 02:50	U	1
Ethylbenzene	100-41-4	<0.00100	0.00100	mg/kg	03.05.2020 02:50	U	1
m,p-Xylenes	179601-23-1	0.0507	0.00201	mg/kg	03.05.2020 02:50		1
o-Xylene	95-47-6	0.0190	0.00100	mg/kg	03.05.2020 02:50		1
Total Xylenes	1330-20-7	0.0697	0.00100	mg/kg	03.05.2020 02:50		1
Total BTEX		0.0697	0.00100	mg/kg	03.05.2020 02:50		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	131	%	68-120	03.05.2020 02:50	**
a,a,a-Trifluorotoluene	98-08-8	108	%	71-121	03.05.2020 02:50	



Certificate of Analytical Results 654090

GHD Services, INC- Midland, Midland, TX

Enlink Falcon Spill

Sample Id: **SL-17**
Lab Sample Id: 654090-018

Matrix: Soil
Date Collected: 02.27.2020 16:00

Date Received: 02.28.2020 11:54
Sample Depth: 7.5 ft

Analytical Method: TPH By SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3118189

Prep Method: SW8015P

% Moisture:

Date Prep: 02.29.2020 10:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.29.2020 21:41	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.29.2020 21:41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.29.2020 21:41	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.29.2020 21:41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	02.29.2020 21:41	
o-Terphenyl	84-15-1	97	%	70-135	02.29.2020 21:41	

Analytical Method: BTEX by EPA 8021B

Tech: MIT

Analyst: MIT

Seq Number: 3118615

Prep Method: SW5030B

% Moisture:

Date Prep: 03.04.2020 15:00

Basis: Wet Weight

SUB: T104704219-19-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000994	0.000994	mg/kg	03.05.2020 03:17	U	1
Toluene	108-88-3	<0.000994	0.000994	mg/kg	03.05.2020 03:17	U	1
Ethylbenzene	100-41-4	<0.000994	0.000994	mg/kg	03.05.2020 03:17	U	1
m,p-Xylenes	179601-23-1	<0.00199	0.00199	mg/kg	03.05.2020 03:17	U	1
o-Xylene	95-47-6	<0.000994	0.000994	mg/kg	03.05.2020 03:17	U	1
Total Xylenes	1330-20-7	<0.000994	0.000994	mg/kg	03.05.2020 03:17	U	1
Total BTEX		<0.000994	0.000994	mg/kg	03.05.2020 03:17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	110	%	68-120	03.05.2020 03:17	
a,a,a-Trifluorotoluene	98-08-8	108	%	71-121	03.05.2020 03:17	



Certificate of Analytical Results 654090

GHD Services, INC- Midland, Midland, TX

Enlink Falcon Spill

Sample Id: **SL-18**
Lab Sample Id: 654090-019

Matrix: Soil
Date Collected: 02.27.2020 16:45

Date Received: 02.28.2020 11:54
Sample Depth: 8 ft

Analytical Method: TPH By SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3118189

Date Prep: 02.29.2020 10:00

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	02.29.2020 22:02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	02.29.2020 22:02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	02.29.2020 22:02	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	02.29.2020 22:02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	02.29.2020 22:02	
o-Terphenyl	84-15-1	104	%	70-135	02.29.2020 22:02	

Analytical Method: BTEX by EPA 8021B

Tech: MIT

Analyst: MIT

Seq Number: 3118615

Date Prep: 03.04.2020 15:00

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

SUB: T104704219-19-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00100	0.00100	mg/kg	03.05.2020 05:04	U	1
Toluene	108-88-3	<0.00100	0.00100	mg/kg	03.05.2020 05:04	U	1
Ethylbenzene	100-41-4	<0.00100	0.00100	mg/kg	03.05.2020 05:04	U	1
m,p-Xylenes	179601-23-1	<0.00201	0.00201	mg/kg	03.05.2020 05:04	U	1
o-Xylene	95-47-6	0.00110	0.00100	mg/kg	03.05.2020 05:04		1
Total Xylenes	1330-20-7	0.00110	0.00100	mg/kg	03.05.2020 05:04		1
Total BTEX		0.00110	0.00100	mg/kg	03.05.2020 05:04		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	111	%	68-120	03.05.2020 05:04	
a,a,a-Trifluorotoluene	98-08-8	112	%	71-121	03.05.2020 05:04	



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GHD Services, INC- Midland, Midland, TX

Enlink Falcon Spill

Sample Id: **HD-1** Matrix: Soil Date Received: 02.28.2020 11:54
 Lab Sample Id: 654090-020 Date Collected: 02.27.2020 10:45 Sample Depth: 0 - 6 In
 Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: ARM % Moisture:
 Analyst: ARM Date Prep: 02.29.2020 10:00 Basis: Wet Weight
 Seq Number: 3118189

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	02.29.2020 22:23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	02.29.2020 22:23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	02.29.2020 22:23	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	02.29.2020 22:23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-135	02.29.2020 22:23	
o-Terphenyl	84-15-1	101	%	70-135	02.29.2020 22:23	

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B
 Tech: MIT % Moisture:
 Analyst: MIT Date Prep: 03.05.2020 14:00 Basis: Wet Weight
 Seq Number: 3118765 SUB: T104704219-19-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000996	0.000996	mg/kg	03.05.2020 18:54	U	1
Toluene	108-88-3	<0.000996	0.000996	mg/kg	03.05.2020 18:54	U	1
Ethylbenzene	100-41-4	<0.000996	0.000996	mg/kg	03.05.2020 18:54	U	1
m,p-Xylenes	179601-23-1	<0.00199	0.00199	mg/kg	03.05.2020 18:54	U	1
o-Xylene	95-47-6	<0.000996	0.000996	mg/kg	03.05.2020 18:54	U	1
Total Xylenes	1330-20-7	<0.000996	0.000996	mg/kg	03.05.2020 18:54	U	1
Total BTEX		<0.000996	0.000996	mg/kg	03.05.2020 18:54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	118	%	68-120	03.05.2020 18:54	
a,a,a-Trifluorotoluene	98-08-8	110	%	71-121	03.05.2020 18:54	



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GHD Services, INC- Midland, Midland, TX

Enlink Falcon Spill

Sample Id: **HD-2** Matrix: Soil Date Received: 02.28.2020 11:54
 Lab Sample Id: 654090-021 Date Collected: 02.27.2020 11:00 Sample Depth: 0 - 6 In
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 03.04.2020 11:40 Basis: Wet Weight
 Seq Number: 3118568

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.02	5.02	mg/kg	03.04.2020 13:32	U	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: ARM % Moisture:
 Analyst: ARM Date Prep: 02.29.2020 10:00 Basis: Wet Weight
 Seq Number: 3118190

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	03.01.2020 00:07	U	1
Diesel Range Organics (DRO)	C10C28DRO	109	49.9	mg/kg	03.01.2020 00:07		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	03.01.2020 00:07	U	1
Total TPH	PHC635	109	49.9	mg/kg	03.01.2020 00:07		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	03.01.2020 00:07	
o-Terphenyl	84-15-1	101	%	70-135	03.01.2020 00:07	



Certificate of Analytical Results 654090

GHD Services, INC- Midland, Midland, TX

Enlink Falcon Spill

Sample Id: **HD-2**
 Lab Sample Id: 654090-021

Matrix: Soil
 Date Collected: 02.27.2020 11:00

Date Received: 02.28.2020 11:54
 Sample Depth: 0 - 6 In

Analytical Method: BTEX by EPA 8021B

Tech: MIT

Analyst: MIT

Seq Number: 3118615

Prep Method: SW5030B

% Moisture:

Date Prep: 03.04.2020 15:00

Basis: Wet Weight

SUB: T104704219-19-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000990	0.000990	mg/kg	03.05.2020 05:31	U	1
Toluene	108-88-3	<0.000990	0.000990	mg/kg	03.05.2020 05:31	U	1
Ethylbenzene	100-41-4	<0.000990	0.000990	mg/kg	03.05.2020 05:31	U	1
m,p-Xylenes	179601-23-1	<0.00198	0.00198	mg/kg	03.05.2020 05:31	U	1
o-Xylene	95-47-6	<0.000990	0.000990	mg/kg	03.05.2020 05:31	U	1
Total Xylenes	1330-20-7	<0.000990	0.000990	mg/kg	03.05.2020 05:31	U	1
Total BTEX		<0.000990	0.000990	mg/kg	03.05.2020 05:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	110	%	68-120	03.05.2020 05:31	
a,a,a-Trifluorotoluene	98-08-8	110	%	71-121	03.05.2020 05:31	



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GHD Services, INC- Midland, Midland, TX

Enlink Falcon Spill

Sample Id: **HD-3**
Lab Sample Id: 654090-022

Matrix: Soil
Date Collected: 02.27.2020 11:15

Date Received: 02.28.2020 11:54
Sample Depth: 0 - 6 In

Analytical Method: TPH By SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3118190

Prep Method: SW8015P

% Moisture:

Date Prep: 02.29.2020 10:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	03.01.2020 01:10	U	1
Diesel Range Organics (DRO)	C10C28DRO	74.8	49.8	mg/kg	03.01.2020 01:10		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	03.01.2020 01:10	U	1
Total TPH	PHCG35	74.8	49.8	mg/kg	03.01.2020 01:10		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	03.01.2020 01:10	
o-Terphenyl	84-15-1	101	%	70-135	03.01.2020 01:10	

Analytical Method: BTEX by EPA 8021B

Tech: MIT

Analyst: MIT

Seq Number: 3118615

Prep Method: SW5030B

% Moisture:

Date Prep: 03.04.2020 15:00

Basis: Wet Weight

SUB: T104704219-19-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00100	0.00100	mg/kg	03.05.2020 05:58	U	1
Toluene	108-88-3	<0.00100	0.00100	mg/kg	03.05.2020 05:58	U	1
Ethylbenzene	100-41-4	<0.00100	0.00100	mg/kg	03.05.2020 05:58	U	1
m,p-Xylenes	179601-23-1	<0.00200	0.00200	mg/kg	03.05.2020 05:58	U	1
o-Xylene	95-47-6	<0.00100	0.00100	mg/kg	03.05.2020 05:58	U	1
Total Xylenes	1330-20-7	<0.00100	0.00100	mg/kg	03.05.2020 05:58	U	1
Total BTEX		<0.00100	0.00100	mg/kg	03.05.2020 05:58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	110	%	68-120	03.05.2020 05:58	
a,a,a-Trifluorotoluene	98-08-8	109	%	71-121	03.05.2020 05:58	



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GHD Services, INC- Midland, Midland, TX

Enlink Falcon Spill

Sample Id: **HD-4**
Lab Sample Id: 654090-023

Matrix: Soil
Date Collected: 02.27.2020 11:30

Date Received: 02.28.2020 11:54
Sample Depth: 0 - 6 In

Analytical Method: TPH By SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3118190

Date Prep: 02.29.2020 10:00

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.01.2020 01:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	82.1	50.0	mg/kg	03.01.2020 01:31		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.01.2020 01:31	U	1
Total TPH	PHCG35	82.1	50.0	mg/kg	03.01.2020 01:31		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-135	03.01.2020 01:31	
o-Terphenyl	84-15-1	106	%	70-135	03.01.2020 01:31	

Analytical Method: BTEX by EPA 8021B

Tech: MIT

Analyst: MIT

Seq Number: 3118615

Date Prep: 03.04.2020 15:00

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

SUB: T104704219-19-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00101	0.00101	mg/kg	03.05.2020 06:25	U	1
Toluene	108-88-3	<0.00101	0.00101	mg/kg	03.05.2020 06:25	U	1
Ethylbenzene	100-41-4	<0.00101	0.00101	mg/kg	03.05.2020 06:25	U	1
m,p-Xylenes	179601-23-1	<0.00202	0.00202	mg/kg	03.05.2020 06:25	U	1
o-Xylene	95-47-6	<0.00101	0.00101	mg/kg	03.05.2020 06:25	U	1
Total Xylenes	1330-20-7	<0.00101	0.00101	mg/kg	03.05.2020 06:25	U	1
Total BTEX		<0.00101	0.00101	mg/kg	03.05.2020 06:25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	110	%	68-120	03.05.2020 06:25	
a,a,a-Trifluorotoluene	98-08-8	107	%	71-121	03.05.2020 06:25	



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GHD Services, INC- Midland, Midland, TX

Enlink Falcon Spill

Sample Id: **HD-5**
Lab Sample Id: 654090-024

Matrix: Soil
Date Collected: 02.27.2020 11:45

Date Received: 02.28.2020 11:54
Sample Depth: 0 - 6 In

Analytical Method: TPH By SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3118190

Date Prep: 02.29.2020 10:00

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.01.2020 01:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	80.1	50.0	mg/kg	03.01.2020 01:52		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.01.2020 01:52	U	1
Total TPH	PHCG35	80.1	50.0	mg/kg	03.01.2020 01:52		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	03.01.2020 01:52	
o-Terphenyl	84-15-1	105	%	70-135	03.01.2020 01:52	

Analytical Method: BTEX by EPA 8021B

Tech: MIT

Analyst: MIT

Seq Number: 3118615

Date Prep: 03.04.2020 15:00

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

SUB: T104704219-19-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000998	0.000998	mg/kg	03.05.2020 06:52	U	1
Toluene	108-88-3	<0.000998	0.000998	mg/kg	03.05.2020 06:52	U	1
Ethylbenzene	100-41-4	<0.000998	0.000998	mg/kg	03.05.2020 06:52	U	1
m,p-Xylenes	179601-23-1	<0.00200	0.00200	mg/kg	03.05.2020 06:52	U	1
o-Xylene	95-47-6	<0.000998	0.000998	mg/kg	03.05.2020 06:52	U	1
Total Xylenes	1330-20-7	<0.000998	0.000998	mg/kg	03.05.2020 06:52	U	1
Total BTEX		<0.000998	0.000998	mg/kg	03.05.2020 06:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	111	%	68-120	03.05.2020 06:52	
a,a,a-Trifluorotoluene	98-08-8	108	%	71-121	03.05.2020 06:52	



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GHD Services, INC- Midland, Midland, TX

Enlink Falcon Spill

Sample Id: **HD-6**
Lab Sample Id: 654090-025

Matrix: Soil
Date Collected: 02.27.2020 12:00

Date Received: 02.28.2020 11:54
Sample Depth: 0 - 6 In

Analytical Method: TPH By SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3118190

Prep Method: SW8015P

% Moisture:

Date Prep: 02.29.2020 10:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	03.01.2020 02:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	96.2	49.9	mg/kg	03.01.2020 02:13		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	03.01.2020 02:13	U	1
Total TPH	PHCG35	96.2	49.9	mg/kg	03.01.2020 02:13		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	03.01.2020 02:13	
o-Terphenyl	84-15-1	103	%	70-135	03.01.2020 02:13	

Analytical Method: BTEX by EPA 8021B

Tech: MIT

Analyst: MIT

Seq Number: 3118615

Prep Method: SW5030B

% Moisture:

Date Prep: 03.04.2020 15:00

Basis: Wet Weight

SUB: T104704219-19-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00100	0.00100	mg/kg	03.05.2020 07:19	U	1
Toluene	108-88-3	<0.00100	0.00100	mg/kg	03.05.2020 07:19	U	1
Ethylbenzene	100-41-4	<0.00100	0.00100	mg/kg	03.05.2020 07:19	U	1
m,p-Xylenes	179601-23-1	<0.00200	0.00200	mg/kg	03.05.2020 07:19	U	1
o-Xylene	95-47-6	<0.00100	0.00100	mg/kg	03.05.2020 07:19	U	1
Total Xylenes	1330-20-7	<0.00100	0.00100	mg/kg	03.05.2020 07:19	U	1
Total BTEX		<0.00100	0.00100	mg/kg	03.05.2020 07:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	111	%	68-120	03.05.2020 07:19	
a,a,a-Trifluorotoluene	98-08-8	107	%	71-121	03.05.2020 07:19	



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GHD Services, INC- Midland, Midland, TX

Enlink Falcon Spill

Sample Id: **HD-7**
Lab Sample Id: 654090-026

Matrix: Soil
Date Collected: 02.27.2020 12:15

Date Received: 02.28.2020 11:54
Sample Depth: 0 - 6 In

Analytical Method: TPH By SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3118190

Prep Method: SW8015P

% Moisture:

Date Prep: 02.29.2020 10:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.01.2020 02:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.01.2020 02:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.01.2020 02:34	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.01.2020 02:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	03.01.2020 02:34	
o-Terphenyl	84-15-1	107	%	70-135	03.01.2020 02:34	

Analytical Method: BTEX by EPA 8021B

Tech: MIT

Analyst: MIT

Seq Number: 3118615

Prep Method: SW5030B

% Moisture:

Date Prep: 03.04.2020 15:00

Basis: Wet Weight

SUB: T104704219-19-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000994	0.000994	mg/kg	03.05.2020 07:46	U	1
Toluene	108-88-3	<0.000994	0.000994	mg/kg	03.05.2020 07:46	U	1
Ethylbenzene	100-41-4	<0.000994	0.000994	mg/kg	03.05.2020 07:46	U	1
m,p-Xylenes	179601-23-1	<0.00199	0.00199	mg/kg	03.05.2020 07:46	U	1
o-Xylene	95-47-6	<0.000994	0.000994	mg/kg	03.05.2020 07:46	U	1
Total Xylenes	1330-20-7	<0.000994	0.000994	mg/kg	03.05.2020 07:46	U	1
Total BTEX		<0.000994	0.000994	mg/kg	03.05.2020 07:46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	111	%	68-120	03.05.2020 07:46	
a,a,a-Trifluorotoluene	98-08-8	107	%	71-121	03.05.2020 07:46	



Certificate of Analytical Results 654090

GHD Services, INC- Midland, Midland, TX

Enlink Falcon Spill

Sample Id: **HD-8**
 Lab Sample Id: 654090-027

Matrix: Soil
 Date Collected: 02.27.2020 12:30

Date Received: 02.28.2020 11:54
 Sample Depth: 0 - 6 In

Analytical Method: TPH By SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3118190

Prep Method: SW8015P

% Moisture:

Date Prep: 02.29.2020 10:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	03.01.2020 02:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	114	49.8	mg/kg	03.01.2020 02:55		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	03.01.2020 02:55	U	1
Total TPH	PHCG35	114	49.8	mg/kg	03.01.2020 02:55		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-135	03.01.2020 02:55	
o-Terphenyl	84-15-1	105	%	70-135	03.01.2020 02:55	

Analytical Method: BTEX by EPA 8021B

Tech: MIT

Analyst: MIT

Seq Number: 3118615

Prep Method: SW5030B

% Moisture:

Date Prep: 03.04.2020 15:00

Basis: Wet Weight

SUB: T104704219-19-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00100	0.00100	mg/kg	03.05.2020 08:13	U	1
Toluene	108-88-3	<0.00100	0.00100	mg/kg	03.05.2020 08:13	U	1
Ethylbenzene	100-41-4	<0.00100	0.00100	mg/kg	03.05.2020 08:13	U	1
m,p-Xylenes	179601-23-1	<0.00201	0.00201	mg/kg	03.05.2020 08:13	U	1
o-Xylene	95-47-6	<0.00100	0.00100	mg/kg	03.05.2020 08:13	U	1
Total Xylenes	1330-20-7	<0.00100	0.00100	mg/kg	03.05.2020 08:13	U	1
Total BTEX		<0.00100	0.00100	mg/kg	03.05.2020 08:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	111	%	68-120	03.05.2020 08:13	
a,a,a-Trifluorotoluene	98-08-8	109	%	71-121	03.05.2020 08:13	



Certificate of Analytical Results 654090

GHD Services, INC- Midland, Midland, TX

Enlink Falcon Spill

Sample Id: **HD-9**
Lab Sample Id: 654090-028

Matrix: Soil
Date Collected: 02.27.2020 12:45

Date Received: 02.28.2020 11:54
Sample Depth: 0 - 6 In

Analytical Method: TPH By SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3118190

Prep Method: SW8015P

% Moisture:

Date Prep: 02.29.2020 10:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.01.2020 03:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.01.2020 03:16	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.01.2020 03:16	U	1
Total TPH	PHCG35	<50.0	50.0	mg/kg	03.01.2020 03:16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	03.01.2020 03:16	
o-Terphenyl	84-15-1	105	%	70-135	03.01.2020 03:16	

Analytical Method: BTEX by EPA 8021B

Tech: MIT

Analyst: MIT

Seq Number: 3118615

Prep Method: SW5030B

% Moisture:

Date Prep: 03.04.2020 15:00

Basis: Wet Weight

SUB: T104704219-19-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000994	0.000994	mg/kg	03.05.2020 08:40	U	1
Toluene	108-88-3	<0.000994	0.000994	mg/kg	03.05.2020 08:40	U	1
Ethylbenzene	100-41-4	<0.000994	0.000994	mg/kg	03.05.2020 08:40	U	1
m,p-Xylenes	179601-23-1	<0.00199	0.00199	mg/kg	03.05.2020 08:40	U	1
o-Xylene	95-47-6	<0.000994	0.000994	mg/kg	03.05.2020 08:40	U	1
Total Xylenes	1330-20-7	<0.000994	0.000994	mg/kg	03.05.2020 08:40	U	1
Total BTEX		<0.000994	0.000994	mg/kg	03.05.2020 08:40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	111	%	68-120	03.05.2020 08:40	
a,a,a-Trifluorotoluene	98-08-8	109	%	71-121	03.05.2020 08:40	



Certificate of Analytical Results 654090

GHD Services, INC- Midland, Midland, TX

Enlink Falcon Spill

Sample Id: **HD-10**
Lab Sample Id: 654090-029

Matrix: Soil
Date Collected: 02.27.2020 13:00

Date Received: 02.28.2020 11:54
Sample Depth: 0 - 6 In

Analytical Method: TPH By SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3118190

Prep Method: SW8015P

% Moisture:

Date Prep: 02.29.2020 10:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	03.01.2020 03:37	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	03.01.2020 03:37	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	03.01.2020 03:37	U	1
Total TPH	PHCG35	<49.9	49.9	mg/kg	03.01.2020 03:37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	03.01.2020 03:37	
o-Terphenyl	84-15-1	104	%	70-135	03.01.2020 03:37	

Analytical Method: BTEX by EPA 8021B

Tech: MIT

Analyst: MIT

Seq Number: 3118615

Prep Method: SW5030B

% Moisture:

Date Prep: 03.04.2020 15:00

Basis: Wet Weight

SUB: T104704219-19-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000996	0.000996	mg/kg	03.05.2020 09:06	U	1
Toluene	108-88-3	<0.000996	0.000996	mg/kg	03.05.2020 09:06	U	1
Ethylbenzene	100-41-4	<0.000996	0.000996	mg/kg	03.05.2020 09:06	U	1
m,p-Xylenes	179601-23-1	<0.00199	0.00199	mg/kg	03.05.2020 09:06	U	1
o-Xylene	95-47-6	<0.000996	0.000996	mg/kg	03.05.2020 09:06	U	1
Total Xylenes	1330-20-7	<0.000996	0.000996	mg/kg	03.05.2020 09:06	U	1
Total BTEX		<0.000996	0.000996	mg/kg	03.05.2020 09:06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	114	%	68-120	03.05.2020 09:06	
a,a,a-Trifluorotoluene	98-08-8	110	%	71-121	03.05.2020 09:06	



Certificate of Analytical Results 654090

GHD Services, INC- Midland, Midland, TX

Enlink Falcon Spill

Sample Id: **HD-11**
Lab Sample Id: 654090-030

Matrix: Soil
Date Collected: 02.27.2020 13:15

Date Received: 02.28.2020 11:54
Sample Depth: 0 - 6 In

Analytical Method: TPH By SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3118190

Prep Method: SW8015P

% Moisture:

Date Prep: 02.29.2020 10:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.01.2020 03:57	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.01.2020 03:57	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.01.2020 03:57	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.01.2020 03:57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	03.01.2020 03:57	
o-Terphenyl	84-15-1	108	%	70-135	03.01.2020 03:57	

Analytical Method: BTEX by EPA 8021B

Tech: MIT

Analyst: MIT

Seq Number: 3118765

Prep Method: SW5030B

% Moisture:

Date Prep: 03.05.2020 14:00

Basis: Wet Weight

SUB: T104704219-19-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00100	0.00100	mg/kg	03.05.2020 20:41	U	1
Toluene	108-88-3	<0.00100	0.00100	mg/kg	03.05.2020 20:41	U	1
Ethylbenzene	100-41-4	<0.00100	0.00100	mg/kg	03.05.2020 20:41	U	1
m,p-Xylenes	179601-23-1	<0.00200	0.00200	mg/kg	03.05.2020 20:41	U	1
o-Xylene	95-47-6	<0.00100	0.00100	mg/kg	03.05.2020 20:41	U	1
Total Xylenes	1330-20-7	<0.00100	0.00100	mg/kg	03.05.2020 20:41	U	1
Total BTEX		<0.00100	0.00100	mg/kg	03.05.2020 20:41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	116	%	68-120	03.05.2020 20:41	
a,a,a-Trifluorotoluene	98-08-8	111	%	71-121	03.05.2020 20:41	



Certificate of Analytical Results 654090

GHD Services, INC- Midland, Midland, TX

Enlink Falcon Spill

Sample Id: **HD-12**
Lab Sample Id: 654090-031

Matrix: Soil
Date Collected: 02.27.2020 13:30

Date Received: 02.28.2020 11:54
Sample Depth: 0 - 6 In

Analytical Method: TPH By SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3118190

Prep Method: SW8015P

% Moisture:

Date Prep: 02.29.2020 10:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	03.01.2020 04:39	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	03.01.2020 04:39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	03.01.2020 04:39	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	03.01.2020 04:39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	03.01.2020 04:39	
o-Terphenyl	84-15-1	103	%	70-135	03.01.2020 04:39	

Analytical Method: BTEX by EPA 8021B

Tech: MIT

Analyst: MIT

Seq Number: 3118765

Prep Method: SW5030B

% Moisture:

Date Prep: 03.05.2020 14:00

Basis: Wet Weight

SUB: T104704219-19-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000994	0.000994	mg/kg	03.05.2020 21:08	U	1
Toluene	108-88-3	<0.000994	0.000994	mg/kg	03.05.2020 21:08	U	1
Ethylbenzene	100-41-4	<0.000994	0.000994	mg/kg	03.05.2020 21:08	U	1
m,p-Xylenes	179601-23-1	<0.00199	0.00199	mg/kg	03.05.2020 21:08	U	1
o-Xylene	95-47-6	<0.000994	0.000994	mg/kg	03.05.2020 21:08	U	1
Total Xylenes	1330-20-7	<0.000994	0.000994	mg/kg	03.05.2020 21:08	U	1
Total BTEX		<0.000994	0.000994	mg/kg	03.05.2020 21:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	75	%	68-120	03.05.2020 21:08	
a,a,a-Trifluorotoluene	98-08-8	78	%	71-121	03.05.2020 21:08	



Certificate of Analytical Results 654090

GHD Services, INC- Midland, Midland, TX

Enlink Falcon Spill

Sample Id: **HD-13** Matrix: Soil Date Received: 02.28.2020 11:54
 Lab Sample Id: 654090-032 Date Collected: 02.27.2020 13:45 Sample Depth: 0 - 6 In
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 03.04.2020 11:40 Basis: Wet Weight
 Seq Number: 3118568

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.00	5.00	mg/kg	03.04.2020 13:48	U	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: ARM % Moisture:
 Analyst: ARM Date Prep: 02.29.2020 10:00 Basis: Wet Weight
 Seq Number: 3118190

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.01.2020 05:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.01.2020 05:00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.01.2020 05:00	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.01.2020 05:00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	03.01.2020 05:00	
o-Terphenyl	84-15-1	102	%	70-135	03.01.2020 05:00	



Certificate of Analytical Results 654090

GHD Services, INC- Midland, Midland, TX

Enlink Falcon Spill

Sample Id: **HD-13**
Lab Sample Id: 654090-032

Matrix: Soil
Date Collected: 02.27.2020 13:45

Date Received: 02.28.2020 11:54
Sample Depth: 0 - 6 In

Analytical Method: BTEX by EPA 8021B

Tech: MIT

Analyst: MIT

Seq Number: 3118765

Prep Method: SW5030B

% Moisture:

Date Prep: 03.05.2020 14:00

Basis: Wet Weight

SUB: T104704219-19-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000994	0.000994	mg/kg	03.05.2020 21:34	U	1
Toluene	108-88-3	<0.000994	0.000994	mg/kg	03.05.2020 21:34	U	1
Ethylbenzene	100-41-4	<0.000994	0.000994	mg/kg	03.05.2020 21:34	U	1
m,p-Xylenes	179601-23-1	<0.00199	0.00199	mg/kg	03.05.2020 21:34	U	1
o-Xylene	95-47-6	<0.000994	0.000994	mg/kg	03.05.2020 21:34	U	1
Total Xylenes	1330-20-7	<0.000994	0.000994	mg/kg	03.05.2020 21:34	U	1
Total BTEX		<0.000994	0.000994	mg/kg	03.05.2020 21:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	117	%	68-120	03.05.2020 21:34	
a,a,a-Trifluorotoluene	98-08-8	112	%	71-121	03.05.2020 21:34	



Certificate of Analytical Results 654090

GHD Services, INC- Midland, Midland, TX

Enlink Falcon Spill

Sample Id: **HD-14**
Lab Sample Id: 654090-033

Matrix: Soil
Date Collected: 02.27.2020 14:00

Date Received: 02.28.2020 11:54
Sample Depth: 0 - 6 In

Analytical Method: TPH By SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3118190

Prep Method: SW8015P

% Moisture:

Date Prep: 02.29.2020 10:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	03.01.2020 05:21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	03.01.2020 05:21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	03.01.2020 05:21	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	03.01.2020 05:21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-135	03.01.2020 05:21	
o-Terphenyl	84-15-1	104	%	70-135	03.01.2020 05:21	

Analytical Method: BTEX by EPA 8021B

Tech: MIT

Analyst: MIT

Seq Number: 3118765

Prep Method: SW5030B

% Moisture:

Date Prep: 03.05.2020 14:00

Basis: Wet Weight

SUB: T104704219-19-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000994	0.000994	mg/kg	03.05.2020 22:00	U	1
Toluene	108-88-3	<0.000994	0.000994	mg/kg	03.05.2020 22:00	U	1
Ethylbenzene	100-41-4	<0.000994	0.000994	mg/kg	03.05.2020 22:00	U	1
m,p-Xylenes	179601-23-1	<0.00199	0.00199	mg/kg	03.05.2020 22:00	U	1
o-Xylene	95-47-6	<0.000994	0.000994	mg/kg	03.05.2020 22:00	U	1
Total Xylenes	1330-20-7	<0.000994	0.000994	mg/kg	03.05.2020 22:00	U	1
Total BTEX		<0.000994	0.000994	mg/kg	03.05.2020 22:00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	117	%	68-120	03.05.2020 22:00	
a,a,a-Trifluorotoluene	98-08-8	111	%	71-121	03.05.2020 22:00	



Certificate of Analytical Results 654090

GHD Services, INC- Midland, Midland, TX

Enlink Falcon Spill

Sample Id: **HD-15**
Lab Sample Id: 654090-034

Matrix: Soil
Date Collected: 02.27.2020 14:15

Date Received: 02.28.2020 11:54
Sample Depth: 0 - 6 In

Analytical Method: TPH By SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3118190

Prep Method: SW8015P

% Moisture:

Date Prep: 02.29.2020 10:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.01.2020 05:42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.01.2020 05:42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.01.2020 05:42	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.01.2020 05:42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-135	03.01.2020 05:42	
o-Terphenyl	84-15-1	100	%	70-135	03.01.2020 05:42	

Analytical Method: BTEX by EPA 8021B

Tech: MIT

Analyst: MIT

Seq Number: 3118765

Prep Method: SW5030B

% Moisture:

Date Prep: 03.05.2020 14:00

Basis: Wet Weight

SUB: T104704219-19-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000992	0.000992	mg/kg	03.05.2020 22:27	U	1
Toluene	108-88-3	<0.000992	0.000992	mg/kg	03.05.2020 22:27	U	1
Ethylbenzene	100-41-4	<0.000992	0.000992	mg/kg	03.05.2020 22:27	U	1
m,p-Xylenes	179601-23-1	<0.00198	0.00198	mg/kg	03.05.2020 22:27	U	1
o-Xylene	95-47-6	<0.000992	0.000992	mg/kg	03.05.2020 22:27	U	1
Total Xylenes	1330-20-7	<0.000992	0.000992	mg/kg	03.05.2020 22:27	U	1
Total BTEX		<0.000992	0.000992	mg/kg	03.05.2020 22:27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	117	%	68-120	03.05.2020 22:27	
a,a,a-Trifluorotoluene	98-08-8	114	%	71-121	03.05.2020 22:27	



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



GHD Services, INC- Midland Enlink Falcon Spill

Analytical Method: Chloride by EPA 300

Seq Number: 3118568

MB Sample Id: 7698046-1-BLK

Matrix: Solid

LCS Sample Id: 7698046-1-BKS

Prep Method: E300P

Date Prep: 03.04.2020

LCSD Sample Id: 7698046-1-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	247	99	243	97	90-110	2	20	mg/kg	03.04.2020 12:08	

Analytical Method: Chloride by EPA 300

Seq Number: 3118568

Parent Sample Id: 654090-021

Matrix: Soil

MS Sample Id: 654090-021 S

Prep Method: E300P

Date Prep: 03.04.2020

MSD Sample Id: 654090-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	4.47	251	254	99	253	99	90-110	0	20	mg/kg	03.04.2020 13:38	

Analytical Method: Chloride by EPA 300

Seq Number: 3118568

Parent Sample Id: 654255-001

Matrix: Soil

MS Sample Id: 654255-001 S

Prep Method: E300P

Date Prep: 03.04.2020

MSD Sample Id: 654255-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	383	249	618	94	618	94	90-110	0	20	mg/kg	03.04.2020 12:24	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3118189

MB Sample Id: 7697817-1-BLK

Matrix: Solid

LCS Sample Id: 7697817-1-BKS

Prep Method: SW8015P

Date Prep: 02.29.2020

LCSD Sample Id: 7697817-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	970	97	913	91	70-135	6	20	mg/kg	02.29.2020 14:01	
Diesel Range Organics (DRO)	<15.0	1000	1120	112	1030	103	70-135	8	20	mg/kg	02.29.2020 14:01	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	94		101		92		70-135	%	02.29.2020 14:01
o-Terphenyl	98		107		94		70-135	%	02.29.2020 14:01

Analytical Method: TPH By SW8015 Mod

Seq Number: 3118190

MB Sample Id: 7697820-1-BLK

Matrix: Solid

LCS Sample Id: 7697820-1-BKS

Prep Method: SW8015P

Date Prep: 02.29.2020

LCSD Sample Id: 7697820-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	1050	105	1080	108	70-135	3	20	mg/kg	02.29.2020 23:26	
Diesel Range Organics (DRO)	<15.0	1000	1160	116	1200	120	70-135	3	20	mg/kg	02.29.2020 23:26	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	94		104		111		70-135	%	02.29.2020 23:26
o-Terphenyl	98		108		106		70-135	%	02.29.2020 23:26

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



GHD Services, INC- Midland

Enlink Falcon Spill

Analytical Method: TPH By SW8015 Mod

Seq Number: 3118189

Matrix: Solid

Prep Method: SW8015P

Date Prep: 02.29.2020

MB Sample Id: 7697817-1-BLK

Parameter

Motor Oil Range Hydrocarbons (MRO)

**MB
Result**

<50.0

Units

mg/kg

**Analysis
Date**

02.29.2020 13:40

Flag**Analytical Method:** TPH By SW8015 Mod

Seq Number: 3118190

Matrix: Solid

Prep Method: SW8015P

Date Prep: 02.29.2020

MB Sample Id: 7697820-1-BLK

Parameter

Motor Oil Range Hydrocarbons (MRO)

**MB
Result**

<50.0

Units

mg/kg

**Analysis
Date**

02.29.2020 23:04

Flag**Analytical Method:** TPH By SW8015 Mod

Seq Number: 3118189

Matrix: Soil

Prep Method: SW8015P

Date Prep: 02.29.2020

Parent Sample Id: 654090-001

MS Sample Id: 654090-001 S

MSD Sample Id: 654090-001 SD

Parameter

Gasoline Range Hydrocarbons (GRO)

**Parent
Result**

25.1

**Spike
Amount**

999

**MS
Result****MS
%Rec**

982

96

**MSD
Result****MSD
%Rec**

992

97

Limits**%RPD**

70-135

1

**RPD
Limit****Units**

mg/kg

**Analysis
Date**

02.29.2020 15:04

Flag

Diesel Range Organics (DRO)

425

999

1380

96

1390

97

70-135

1

20

mg/kg

02.29.2020 15:04

Surrogate

1-Chlorooctane

**MS
%Rec**

104

**MS
Flag****MSD
%Rec**

105

**MSD
Flag****Limits**

70-135

Units

%

**Analysis
Date**

02.29.2020 15:04

o-Terphenyl

110

115

70-135

%

02.29.2020 15:04

Analytical Method: TPH By SW8015 Mod

Seq Number: 3118190

Matrix: Soil

Prep Method: SW8015P

Date Prep: 02.29.2020

Parent Sample Id: 654090-021

MS Sample Id: 654090-021 S

MSD Sample Id: 654090-021 SD

Parameter

Gasoline Range Hydrocarbons (GRO)

**Parent
Result**

17.3

**Spike
Amount**

999

**MS
Result****MS
%Rec**

931

91

**MSD
Result****MSD
%Rec**

980

96

Limits**%RPD**

70-135

5

**RPD
Limit****Units**

mg/kg

**Analysis
Date**

03.01.2020 00:28

Flag

Diesel Range Organics (DRO)

109

999

1160

105

1190

108

70-135

3

20

mg/kg

03.01.2020 00:28

Surrogate

1-Chlorooctane

**MS
%Rec**

101

**MS
Flag****MSD
%Rec**

103

**MSD
Flag****Limits**

70-135

Units

%

**Analysis
Date**

03.01.2020 00:28

o-Terphenyl

104

107

70-135

%

03.01.2020 00:28

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



GHD Services, INC- Midland Enlink Falcon Spill

Analytical Method: BTEX by EPA 8021B

Seq Number: 3118632

Matrix: Solid

Prep Method: SW5030B

Date Prep: 03.04.2020

MB Sample Id: 7698138-1-BLK

LCS Sample Id: 7698138-1-BKS

LCSD Sample Id: 7698138-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00100	0.100	0.101	101	0.0996	100	55-120	1	20	mg/kg	03.04.2020 18:08	
Toluene	<0.00100	0.100	0.110	110	0.107	107	77-120	3	20	mg/kg	03.04.2020 18:08	
Ethylbenzene	<0.00100	0.100	0.116	116	0.114	114	77-120	2	20	mg/kg	03.04.2020 18:08	
m,p-Xylenes	<0.00200	0.200	0.230	115	0.226	113	78-120	2	20	mg/kg	03.04.2020 18:08	
o-Xylene	<0.00100	0.100	0.113	113	0.112	112	78-120	1	20	mg/kg	03.04.2020 18:08	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	127	**	128	**	127	**	68-120	%	03.04.2020 18:08
a,a,a-Trifluorotoluene	126	**	120		120		71-121	%	03.04.2020 18:08

Analytical Method: BTEX by EPA 8021B

Seq Number: 3118615

Matrix: Solid

Prep Method: SW5030B

Date Prep: 03.04.2020

MB Sample Id: 7698130-1-BLK

LCS Sample Id: 7698130-1-BKS

LCSD Sample Id: 7698130-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00100	0.100	0.104	104	0.102	102	55-120	2	20	mg/kg	03.04.2020 19:39	
Toluene	<0.00100	0.100	0.111	111	0.109	109	77-120	2	20	mg/kg	03.04.2020 19:39	
Ethylbenzene	<0.00100	0.100	0.112	112	0.109	109	77-120	3	20	mg/kg	03.04.2020 19:39	
m,p-Xylenes	<0.00200	0.200	0.222	111	0.217	109	78-120	2	20	mg/kg	03.04.2020 19:39	
o-Xylene	<0.00100	0.100	0.110	110	0.107	107	78-120	3	20	mg/kg	03.04.2020 19:39	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	74		100		100		68-120	%	03.04.2020 19:39
a,a,a-Trifluorotoluene	77		94		95		71-121	%	03.04.2020 19:39

Analytical Method: BTEX by EPA 8021B

Seq Number: 3118765

Matrix: Solid

Prep Method: SW5030B

Date Prep: 03.05.2020

MB Sample Id: 7698252-1-BLK

LCS Sample Id: 7698252-1-BKS

LCSD Sample Id: 7698252-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00100	0.100	0.109	109	0.109	109	55-120	0	20	mg/kg	03.05.2020 16:40	
Toluene	<0.00100	0.100	0.110	110	0.112	112	77-120	2	20	mg/kg	03.05.2020 16:40	
Ethylbenzene	<0.00100	0.100	0.111	111	0.113	113	77-120	2	20	mg/kg	03.05.2020 16:40	
m,p-Xylenes	<0.00200	0.200	0.221	111	0.223	112	78-120	1	20	mg/kg	03.05.2020 16:40	
o-Xylene	<0.00100	0.100	0.108	108	0.110	110	78-120	2	20	mg/kg	03.05.2020 16:40	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	117		99		98		68-120	%	03.05.2020 16:40
a,a,a-Trifluorotoluene	118		94		91		71-121	%	03.05.2020 16:40

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



GHD Services, INC- Midland Enlink Falcon Spill

Analytical Method: BTEX by EPA 8021B

Seq Number: 3118632

Parent Sample Id: 654387-002

Matrix: Soil

MS Sample Id: 654387-002 S

Prep Method: SW5030B

Date Prep: 03.04.2020

MSD Sample Id: 654387-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000982	0.0982	0.0929	95	0.0833	91	54-120	11	25	mg/kg	03.04.2020 21:23	
Toluene	<0.000982	0.0982	0.100	102	0.0903	98	57-120	10	25	mg/kg	03.04.2020 21:23	
Ethylbenzene	<0.000982	0.0982	0.105	107	0.0955	104	58-131	9	25	mg/kg	03.04.2020 21:23	
m,p-Xylenes	<0.00196	0.196	0.208	106	0.189	103	62-124	10	25	mg/kg	03.04.2020 21:23	
o-Xylene	<0.000982	0.0982	0.101	103	0.0922	101	62-124	9	25	mg/kg	03.04.2020 21:23	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	126	**	124	**	68-120	%	03.04.2020 21:23
a,a,a-Trifluorotoluene	125	**	126	**	71-121	%	03.04.2020 21:23

Analytical Method: BTEX by EPA 8021B

Seq Number: 3118615

Parent Sample Id: 654090-001

Matrix: Soil

MS Sample Id: 654090-001 S

Prep Method: SW5030B

Date Prep: 03.04.2020

MSD Sample Id: 654090-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000998	0.0998	0.0701	70	0.0985	99	54-120	34	25	mg/kg	03.04.2020 22:21	F
Toluene	<0.000998	0.0998	0.0727	73	0.110	110	57-120	41	25	mg/kg	03.04.2020 22:21	F
Ethylbenzene	<0.000998	0.0998	0.0760	76	0.116	116	58-131	42	25	mg/kg	03.04.2020 22:21	F
m,p-Xylenes	0.00551	0.200	0.143	69	0.234	114	62-124	48	25	mg/kg	03.04.2020 22:21	F
o-Xylene	0.00170	0.0998	0.0727	71	0.109	107	62-124	40	25	mg/kg	03.04.2020 22:21	F

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	67	**	103		68-120	%	03.04.2020 22:21
a,a,a-Trifluorotoluene	71		97		71-121	%	03.04.2020 22:21

Analytical Method: BTEX by EPA 8021B

Seq Number: 3118765

Parent Sample Id: 654090-020

Matrix: Soil

MS Sample Id: 654090-020 S

Prep Method: SW5030B

Date Prep: 03.05.2020

MSD Sample Id: 654090-020 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00100	0.100	0.102	102	0.102	101	54-120	0	25	mg/kg	03.05.2020 19:21	
Toluene	<0.00100	0.100	0.112	112	0.110	109	57-120	2	25	mg/kg	03.05.2020 19:21	
Ethylbenzene	<0.00100	0.100	0.118	118	0.117	116	58-131	1	25	mg/kg	03.05.2020 19:21	
m,p-Xylenes	<0.00200	0.200	0.235	118	0.233	115	62-124	1	25	mg/kg	03.05.2020 19:21	
o-Xylene	<0.00100	0.100	0.116	116	0.113	112	62-124	3	25	mg/kg	03.05.2020 19:21	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	104		104		68-120	%	03.05.2020 19:21
a,a,a-Trifluorotoluene	98		97		71-121	%	03.05.2020 19:21

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

Work Order No:

154090

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) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000)

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Project Manager:	TOM LARSON	Bill to: (if different)	GHD Midland
Company Name:	GHD	Company Name:	
Address:	2135 Sloop 350 West	Address:	
City, State ZIP:	Midland, TX 79703	City, State ZIP:	
Phone:	432-686-0086	Email:	

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

Project Name:	Enlink Falcon Spill	Turn Around	
Project Number:	11205561-01	Routine	☒
P.O. Number:		Rush:	
Sampler's Name:	G. Sam	Due Date:	

SAMPLE RECEIPT	Temp Blank:	Yes ☐	No ☒	Wet Ice:	Yes ☐	No ☒
	Temperature (°C):	3.4				
	Received In tact:	Yes ☒	No ☐	Thermometer ID	26	
	Cooler Custody Seals:	Yes ☐	No ☒	Correction Factor:	0	
	Sample Custody Seals:	Yes ☐	No ☒	Total Containers:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number															Sample Comments
SL-1A	S	2-23-20	1055	12.5	1	X														
SL-2A			1105	5.5	X															
SL-3A			1120	5.5																
SL-4A			1150	5.5																
SL-5A			1155	5.5																
SL-6A			1220	5.5																
SL-7A			1230	5																
SL-8A			1235	5																
SL-9A			1240	5																
SL-10A			1320	5																
SL-11A			1320	5																

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
 1631 / 245.1 / 7470 / 7471 : Hg

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		2/28/20			
		1/54			



Chain of Custody

Work Order No:

1054090

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) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000)

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Project Manager:	Tom Larson	Bill to: (if different)	GHD Midland
Company Name:	GHD	Company Name:	
Address:		Address:	
City, State ZIP:	Midland	City, State ZIP:	
Phone:		Email:	

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

Project Name:	Enlink Falcon	Turn Around	
Project Number:	11205561	Routine	☒
P.O. Number:		Rush:	
Sampler's Name:	G. Seng	Due Date:	

SAMPLE RECEIPT	Temp Blank:	Yes ☐ No ☒	Wet Ice:	Yes ☐ No ☒
Temperature (°C):	3.0	Thermometer ID: 02		
Received Intact:	Yes ☒ No ☐	Correction Factor:		
Cooler Custody Seals:	Yes ☐ No ☒	Total Containers:		
Sample Custody Seals:	Yes ☐ No ☒			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth in feet	Number of Containers	ANALYSIS REQUEST	Work Order Notes
SL-13A	5	2-29-20	11:35	4	1	BTEX 8021B	
SL-13A			13:35	5.5	1	TPH 8015 mol	
SL-14A			13:35	5	1		
SL-15A			14:20	4.5	1		
ES-11			15:00	3.5	1		
ES-17A			14:30	3	1		
SL-16			15:30	4	1		
SL-17			16:00	4.5	1		
SL-18			16:45	8	1		

TAT starts the day received by the lab. If received by 4:30pm

Sample Comments

New Mexico
 Eddy Co. Site
 5 day TAT

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
		2/28/20			
		1/24			



Chain of Custody

Work Order No:

1050090

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) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000)

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Project Manager:	Tom Larson	Bill to: (if different)	CAD Midland
Company Name:	GHD	Company Name:	
Address:		Address:	
City, State ZIP:	Midland	City, State ZIP:	
Phone:		Email:	

Program: ☐ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund State of Project: Reporting Level: ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV Deliverables: ☐ EDD ☐ ADAPT ☐ Other:	Work Order Comments TAT starts the day received by the lab, if received by 4:30pm
---	---

Project Name:	Enlight Falcon	Turn Around	☒
Project Number:	11205361	Routine	
P.O. Number:		Rush:	
Sampler's Name:	G. Sany	Due Date:	

SAMPLE RECEIPT	Temp Blank:	Yes ☐ No ☒	Wet Ice:	Yes ☐ No ☒
Temperature (°C):	34	Thermometer ID		
Received intact:	Yes ☒ No ☐	Correction Factor:		
Cooler Custody Seals:	Yes ☐ No ☒	Total Containers:		
Sample Custody Seals:	Yes ☐ No ☒			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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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
1		2			
2		4			
3		6			
4					
5					



Chain of Custody

Work Order No: 105090

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) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000)

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Page 4 of 4

Project Manager:	Tom Larson	Bill to: (if different)	GHD Midland
Company Name:	GHD	Company Name:	
Address:		Address:	
City, State ZIP:	Midland	City, State ZIP:	
Phone:		Email:	

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

Project Name:	Falken	Turn Around	
Project Number:	11205361	Routine	☒
P.O. Number:		Rush:	
Sampler's Name:	G. Song	Due Date:	

SAMPLE RECEIPT Temperature (°C): 30 Received Intact: (Yes) No Cooler Custody Seals: Yes No (N/A) Sample Custody Seals: Yes No N/A Total Containers: 20		ANALYSIS REQUEST Number of Containers BTEX 8021B TPH 8015md		Work Order Notes New Mexico Eddy Co. site 5day TAT	
---	--	--	--	---	--

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers																				Sample Comments
HD-11		3	1315	0-6	1	X																			
HD-12			1330																						
HD-13			1345																						
HD-14			1400																						
HD-15			1415																						

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Pb 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

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		2/22/20			2
					4
		1/54			6

Inter-Office Shipment

IOS Number : **59314**

Date/Time: 03.02.2020

Created by: Jessica Kramer

Please send report to: Debbie Simmons

Lab# From: **Midland**

Delivery Priority:

Address: 1211 W. Florida Ave

Lab# To: **Lubbock**

Air Bill No.: 777910636518

E-Mail: debbie.simmons@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
654090-001	S	SL-1A	02.27.2020 10:55	SW8021B	BTEX by EPA 8021B	03.05.2020	03.12.2020	DES	BR4FBZ BZ BZME EBZ	
654090-002	S	SL-2A	02.27.2020 11:05	SW8021B	BTEX by EPA 8021B	03.05.2020	03.12.2020	DES	BR4FBZ BZ BZME EBZ	
654090-003	S	SL-3A	02.27.2020 11:20	SW8021B	BTEX by EPA 8021B	03.05.2020	03.12.2020	DES	BR4FBZ BZ BZME EBZ	
654090-004	S	SL-4A	02.27.2020 11:50	SW8021B	BTEX by EPA 8021B	03.05.2020	03.12.2020	DES	BR4FBZ BZ BZME EBZ	
654090-005	S	SL-5A	02.27.2020 11:55	SW8021B	BTEX by EPA 8021B	03.05.2020	03.12.2020	DES	BR4FBZ BZ BZME EBZ	
654090-006	S	SL-6A	02.27.2020 12:20	SW8021B	BTEX by EPA 8021B	03.05.2020	03.12.2020	DES	BR4FBZ BZ BZME EBZ	
654090-007	S	SL-7A	02.27.2020 12:30	SW8021B	BTEX by EPA 8021B	03.05.2020	03.12.2020	DES	BR4FBZ BZ BZME EBZ	
654090-008	S	SL-8A	02.27.2020 12:35	SW8021B	BTEX by EPA 8021B	03.05.2020	03.12.2020	DES	BR4FBZ BZ BZME EBZ	
654090-009	S	SL-10A	02.27.2020 12:40	SW8021B	BTEX by EPA 8021B	03.05.2020	03.12.2020	DES	BR4FBZ BZ BZME EBZ	
654090-010	S	SL-11A	02.27.2020 13:20	SW8021B	BTEX by EPA 8021B	03.05.2020	03.12.2020	DES	BR4FBZ BZ BZME EBZ	
654090-011	S	SL-12A	02.27.2020 11:35	SW8021B	BTEX by EPA 8021B	03.05.2020	03.12.2020	DES	BR4FBZ BZ BZME EBZ	
654090-012	S	SL-13A	02.27.2020 13:35	SW8021B	BTEX by EPA 8021B	03.05.2020	03.12.2020	DES	BR4FBZ BZ BZME EBZ	
654090-013	S	SL-14A	02.27.2020 13:55	SW8021B	BTEX by EPA 8021B	03.05.2020	03.12.2020	DES	BR4FBZ BZ BZME EBZ	
654090-014	S	SL-15A	02.27.2020 14:20	SW8021B	BTEX by EPA 8021B	03.05.2020	03.12.2020	DES	BR4FBZ BZ BZME EBZ	
654090-015	S	ES-11	02.27.2020 15:00	SW8021B	BTEX by EPA 8021B	03.05.2020	03.12.2020	DES	BR4FBZ BZ BZME EBZ	
654090-016	S	ES-7A	02.27.2020 14:30	SW8021B	BTEX by EPA 8021B	03.05.2020	03.12.2020	DES	BR4FBZ BZ BZME EBZ	
654090-017	S	SL-16	02.27.2020 15:30	SW8021B	BTEX by EPA 8021B	03.05.2020	03.12.2020	DES	BR4FBZ BZ BZME EBZ	
654090-018	S	SL-17	02.27.2020 16:00	SW8021B	BTEX by EPA 8021B	03.05.2020	03.12.2020	DES	BR4FBZ BZ BZME EBZ	
654090-019	S	SL-18	02.27.2020 16:45	SW8021B	BTEX by EPA 8021B	03.05.2020	03.12.2020	DES	BR4FBZ BZ BZME EBZ	
654090-020	S	HD-1	02.27.2020 10:45	SW8021B	BTEX by EPA 8021B	03.05.2020	03.12.2020	DES	BR4FBZ BZ BZME EBZ	
654090-021	S	HD-2	02.27.2020 11:00	SW8021B	BTEX by EPA 8021B	03.05.2020	03.12.2020	DES	BR4FBZ BZ BZME EBZ	
654090-022	S	HD-3	02.27.2020 11:15	SW8021B	BTEX by EPA 8021B	03.05.2020	03.12.2020	DES	BR4FBZ BZ BZME EBZ	
654090-023	S	HD-4	02.27.2020 11:30	SW8021B	BTEX by EPA 8021B	03.05.2020	03.12.2020	DES	BR4FBZ BZ BZME EBZ	
654090-024	S	HD-5	02.27.2020 11:45	SW8021B	BTEX by EPA 8021B	03.05.2020	03.12.2020	DES	BR4FBZ BZ BZME EBZ	
654090-025	S	HD-6	02.27.2020 12:00	SW8021B	BTEX by EPA 8021B	03.05.2020	03.12.2020	DES	BR4FBZ BZ BZME EBZ	

Inter-Office Shipment

IOS Number : **59314**

Date/Time: 03.02.2020

Created by: Jessica Kramer

Please send report to: Debbie Simmons

Lab# From: **Midland**

Delivery Priority:

Address: 1211 W. Florida Ave

Lab# To: **Lubbock**

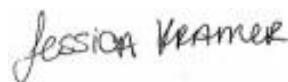
Air Bill No.: 777910636518

E-Mail: debbie.simmons@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
654090-026	S	HD-7	02.27.2020 12:15	SW8021B	BTEX by EPA 8021B	03.05.2020	03.12.2020	DES	BR4FBZ BZ BZME EBZ	
654090-027	S	HD-8	02.27.2020 12:30	SW8021B	BTEX by EPA 8021B	03.05.2020	03.12.2020	DES	BR4FBZ BZ BZME EBZ	
654090-028	S	HD-9	02.27.2020 12:45	SW8021B	BTEX by EPA 8021B	03.05.2020	03.12.2020	DES	BR4FBZ BZ BZME EBZ	
654090-029	S	HD-10	02.27.2020 13:00	SW8021B	BTEX by EPA 8021B	03.05.2020	03.12.2020	DES	BR4FBZ BZ BZME EBZ	
654090-030	S	HD-11	02.27.2020 13:15	SW8021B	BTEX by EPA 8021B	03.05.2020	03.12.2020	DES	BR4FBZ BZ BZME EBZ	
654090-031	S	HD-12	02.27.2020 13:30	SW8021B	BTEX by EPA 8021B	03.05.2020	03.12.2020	DES	BR4FBZ BZ BZME EBZ	
654090-032	S	HD-13	02.27.2020 13:45	SW8021B	BTEX by EPA 8021B	03.05.2020	03.12.2020	DES	BR4FBZ BZ BZME EBZ	
654090-033	S	HD-14	02.27.2020 14:00	SW8021B	BTEX by EPA 8021B	03.05.2020	03.12.2020	DES	BR4FBZ BZ BZME EBZ	
654090-034	S	HD-15	02.27.2020 14:15	SW8021B	BTEX by EPA 8021B	03.05.2020	03.12.2020	DES	BR4FBZ BZ BZME EBZ	

Inter Office Shipment or Sample Comments:

Relinquished By:



Jessica Kramer

Date Relinquished: 03.02.2020

Received By:



Ashley Derstine

Date Received: 03.03.2020

Cooler Temperature: 3.4



Inter Office Report- Sample Receipt Checklist

Sent To: Lubbock

IOS #: 59314

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

Sent By: Jessica Kramer

Date Sent: 03.02.2020 04.29 PM

Received By: Ashley Derstine

Date Received: 03.03.2020 09.30 AM

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	3.4
#2 *Shipping container in good condition?	Yes
#3 *Samples received with appropriate temperature?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 *Custody Seals Signed and dated for Containers/coolers	N/A
#6 *IOS present?	Yes
#7 Any missing/extra samples?	No
#8 IOS agrees with sample label(s)/matrix?	Yes
#9 Sample matrix/ properties agree with IOS?	Yes
#10 Samples in proper container/ bottle?	Yes
#11 Samples properly preserved?	Yes
#12 Sample container(s) intact?	Yes
#13 Sufficient sample amount for indicated test(s)?	Yes
#14 All samples received within hold time?	Yes

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

NonConformance:

Corrective Action Taken:

Nonconformance Documentation

Contact: _____ Contacted by : _____ Date: _____

Checklist reviewed by:

Ashley Derstine

Date: 03.03.2020

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: GHD Services, INC- Midland

Date/ Time Received: 02.28.2020 11.54.00 AM

Work Order #: 654090

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	3.6
#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#:

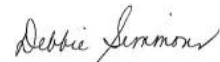
Checklist completed by:



Brianna Teel

Date: 02.28.2020

Checklist reviewed by:



Debbie Simmons

Date: 03.02.2020