



Electronic Correspondence

December 12, 2017

Ms. Olivia Wu  
Environmental Specialist  
State of New Mexico  
Oil Conservation Division  
1625 N. French Drive  
Hobbs, NM 88240  
[Olivia.wu@state.nm.us](mailto:Olivia.wu@state.nm.us)

Re: Assessment, Delineation & Corrective Report  
Stakeholder Midstream – Pipeline Release  
Average Depth to Groundwater: 72 Feet (State Eng Office)  
Lea County, NM  
Latitude: 33.111800, Longitude: -103.080704  
RP#: 1RP-4931

Dear Ms. Wu:

Etech Environmental & Safety Solutions, Inc. (Etech) was been contracted by Stakeholder Midstream (Stakeholder) to provide environmental services including mitigation on the Stakeholder pipeline release RP#: 1RP-4931. As a part of the move towards completion of mitigation, Etech has performed an assessment of the site and due to mitigating circumstances moved immediately to corrective action. The details of the project are presented below.

## **Assessment**

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### **Background**

The release occurred at the site on January 5, 2018. The source of the release was due to a penetration by a utility pole installation contractor to the top of a buried 6 inch poly pipeline. The pipeline was used for the transportation of crude oil to the Stakeholder Midstream Terminal in Yoakum County, Texas. Stakeholder immediately notified personnel and the line was shut in. A vacuum truck was immediately dispatched to the site to remove any available free liquids on the surface soils as well as used to remove crude oil in the pipeline. According to the C-141 submitted by others, the total release was estimated at 15 barrels with 12 recovered resulting in a net loss of 3 barrels.

### **Inspection & Corrective Action**

Upon arrival, the site resided very close to a drilling rig and pad that was in the process of completion. The impacted area measured approximately 60 feet long and ranged from 11 to 18 feet wide. An excavation of the pipeline was in progress to make repairs to the line. The excavation for repairs of the pipeline was approximately 10' long. Though the top of the line was 5 feet below ground surface (bgs), the excavation was a total depth of 8 feet bgs. This was required to install the equipment used for repairing the line which had placed under the line. As repair operations progressed, it became obvious that equipment was going to have to move through the impacted area to access the trench.

Consequently it was decided to excavate the impacted area. As excavation started, it was noted the visible impacted soils extended vertically 4-6 inches. The excavation contractor was instructed to excavate the impacted soil area to 1 foot bgs and stage the material away from traffic onto plastic.

The surface soils are described as a brown sandy loam. In the area where the excavation was made for repairs, rock was encountered at 5 feet bgs extending to the bottom of the excavation at 8 feet bgs.

The shallow portion of the excavation was divided into three sections plus an area for the release point. Samples were collected from the center and the north and south sidewalls of each section of the shallow portion of the excavation. Since there was additional activities being conducted in the deeper portion of the excavation (referred to as the release point), a cursory grab sample was collected at 8 feet from the bottom of this section. An annotated aerial image has been prepared showing the release areas and the sampling points and is provided in Attachment A.

The samples were sent to Permian Basin Environmental Laboratories (PBEL) in Midland, Texas. Samples were analyzed for Total Petroleum Hydrocarbons, (TPH) by method 8015 modified, Chlorides by Standard Methods, and Benzene, Toluene, Ethylbenzene and M & P Xylenes (BTEX) by Gas Chromatography. The results of analyses are as follows:

Summary of Delineation Sampling Analytical Results From 01/05/18 Sampling Event Total Petroleum Hydrocarbons - [TPH (mg/kg)] & Chlorides (mg/kg)							
Sample #	Depth (ft)	Date	TPH C6-C12	TPH >C12-C28	TPH >C28-C35	Total TPH	Chlorides
<b>**Release Point</b>	8	1/5/18	841	3380	622	<b>4850</b>	159
<b>East End Center</b>	1	1/5/18	1100	3770	718	<b>5590</b>	36.8
Center	1	1/5/18	ND	121	ND	121	ND
West End Center	1	1/5/18	ND	68.8	ND	68.8	ND
<b>W Wall N Side</b>	1	1/5/18	107	1030	189	<b>1330</b>	5.70
W Wall S Side	1	1/5/18	28.2	99.8	ND	128	ND
<b>E Wall, S Side</b>	1	1/5/18	339	1600	277	<b>2210</b>	14.2
E Wall N Side	1	1/5/18	ND	71.2	ND	71.2	51.7

Summary of Delineation Sampling Analytical Results From 01/05/18 Sampling Event BTEX (mg/kg)							
Sample #	Depth (ft)	Date	Benzene	Toluene	Ethylbenzene	Xylene (p/m)	Xylene (o)
<b>**Release Point</b>	8	1/5/18	0.342	3.11	8.27	2.91	1.68
East End Center	1	1/5/18	1.86	14.5	36.2	13.5	7.37
Center	1	1/5/18	ND	0.0836	0.101	0.0462	ND
West End Center	1	1/5/18	ND	0.0687	0.160	0.0617	0.0261
W Wall N Side	1	1/5/18	0.0499	0.240	0.700	0.243	0.107
W Wall S Side	1	1/5/18	0.0609	0.132	0.448	0.168	0.0937
E Wall, S Side	1	1/5/18	0.165	2.05	7.80	2.87	1.71
E Wall N Side	1	1/5/18	ND	0.109	0.395	0.125	0.100

\* ND = Non-Detect

**Bold Red** = TPH Above Regulatory Threshold Levels of 500 mg/kg

\*\* Sample was believed to be contaminated due to sloughing and had not been fully cleaned.

The analytical results indicated the majority of the impacted soil in the shallow area had been excavated, but additional excavation was needed for the center, the north wall of the west section and the south wall of the east section. Also, the release point excavation needed to be sampled as well after it had been cleaned out. Upon arrival at the site on January 15th, it was noted that the majority of the release point excavation and the entire excavation in the shallow excavation had been filled with water. However, no sheen or other visible indications of hydrocarbons were observed. The source of the water was from completion operations being conducted on a nearby drilling pad located 300 feet to the north. The person in charge of the equipment was contacted and made arrangements to remove the water. Also a sample of the water was collected and sent to PBEL. The results of the analysis found chlorides in the water to be 96.3 mg/L.

On January 25<sup>th</sup> it was determined the site had dried out sufficiently to excavate the sidewall areas and to sample the release point excavation. At the same time, 60 cubic yards of soil were transported to Sundance for disposal. This was done to reduce the potential of the soil being washed onto the site if rainfall occurred. Also, the amount to be transported was exactly three truckloads. Upon arrival on January 26<sup>th</sup>, the release point excavation was observed to had been backfilled with sediment due to the off-site release of water and had to be cleaned out. Upon completion of this and excavation of the center, SE & NE side walls, samples were collected and sent to PBEL to be analyzed for PH, BTEX and Chlorides. The results are as follows:

Summary of Analytical Results From 01/26/18 Sampling Event Total Petroleum Hydrocarbons - [TPH (mg/kg)] & Chlorides (mg/kg)							
Sample #	Depth (ft)	Date	TPH C6-C12	TPH >C12-C28	TPH >C28-C35	Total TPH	Chlorides
Release Point NW	1	1/26/18	ND	ND	ND	ND	13.8
Release Point NW	3	1/26/18	ND	ND	ND	ND	1.95
Release Point NW	5	1/26/18	ND	ND	ND	ND	332
Release Point NW	7	1/26/18	ND	ND	ND	ND	456
Release Point SW	1	1/26/18	ND	ND	ND	ND	56.7
Release Point SW	3	1/26/18	ND	ND	ND	ND	ND
Release Point SW	5	1/26/18	ND	ND	ND	ND	14.8
Release Point SW	7	1/26/18	ND	ND	ND	ND	119
Release Point Bot	8	1/26/18	ND	ND	ND	ND	11.6
East End Center	1.5	1/26/18	ND	ND	ND	ND	ND
<b>W Wall N Side</b>	1.5	1/26/18	501	1220	206	<b>1920</b>	19.4
E Wall, S Side	1	1/26/18	ND	ND	ND	ND	ND

\* ND = Non-Detect

Release Point NW = North Wall, Release Point SW = South Wall

Bold Red = TPH Above Regulatory Threshold Levels of 500 mg/kg

Summary of Analytical Results for BTEX (mg/kg) From 01/26/18 Sampling Event							
Sample #	Depth (ft)	Date	Benzene	Toluene	Ethylbenzene	Xylene (p/m)	Xylene (o)
Release Point NW	1	1/26/18	ND	ND	ND	ND	ND
Release Point NW	3	1/26/18	ND	ND	ND	ND	ND
Release Point NW	5	1/26/18	ND	ND	ND	ND	ND
Release Point NW	7	1/26/18	ND	ND	ND	ND	ND
Release Point SW	1	1/26/18	ND	ND	ND	ND	ND

Summary of Analytical Results for BTEX (mg/kg) From 01/26/18 Sampling Event							
Sample #	Depth (ft)	Date	Benzene	Toluene	Ethylbenzene	Xylene (p/m)	Xylene (o)
Release Point SW	3	1/26/18	ND	ND	ND	ND	ND
Release Point SW	5	1/26/18	ND	ND	ND	ND	ND
Release Point SW	7	1/26/18	ND	ND	ND	ND	ND
Release Point Bot	8	1/26/18	ND	ND	ND	ND	ND
East End Center	1.5	1/26/18	ND	ND	ND	ND	ND
W Wall N Side	1.5	1/26/18	0.583	0.315	1.74	0.740	0.493
E Wall, S Side	1	1/26/18	ND	ND	ND	ND	ND

\* ND = Non-Detect

Release Point NW = North Wall, Release Point SW = South Wall

The results of the analyses indicated the west section north side wall was still elevated. On February 6<sup>th</sup> this area was excavated an additional two feet north and resampled and sent PBEL to be analyzed for TPH, BTEX, and Chlorides. The results are as follows:

Summary of Analytical Results From 2/6/18 Sampling Event Total Petroleum Hydrocarbons - [TPH (mg/kg)] & Chlorides (mg/kg)							
Sample #	Depth (ft)	Date	TPH C6-C12	TPH >C12-C28	TPH >C28-C35	Total TPH	Chlorides
W Wall N Side	1.5	2/6/18	ND	ND	ND	ND	ND

Summary of Analytical Results for BTEX (mg/kg) From 28/6/18 Sampling Event							
Sample #	Depth (ft)	Date	Benzene	Toluene	Ethylbenzene	Xylene (p/m)	Xylene (o)
W Wall N Side	1.5	1/26/18	ND	ND	ND	ND	ND

## Conclusion

Based upon all of the data, even though the normal process of assessment and delineation was not practicable for this site, the activities performed did indicate that the release was successfully mitigated and is now awaiting backfill pending approval from NMOCD.

Supportive documentation for the assessment is provided as follows:

Annotated Aerial Image ..... Attachment A  
Groundwater Data ..... Attachment B  
Laboratory Analytical Data..... Attachment C  
Copies of Disposal Tickets ..... Attachment D  
Photograph Log ..... Attachment E

Thank you for your assistance on this matter. Should you have any questions, require additional information, or have any additional stipulations for this site, me at (432) 631-3757 (cell) or via email at [fred@etechenv.com](mailto:fred@etechenv.com).

Respectfully:

  
Fred Holmes  
Senior Project Manager

Attachment A

Annotated Aerial Image



## Attachment B

### Groundwater Data





# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water
















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

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

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD																	
POD Number	Code	Sub-basin	County	Q Q Q						X	Y	Distance	DepthWell	DepthWater	Water Column		
		64	16	4	Sec	Tws	Rng										
<a href="#">L 00803 POD3</a>		L	LE	3	2	4	10	14S	38E	679188	3665806*		283	195			
<a href="#">L 00803 POD3</a>	R	L	LE	3	2	4	10	14S	38E	679188	3665806*		283	195			
<a href="#">L 00749 POD2</a>		L	LE	1	4	2	10	14S	38E	679180	3666408*		362	180			
<a href="#">L 00749 POD2</a>	R	L	LE	1	4	2	10	14S	38E	679180	3666408*		362	180			
<a href="#">L 03218</a>	R	L	LE	3	3	3	11	14S	38E	679597	3665411*		838	100	84	16	
<a href="#">L 03218 POD2</a>		L	LE	3	3	3	11	14S	38E	679636	3665438		843	230	100	130	
<a href="#">L 00719 POD3</a>		L	LE				1	10	14S	38E	678276	3666488*		899	211	70	141
<a href="#">L 00719 POD3</a>	R	L	LE				1	10	14S	38E	678276	3666488*		899	211	70	141
<a href="#">L 00765</a>		L	LE	1	1	1	14	14S	38E	679605	3665209*		1008	152	58	94	
<a href="#">L 01364</a>		L	LE	1	1	3	10	14S	38E	677982	3665984*		1090	85	50	35	
<a href="#">L 11322</a>		L	LE	1	1	3	10	14S	38E	677982	3665984		1090	240			
<a href="#">L 00521</a>		L	LE	2	2	2	09	14S	38E	677764	3666781*		1489	145			
<a href="#">L 00521</a>	R	L	LE	2	2	2	09	14S	38E	677764	3666781*		1489	145			
<a href="#">L 00521 S</a>		L	LE	3	2	2	09	14S	38E	677564	3666581*		1591	165			
<a href="#">L 00521 S</a>	R	L	LE	3	2	2	09	14S	38E	677564	3666581*		1591	165			

Average Depth to Water: 72 feet

Minimum Depth: 50 feet

Maximum Depth: 100 feet

**Record Count:** 15

**Basin/County Search:**

County: Lea

**UTM NAD83 Radius Search (in meters):**

Easting (X): 679069,35

Northing (Y): 3666063

Radius: 1650

\*UTM location was derived from PLSS - see Help

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

1/5/18 1:46 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



## Attachment C

### Laboratory Analytical Data

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



# Analytical Report

**Prepared for:**

Fred Holmes  
E Tech Environmental & Safety Solutions, Inc.  
13000 West County Road 100  
Odessa, TX 79765

Project: Stakeholder Midstream

Project Number: 9021

Location: CR 138, NM

Lab Order Number: 8A09008



**NELAP/TCEQ # T104704516-16-7**

Report Date: 01/11/18

E Tech Environmental & Safety Solutions, Inc.  
13000 West County Road 100  
Odessa TX, 79765

Project: Stakeholder Midstream  
Project Number: 9021  
Project Manager: Fred Holmes

Fax: (432) 563-2213

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
East Middle 1'	8A09008-01	Soil	01/05/18 15:30	01-09-2018 10:00
Center Middle 1'	8A09008-02	Soil	01/05/18 15:35	01-09-2018 10:00
West Middle 1'	8A09008-03	Soil	01/05/18 15:39	01-09-2018 10:00
Wall, West End North Side 1'	8A09008-04	Soil	01/05/18 15:43	01-09-2018 10:00
Wall, West End South Side 1'	8A09008-05	Soil	01/05/18 15:47	01-09-2018 10:00
Wall, East End South Side 1'	8A09008-06	Soil	01/05/18 15:53	01-09-2018 10:00
Wall, East End North Side 1'	8A09008-07	Soil	01/05/18 15:56	01-09-2018 10:00
Release Point 8'	8A09008-08	Soil	01/05/18 17:30	01-09-2018 10:00

PBELAB staff was advised by the client on 01/10/18 to add Chlorides to all samples and move the analysis to a rush turn around time.

E Tech Environmental & Safety Solutions, Inc.  
13000 West County Road 100  
Odessa TX, 79765

Project: Stakeholder Midstream  
Project Number: 9021  
Project Manager: Fred Holmes

Fax: (432) 563-2213

**East Middle 1'**  
**8A09008-01 (Soil)**

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

**Organics by GC**

<b>Benzene</b>	<b>1.86</b>	0.0581	mg/kg dry	50	P8A1005	01/10/18	01/10/18	EPA 8021B
<b>Toluene</b>	<b>14.5</b>	0.116	mg/kg dry	50	P8A1005	01/10/18	01/10/18	EPA 8021B
<b>Ethylbenzene</b>	<b>36.2</b>	0.116	mg/kg dry	100	P8A1005	01/10/18	01/10/18	EPA 8021B
<b>Xylene (p/m)</b>	<b>13.5</b>	0.116	mg/kg dry	50	P8A1005	01/10/18	01/10/18	EPA 8021B
<b>Xylene (o)</b>	<b>7.37</b>	0.0581	mg/kg dry	50	P8A1005	01/10/18	01/10/18	EPA 8021B
<i>Surrogate: 4-Bromofluorobenzene</i>		103 %		75-125	P8A1005	01/10/18	01/10/18	EPA 8021B
<i>Surrogate: 1,4-Difluorobenzene</i>		91.8 %		75-125	P8A1005	01/10/18	01/10/18	EPA 8021B

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>36.8</b>	1.16	mg/kg dry	1	P8A1007	01/10/18	01/11/18	EPA 300.0
<b>% Moisture</b>	<b>14.0</b>	0.1	%	1	P8A1001	01/10/18	01/10/18	ASTM D2216

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>1100</b>	291	mg/kg dry	10	P8A0913	01/09/18	01/09/18	TPH 8015M
<b>&gt;C12-C28</b>	<b>3770</b>	291	mg/kg dry	10	P8A0913	01/09/18	01/09/18	TPH 8015M
<b>&gt;C28-C35</b>	<b>718</b>	291	mg/kg dry	10	P8A0913	01/09/18	01/09/18	TPH 8015M
<i>Surrogate: 1-Chlorooctane</i>		129 %		70-130	P8A0913	01/09/18	01/09/18	TPH 8015M
<i>Surrogate: o-Terphenyl</i>		114 %		70-130	P8A0913	01/09/18	01/09/18	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>5590</b>	291	mg/kg dry	10	[CALC]	01/09/18	01/09/18	calc

E Tech Environmental & Safety Solutions, Inc.  
13000 West County Road 100  
Odessa TX, 79765

Project: Stakeholder Midstream  
Project Number: 9021  
Project Manager: Fred Holmes

Fax: (432) 563-2213

**Center Middle 1'**  
**8A09008-02 (Soil)**

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

**Organics by GC**

Benzene	ND	0.0222	mg/kg dry	20	P8A1005	01/10/18	01/11/18	EPA 8021B	
<b>Toluene</b>	<b>0.0836</b>	0.0444	mg/kg dry	20	P8A1005	01/10/18	01/11/18	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.101</b>	0.0222	mg/kg dry	20	P8A1005	01/10/18	01/11/18	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.0462</b>	0.0444	mg/kg dry	20	P8A1005	01/10/18	01/11/18	EPA 8021B	
Xylene (o)	ND	0.0222	mg/kg dry	20	P8A1005	01/10/18	01/11/18	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		<i>81.3 %</i>	<i>75-125</i>		<i>P8A1005</i>	<i>01/10/18</i>	<i>01/11/18</i>	<i>EPA 8021B</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>95.9 %</i>	<i>75-125</i>		<i>P8A1005</i>	<i>01/10/18</i>	<i>01/11/18</i>	<i>EPA 8021B</i>	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	ND	1.11	mg/kg dry	1	P8A1007	01/10/18	01/11/18	EPA 300.0	
<b>% Moisture</b>	<b>10.0</b>	0.1	%	1	P8A1001	01/10/18	01/10/18	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	27.8	mg/kg dry	1	P8A0913	01/09/18	01/09/18	TPH 8015M	
<b>&gt;C12-C28</b>	<b>121</b>	27.8	mg/kg dry	1	P8A0913	01/09/18	01/09/18	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P8A0913	01/09/18	01/09/18	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		<i>97.9 %</i>	<i>70-130</i>		<i>P8A0913</i>	<i>01/09/18</i>	<i>01/09/18</i>	<i>TPH 8015M</i>	
<i>Surrogate: o-Terphenyl</i>		<i>104 %</i>	<i>70-130</i>		<i>P8A0913</i>	<i>01/09/18</i>	<i>01/09/18</i>	<i>TPH 8015M</i>	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>121</b>	27.8	mg/kg dry	1	[CALC]	01/09/18	01/09/18	calc	

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13000 West County Road 100  
Odessa TX, 79765

Project: Stakeholder Midstream  
Project Number: 9021  
Project Manager: Fred Holmes

Fax: (432) 563-2213

**West Middle 1'**  
**8A09008-03 (Soil)**

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

**Organics by GC**

Benzene	ND	0.0217	mg/kg dry	20	P8A1005	01/10/18	01/10/18	EPA 8021B
Toluene	0.0687	0.0435	mg/kg dry	20	P8A1005	01/10/18	01/10/18	EPA 8021B
Ethylbenzene	0.160	0.0217	mg/kg dry	20	P8A1005	01/10/18	01/10/18	EPA 8021B
Xylene (p/m)	0.0617	0.0435	mg/kg dry	20	P8A1005	01/10/18	01/10/18	EPA 8021B
Xylene (o)	0.0261	0.0217	mg/kg dry	20	P8A1005	01/10/18	01/10/18	EPA 8021B
Surrogate: 4-Bromofluorobenzene		114 %	75-125		P8A1005	01/10/18	01/10/18	EPA 8021B
Surrogate: 1,4-Difluorobenzene		105 %	75-125		P8A1005	01/10/18	01/10/18	EPA 8021B

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	ND	1.09	mg/kg dry	1	P8A1007	01/10/18	01/11/18	EPA 300.0
% Moisture	8.0	0.1	%	1	P8A1001	01/10/18	01/10/18	ASTM D2216

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	27.2	mg/kg dry	1	P8A0913	01/09/18	01/10/18	TPH 8015M
>C12-C28	68.8	27.2	mg/kg dry	1	P8A0913	01/09/18	01/10/18	TPH 8015M
>C28-C35	ND	27.2	mg/kg dry	1	P8A0913	01/09/18	01/10/18	TPH 8015M
Surrogate: 1-Chlorooctane		103 %	70-130		P8A0913	01/09/18	01/10/18	TPH 8015M
Surrogate: o-Terphenyl		107 %	70-130		P8A0913	01/09/18	01/10/18	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	68.8	27.2	mg/kg dry	1	[CALC]	01/09/18	01/10/18	calc



E Tech Environmental & Safety Solutions, Inc.  
13000 West County Road 100  
Odessa TX, 79765

Project: Stakeholder Midstream  
Project Number: 9021  
Project Manager: Fred Holmes

Fax: (432) 563-2213

**Wall, West End North Side 1'**  
**8A09008-04 (Soil)**

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

**Organics by GC**

<b>Benzene</b>	<b>0.0499</b>	0.0225	mg/kg dry	20	P8A1005	01/10/18	01/10/18	EPA 8021B	
<b>Toluene</b>	<b>0.240</b>	0.0449	mg/kg dry	20	P8A1005	01/10/18	01/10/18	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.700</b>	0.0225	mg/kg dry	20	P8A1005	01/10/18	01/10/18	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.243</b>	0.0449	mg/kg dry	20	P8A1005	01/10/18	01/10/18	EPA 8021B	
<b>Xylene (o)</b>	<b>0.107</b>	0.0225	mg/kg dry	20	P8A1005	01/10/18	01/10/18	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		86.4 %		75-125	P8A1005	01/10/18	01/10/18	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		109 %		75-125	P8A1005	01/10/18	01/10/18	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>5.70</b>	1.12	mg/kg dry	1	P8A1007	01/10/18	01/11/18	EPA 300.0	
<b>% Moisture</b>	<b>11.0</b>	0.1	%	1	P8A1001	01/10/18	01/10/18	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>107</b>	28.1	mg/kg dry	1	P8A0913	01/09/18	01/10/18	TPH 8015M	
<b>&gt;C12-C28</b>	<b>1030</b>	28.1	mg/kg dry	1	P8A0913	01/09/18	01/10/18	TPH 8015M	
<b>&gt;C28-C35</b>	<b>189</b>	28.1	mg/kg dry	1	P8A0913	01/09/18	01/10/18	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		122 %		70-130	P8A0913	01/09/18	01/10/18	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		126 %		70-130	P8A0913	01/09/18	01/10/18	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>1330</b>	28.1	mg/kg dry	1	[CALC]	01/09/18	01/10/18	calc	

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Odessa TX, 79765

Project: Stakeholder Midstream  
Project Number: 9021  
Project Manager: Fred Holmes

Fax: (432) 563-2213

**Wall, West End South Side 1'**  
**8A09008-05 (Soil)**

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

**Organics by GC**

<b>Benzene</b>	<b>0.0609</b>	0.0217	mg/kg dry	20	P8A1005	01/10/18	01/10/18	EPA 8021B	
<b>Toluene</b>	<b>0.132</b>	0.0435	mg/kg dry	20	P8A1005	01/10/18	01/10/18	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.448</b>	0.0217	mg/kg dry	20	P8A1005	01/10/18	01/10/18	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.168</b>	0.0435	mg/kg dry	20	P8A1005	01/10/18	01/10/18	EPA 8021B	
<b>Xylene (o)</b>	<b>0.0937</b>	0.0217	mg/kg dry	20	P8A1005	01/10/18	01/10/18	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		105 %	75-125		P8A1005	01/10/18	01/10/18	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		83.6 %	75-125		P8A1005	01/10/18	01/10/18	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	ND	1.09	mg/kg dry	1	P8A1007	01/10/18	01/11/18	EPA 300.0	
% Moisture	<b>8.0</b>	0.1	%	1	P8A1001	01/10/18	01/10/18	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>28.2</b>	27.2	mg/kg dry	1	P8A0913	01/09/18	01/10/18	TPH 8015M	
<b>&gt;C12-C28</b>	<b>99.8</b>	27.2	mg/kg dry	1	P8A0913	01/09/18	01/10/18	TPH 8015M	
<b>&gt;C28-C35</b>	<b>ND</b>	27.2	mg/kg dry	1	P8A0913	01/09/18	01/10/18	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		118 %	70-130		P8A0913	01/09/18	01/10/18	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		119 %	70-130		P8A0913	01/09/18	01/10/18	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>128</b>	27.2	mg/kg dry	1	[CALC]	01/09/18	01/10/18	calc	

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Project Number: 9021  
Project Manager: Fred Holmes

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**Wall, East End South Side 1'**  
**8A09008-06 (Soil)**

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

**Organics by GC**

<b>Benzene</b>	<b>0.165</b>	0.0217	mg/kg dry	20	P8A1005	01/10/18	01/10/18	EPA 8021B
<b>Toluene</b>	<b>2.05</b>	0.0435	mg/kg dry	20	P8A1005	01/10/18	01/10/18	EPA 8021B
<b>Ethylbenzene</b>	<b>7.80</b>	0.0217	mg/kg dry	20	P8A1005	01/10/18	01/10/18	EPA 8021B
<b>Xylene (p/m)</b>	<b>2.87</b>	0.0435	mg/kg dry	20	P8A1005	01/10/18	01/10/18	EPA 8021B
<b>Xylene (o)</b>	<b>1.71</b>	0.0217	mg/kg dry	20	P8A1005	01/10/18	01/10/18	EPA 8021B
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>116 %</i>	<i>75-125</i>		<i>P8A1005</i>	<i>01/10/18</i>	<i>01/10/18</i>	<i>EPA 8021B</i>
<i>Surrogate: 1,4-Difluorobenzene</i>		<i>85.5 %</i>	<i>75-125</i>		<i>P8A1005</i>	<i>01/10/18</i>	<i>01/10/18</i>	<i>EPA 8021B</i>

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>14.2</b>	1.09	mg/kg dry	1	P8A1007	01/10/18	01/11/18	EPA 300.0
<b>% Moisture</b>	<b>8.0</b>	0.1	%	1	P8A1001	01/10/18	01/10/18	ASTM D2216

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>339</b>	27.2	mg/kg dry	1	P8A0913	01/09/18	01/10/18	TPH 8015M
<b>&gt;C12-C28</b>	<b>1600</b>	27.2	mg/kg dry	1	P8A0913	01/09/18	01/10/18	TPH 8015M
<b>&gt;C28-C35</b>	<b>277</b>	27.2	mg/kg dry	1	P8A0913	01/09/18	01/10/18	TPH 8015M
<i>Surrogate: 1-Chlorooctane</i>		<i>127 %</i>	<i>70-130</i>		<i>P8A0913</i>	<i>01/09/18</i>	<i>01/10/18</i>	<i>TPH 8015M</i>
<i>Surrogate: o-Terphenyl</i>		<i>123 %</i>	<i>70-130</i>		<i>P8A0913</i>	<i>01/09/18</i>	<i>01/10/18</i>	<i>TPH 8015M</i>
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>2210</b>	27.2	mg/kg dry	1	[CALC]	01/09/18	01/10/18	calc

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Project Manager: Fred Holmes

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**Wall, East End North Side 1'**  
**8A09008-07 (Soil)**

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

**Organics by GC**

Benzene	ND	0.0233	mg/kg dry	20	P8A1005	01/10/18	01/10/18	EPA 8021B	
<b>Toluene</b>	<b>0.109</b>	0.0465	mg/kg dry	20	P8A1005	01/10/18	01/10/18	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.395</b>	0.0233	mg/kg dry	20	P8A1005	01/10/18	01/10/18	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.125</b>	0.0465	mg/kg dry	20	P8A1005	01/10/18	01/10/18	EPA 8021B	
<b>Xylene (o)</b>	<b>0.100</b>	0.0233	mg/kg dry	20	P8A1005	01/10/18	01/10/18	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		80.2 %		75-125	P8A1005	01/10/18	01/10/18	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		85.6 %		75-125	P8A1005	01/10/18	01/10/18	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>51.7</b>	1.16	mg/kg dry	1	P8A1007	01/10/18	01/11/18	EPA 300.0	
<b>% Moisture</b>	<b>14.0</b>	0.1	%	1	P8A1001	01/10/18	01/10/18	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	29.1	mg/kg dry	1	P8A0913	01/09/18	01/10/18	TPH 8015M	
<b>&gt;C12-C28</b>	<b>71.2</b>	29.1	mg/kg dry	1	P8A0913	01/09/18	01/10/18	TPH 8015M	
>C28-C35	ND	29.1	mg/kg dry	1	P8A0913	01/09/18	01/10/18	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		103 %		70-130	P8A0913	01/09/18	01/10/18	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		108 %		70-130	P8A0913	01/09/18	01/10/18	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>71.2</b>	29.1	mg/kg dry	1	[CALC]	01/09/18	01/10/18	calc	

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Project: Stakeholder Midstream  
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Project Manager: Fred Holmes

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**Release Point 8'**  
**8A09008-08 (Soil)**

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

**Organics by GC**

<b>Benzene</b>	<b>0.342</b>	0.0225	mg/kg dry	20	P8A1005	01/10/18	01/10/18	EPA 8021B	
<b>Toluene</b>	<b>3.11</b>	0.0449	mg/kg dry	20	P8A1005	01/10/18	01/10/18	EPA 8021B	
<b>Ethylbenzene</b>	<b>8.27</b>	0.0225	mg/kg dry	20	P8A1005	01/10/18	01/10/18	EPA 8021B	
<b>Xylene (p/m)</b>	<b>2.91</b>	0.0449	mg/kg dry	20	P8A1005	01/10/18	01/10/18	EPA 8021B	
<b>Xylene (o)</b>	<b>1.68</b>	0.0225	mg/kg dry	20	P8A1005	01/10/18	01/10/18	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		67.6 %		75-125	P8A1005	01/10/18	01/10/18	EPA 8021B	S-GC
<i>Surrogate: 4-Bromofluorobenzene</i>		82.3 %		75-125	P8A1005	01/10/18	01/10/18	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>159</b>	1.12	mg/kg dry	1	P8A1007	01/10/18	01/11/18	EPA 300.0	
<b>% Moisture</b>	<b>11.0</b>	0.1	%	1	P8A1001	01/10/18	01/10/18	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>841</b>	140	mg/kg dry	5	P8A0913	01/09/18	01/10/18	TPH 8015M	
<b>&gt;C12-C28</b>	<b>3380</b>	140	mg/kg dry	5	P8A0913	01/09/18	01/10/18	TPH 8015M	
<b>&gt;C28-C35</b>	<b>622</b>	140	mg/kg dry	5	P8A0913	01/09/18	01/10/18	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		122 %		70-130	P8A0913	01/09/18	01/10/18	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		122 %		70-130	P8A0913	01/09/18	01/10/18	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>4850</b>	140	mg/kg dry	5	[CALC]	01/09/18	01/10/18	calc	

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Project: Stakeholder Midstream  
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**Organics by GC - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P8A1005 - General Preparation (GC)**

**Blank (P8A1005-BLK1)**

Prepared & Analyzed: 01/10/18

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.0673		"	0.0600		112	75-125			
Surrogate: 1,4-Difluorobenzene	0.0577		"	0.0600		96.2	75-125			

**LCS (P8A1005-BS1)**

Prepared & Analyzed: 01/10/18

Benzene	0.0888	0.00100	mg/kg wet	0.100		88.8	70-130			
Toluene	0.0975	0.00200	"	0.100		97.5	70-130			
Ethylbenzene	0.113	0.00100	"	0.100		113	70-130			
Xylene (p/m)	0.208	0.00200	"				70-130			
Xylene (o)	0.104	0.00100	"				70-130			
Surrogate: 1,4-Difluorobenzene	0.0557		"	0.0600		92.9	75-125			
Surrogate: 4-Bromofluorobenzene	0.0597		"	0.0600		99.6	75-125			

**LCS Dup (P8A1005-BSD1)**

Prepared & Analyzed: 01/10/18

Benzene	0.0925	0.00100	mg/kg wet	0.100		92.5	70-130	4.11	20	
Toluene	0.101	0.00200	"	0.100		101	70-130	3.59	20	
Ethylbenzene	0.116	0.00100	"	0.100		116	70-130	2.64	20	
Xylene (p/m)	0.217	0.00200	"				70-130		20	
Xylene (o)	0.106	0.00100	"				70-130		20	
Surrogate: 4-Bromofluorobenzene	0.0657		"	0.0600		110	75-125			
Surrogate: 1,4-Difluorobenzene	0.0528		"	0.0600		88.0	75-125			

**Calibration Blank (P8A1005-CCB1)**

Prepared & Analyzed: 01/10/18

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.0708		"	0.0600		118	75-125			
Surrogate: 1,4-Difluorobenzene	0.0567		"	0.0600		94.4	75-125			



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**Organics by GC - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P8A1005 - General Preparation (GC)**

**Calibration Check (P8A1005-CCV1)**

Prepared & Analyzed: 01/10/18

Benzene	0.109	0.00100	mg/kg wet	0.100		109	80-120			
Toluene	0.118	0.00200	"	0.100		118	80-120			
Ethylbenzene	0.116	0.00100	"	0.100		116	80-120			
Xylene (p/m)	0.214	0.00200	"	0.200		107	80-120			
Xylene (o)	0.109	0.00100	"	0.100		109	80-120			
Surrogate: 1,4-Difluorobenzene	0.0566		"	0.0600		94.4	75-125			
Surrogate: 4-Bromofluorobenzene	0.0703		"	0.0600		117	75-125			

**Calibration Check (P8A1005-CCV2)**

Prepared & Analyzed: 01/10/18

Benzene	0.109	0.00100	mg/kg wet	0.100		109	80-120			
Toluene	0.114	0.00200	"	0.100		114	80-120			
Ethylbenzene	0.115	0.00100	"	0.100		115	80-120			
Xylene (p/m)	0.209	0.00200	"	0.200		105	80-120			
Xylene (o)	0.114	0.00100	"	0.100		114	80-120			
Surrogate: 1,4-Difluorobenzene	0.0634		"	0.0600		106	75-125			
Surrogate: 4-Bromofluorobenzene	0.0700		"	0.0600		117	75-125			

**Matrix Spike (P8A1005-MS1)**

Source: 8A09008-02

Prepared: 01/10/18 Analyzed: 01/11/18

Benzene	0.115	0.0222	mg/kg dry	0.111	ND	104	80-120			
Toluene	0.120	0.0444	"	0.111	0.0836	33.0	80-120			QM-05
Ethylbenzene	0.136	0.0222	"	0.111	0.101	31.8	80-120			QM-05
Xylene (p/m)	0.237	0.0444	"		0.0462		80-120			
Xylene (o)	0.101	0.0222	"		ND		80-120			
Surrogate: 1,4-Difluorobenzene	0.0606		"	0.0667		90.9	75-125			
Surrogate: 4-Bromofluorobenzene	0.0732		"	0.0667		110	75-125			

**Matrix Spike Dup (P8A1005-MSD1)**

Source: 8A09008-02

Prepared: 01/10/18 Analyzed: 01/11/18

Benzene	0.0973	0.0222	mg/kg dry	0.111	ND	87.6	80-120	16.9	20	
Toluene	0.129	0.0444	"	0.111	0.0836	40.8	80-120	21.1	20	QM-05
Ethylbenzene	0.131	0.0222	"	0.111	0.101	27.0	80-120	16.3	20	QM-05
Xylene (p/m)	0.259	0.0444	"		0.0462		80-120		20	
Xylene (o)	0.104	0.0222	"		ND		80-120		20	
Surrogate: 4-Bromofluorobenzene	0.0748		"	0.0667		112	75-125			
Surrogate: 1,4-Difluorobenzene	0.0601		"	0.0667		90.2	75-125			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch P8A1001 - *** DEFAULT PREP ***</b>										
<b>Blank (P8A1001-BLK1)</b>				Prepared & Analyzed: 01/10/18						
% Moisture	ND	0.1	%							
<b>Duplicate (P8A1001-DUP1)</b>				Source: 8A09009-01 Prepared & Analyzed: 01/10/18						
% Moisture	41.0	0.1	%		40.0			2.47	20	
<b>Batch P8A1007 - *** DEFAULT PREP ***</b>										
<b>Blank (P8A1007-BLK1)</b>				Prepared: 01/10/18 Analyzed: 01/11/18						
Chloride	ND	1.00	mg/kg wet							
<b>LCS (P8A1007-BS1)</b>				Prepared: 01/10/18 Analyzed: 01/11/18						
Chloride	389	1.00	mg/kg wet	400		97.3	80-120			
<b>LCS Dup (P8A1007-BSD1)</b>				Prepared: 01/10/18 Analyzed: 01/11/18						
Chloride	413	1.00	mg/kg wet	400		103	80-120	6.05	20	
<b>Duplicate (P8A1007-DUP1)</b>				Source: 8A09008-01 Prepared: 01/10/18 Analyzed: 01/11/18						
Chloride	41.9	1.16	mg/kg dry		36.8			12.9	20	
<b>Duplicate (P8A1007-DUP2)</b>				Source: 8A05003-07 Prepared: 01/10/18 Analyzed: 01/11/18						
Chloride	8060	27.5	mg/kg dry		8000			0.791	20	
<b>Matrix Spike (P8A1007-MS1)</b>				Source: 8A09008-01 Prepared: 01/10/18 Analyzed: 01/11/18						
Chloride	1280	1.16	mg/kg dry	1160	36.8	107	80-120			

E Tech Environmental & Safety Solutions, Inc.  
13000 West County Road 100  
Odessa TX, 79765

Project: Stakeholder Midstream  
Project Number: 9021  
Project Manager: Fred Holmes

Fax: (432) 563-2213

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P8A0913 - General Preparation (GC)**

**Blank (P8A0913-BLK1)**

Prepared & Analyzed: 01/09/18

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	124		"	100		124	70-130			
Surrogate: o-Terphenyl	65.0		"	50.0		130	70-130			

**LCS (P8A0913-BS1)**

Prepared & Analyzed: 01/09/18

C6-C12	876	25.0	mg/kg wet	1000		87.6	75-125			
>C12-C28	983	25.0	"	1000		98.3	75-125			
Surrogate: 1-Chlorooctane	116		"	100		116	70-130			
Surrogate: o-Terphenyl	61.5		"	50.0		123	70-130			

**LCS Dup (P8A0913-BSD1)**

Prepared & Analyzed: 01/09/18

C6-C12	919	25.0	mg/kg wet	1000		91.9	75-125	4.77	20	
>C12-C28	999	25.0	"	1000		99.9	75-125	1.62	20	
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	62.6		"	50.0		125	70-130			

**Calibration Blank (P8A0913-CCB1)**

Prepared & Analyzed: 01/09/18

C6-C12	11.5		mg/kg wet							
>C12-C28	22.7		"							
Surrogate: 1-Chlorooctane	121		"	100		121	70-130			
Surrogate: o-Terphenyl	63.1		"	50.0		126	70-130			

**Calibration Blank (P8A0913-CCB2)**

Prepared: 01/09/18 Analyzed: 01/10/18

C6-C12	13.3		mg/kg wet							
>C12-C28	22.8		"							
Surrogate: 1-Chlorooctane	124		"	100		124	70-130			
Surrogate: o-Terphenyl	64.7		"	50.0		129	70-130			

E Tech Environmental & Safety Solutions, Inc.  
13000 West County Road 100  
Odessa TX, 79765

Project: Stakeholder Midstream  
Project Number: 9021  
Project Manager: Fred Holmes

Fax: (432) 563-2213

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P8A0913 - General Preparation (GC)**

**Calibration Check (P8A0913-CCV1)**

Prepared & Analyzed: 01/09/18

C6-C12	915	25.0	mg/kg wet	1000		91.5	85-115			
>C12-C28	991	25.0	"	1000		99.1	85-115			
Surrogate: 1-Chlorooctane	128		"	100		128	70-130			
Surrogate: o-Terphenyl	57.1		"	50.0		114	70-130			

**Calibration Check (P8A0913-CCV2)**

Prepared: 01/09/18 Analyzed: 01/10/18

C6-C12	932	25.0	mg/kg wet	1000		93.2	85-115			
>C12-C28	978	25.0	"	1000		97.8	85-115			
Surrogate: 1-Chlorooctane	126		"	100		126	70-130			
Surrogate: o-Terphenyl	56.5		"	50.0		113	70-130			

**Calibration Check (P8A0913-CCV3)**

Prepared: 01/09/18 Analyzed: 01/10/18

C6-C12	994	25.0	mg/kg wet	1000		99.4	85-115			
>C12-C28	1070	25.0	"	1000		107	85-115			
Surrogate: 1-Chlorooctane	126		"	100		126	70-130			
Surrogate: o-Terphenyl	61.2		"	50.0		122	70-130			

**Matrix Spike (P8A0913-MS1)**

Source: 8A09007-02

Prepared: 01/09/18 Analyzed: 01/10/18

C6-C12	912	25.3	mg/kg dry	1010	11.6	89.1	75-125			
>C12-C28	1010	25.3	"	1010	9.74	98.9	75-125			
Surrogate: 1-Chlorooctane	127		"	101		126	70-130			
Surrogate: o-Terphenyl	63.8		"	50.5		126	70-130			

**Matrix Spike Dup (P8A0913-MSD1)**

Source: 8A09007-02

Prepared: 01/09/18 Analyzed: 01/10/18

C6-C12	920	25.3	mg/kg dry	1010	11.6	89.9	75-125	0.942	20	
>C12-C28	1030	25.3	"	1010	9.74	101	75-125	2.13	20	
Surrogate: 1-Chlorooctane	128		"	101		127	70-130			
Surrogate: o-Terphenyl	62.7		"	50.5		124	70-130			

### Notes and Definitions

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

Report Approved By:



Date: 1/11/2018

Brent Barron, Laboratory Director/Technical Director

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

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

Phone: 432-686-7235

Project Name: *Stakeholder Midstream*

Project #: 9021 Project Loc: CR 138, N

Area: PO#:

Project Manager: Wally Inverett, ITTCA 110-065  
 Company Name: Etech Environmental & Safety Solutions, Inc.  
 Company Address: 13000 West County Road 100

City/State/Zip: Odessa, Texas 79765

Phone: 432-563-2200 Fax: 432-563-2213

Sampler Signature: Wally W

email: *Fred* @etechenv.com

Report Format: STANDARD: ☒TRRP: ☐NPDES: ☐

•

(lab use only)  
ORDER # 4 A69008

### Analyze For:

10

2

(lab use only)		Preservation & # of Containers										Matrix								TOTAL :						TCLP:		
ORDER #																												
LAB # (lab use only)	FIELD CODE	Start Depth	End Depth	Date Sampled	Time Sampled	No. of Containers	Ice	HNO <sub>3</sub>	HCl	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None	Dther (Specify)	OW=Drinking Water SL=Sludge GW = Groundwater S=Soli/Solid NP=Non-PotableSpecify Other	TPH: 418.1 8015M 1005 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO <sub>4</sub> , CO <sub>3</sub> , HCO <sub>3</sub> )	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semi volatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.D.R.M.	Chlorides	RUSH TAT(Pre-Schedule) 24, 48, 72 hrs	STANDARD TAT
01	East middle		1 ft	1-5-18	1530	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Soil	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
02	Center middle				1535	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
03	West middle				1539	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
04	Wall, West End North Side				1543	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
05	Wall, West End South Side				1547	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
06	Wall, East End South Side				1553	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
07	Wall, East End North Side				1556	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
08	Release Point	8 ft			1730	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

**Special Instructions:**

Laboratory Comments:

**Sample Containers Intact?**

**VOLs Free of Headspace**  
Custody seats on container

Customized seals on cooler's

### Sample Hand Delivered

SAR by Sampler/Client Rep.

**Sar by Counter?** UPS

10

Temperature Upon Receipt

1. The first step in the process is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the problem.



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



# Analytical Report

**Prepared for:**

Fred Holmes  
E Tech Environmental & Safety Solutions, Inc.  
13000 West County Road 100  
Odessa, TX 79765

Project: Stakeholder Midstream

Project Number: 9021

Location: Pollos Hermanos

Lab Order Number: 8A17011



**NELAP/TCEQ # T104704516-16-7**

Report Date: 01/18/18

E Tech Environmental & Safety Solutions, Inc.  
13000 West County Road 100  
Odessa TX, 79765

Project: Stakeholder Midstream  
Project Number: 9021  
Project Manager: Fred Holmes

Fax: (432) 563-2213

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
1	8A17011-01	Water	01/15/18 10:30	01-17-2018 13:30

E Tech Environmental & Safety Solutions, Inc.  
13000 West County Road 100  
Odessa TX, 79765

Project: Stakeholder Midstream  
Project Number: 9021  
Project Manager: Fred Holmes

Fax: (432) 563-2213

**1**

**8A17011-01 (Water)**

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

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	96.3	5.00	mg/L	10	P8A1708	01/17/18	01/18/18	EPA 300.0	
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E Tech Environmental & Safety Solutions, Inc.  
13000 West County Road 100  
Odessa TX, 79765

Project: Stakeholder Midstream  
Project Number: 9021  
Project Manager: Fred Holmes

Fax: (432) 563-2213

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch P8A1708 - *** DEFAULT PREP ***</b>										
<b>Blank (P8A1708-BLK1)</b>				Prepared: 01/17/18 Analyzed: 01/18/18						
Chloride	ND	0.500	mg/L							
<b>LCS (P8A1708-BS1)</b>				Prepared: 01/17/18 Analyzed: 01/18/18						
Chloride	39.1	0.500	mg/L	40.0		97.8	85-115			
<b>LCS Dup (P8A1708-BSD1)</b>				Prepared: 01/17/18 Analyzed: 01/18/18						
Chloride	39.1	0.500	mg/L	40.0		97.8	85-115	0.00	20	
<b>Duplicate (P8A1708-DUP1)</b>				<b>Source: 8A17011-01</b>		Prepared: 01/17/18 Analyzed: 01/18/18				
Chloride	98.7	5.00	mg/L		96.3			2.39	20	
<b>Matrix Spike (P8A1708-MS1)</b>				<b>Source: 8A17011-01</b>		Prepared: 01/17/18 Analyzed: 01/18/18				
Chloride	198	5.00	mg/L	100	96.3	101	80-120			

E Tech Environmental & Safety Solutions, Inc.  
13000 West County Road 100  
Odessa TX, 79765

Project: Stakeholder Midstream  
Project Number: 9021  
Project Manager: Fred Holmes

Fax: (432) 563-2213

### Notes and Definitions

DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference  
LCS Laboratory Control Spike  
MS Matrix Spike  
Dup Duplicate

Report Approved By:



Date: 1/18/2018

Brent Barron, Laboratory Director/Technical Director

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

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Mia Holmes

Company Name: Etech Environmental & Safety Solutions, Inc.

Company Address: **13000 West County Road 100**

City/State/Zip: Odessa, Texas 79765

**Phone: 432-563-2200 Fax: 432-563-2213**

**Sampler Signature:**

email: kyou@eitechenv.com

Report Format STANDARD: ☒ TRRP: ☐ NPDES: ☐

Project Name: Stakeholder Analysis  
Project #: 9021 Project Loc: Pollo's Hern  
Area: \_\_\_\_\_ PO#: \_\_\_\_\_

Page 6 of 6

										(lab use only) ORDER # <b>6A17611</b>									
										<b>LAB # (lab use only)</b>									
										<b>FIELD CODE</b>									
										<b>Start Depth</b>									
										<b>End Depth</b>									
										<b>Date Sampled</b> <i>11/5/18 1030</i>									
										<b>Time Sampled</b>									
										<b>No. of Containers</b>									
										<b>Ice</b>									
										<b>HNO<sub>3</sub></b>									
										<b>HCl</b>									
										<b>H<sub>2</sub>SO<sub>4</sub></b>									
										<b>NaOH</b>									
										<b>Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub></b>									
										<b>None</b>									
										<b>Other (Specify)</b>									
										<b>DW=Drinking Water SL=Sludge</b>									
										<b>GW = Groundwater S=Soil/Solid</b>									
										<b>NP=Non-Potable Specify Other</b>									
										<b>TPH: 418.1 8015M 1005 1006</b>									
										<b>Cations (Ca, Mg, Na, K)</b>									
										<b>Anions (Cl, SO<sub>4</sub>, CO<sub>3</sub>, HCO<sub>3</sub>)</b>									
										<b>SAR / ESP / CEC</b>									
										<b>Metals: As Ag Ba Cd Cr Pb Hg Se</b>									
										<b>Volatiles</b>									
										<b>Semi volatiles</b>									
										<b>BTEX 8021B/5030 or BTEX 8260</b>									
										<b>RCl</b>									
										<b>N.O.R.M.</b>									
										<b>Chlorides</b>									
										<b>RUSH TAT(Pre-Schedule) 24, 48, 72 hrs</b>									
										<b>STANDARD TAT</b>									

**Special instructions:**

Laboratory Comments:

## Sample Containers: Inactive, VOCs Free of Headspace?

Custody seals on container(s)  
Custody seals on cooler(s)

**Sample Hand Delivered**

Sar by Sampler/Client Rep. ? N  
Sar by Courier? UPS DHL FedEx Lone Star

1945

[illegible]



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



# Analytical Report

**Prepared for:**

Fred Holmes  
E Tech Environmental & Safety Solutions, Inc.  
13000 West County Road 100  
Odessa, TX 79765

Project: Stakeholder Midstream

Project Number: 9021

Location: CR 138, NM

Lab Order Number: 8A31015



**NELAP/TCEQ # T104704516-17-8**

Report Date: 02/05/18

E Tech Environmental & Safety Solutions, Inc.  
13000 West County Road 100  
Odessa TX, 79765

Project: Stakeholder Midstream  
Project Number: 9021  
Project Manager: Fred Holmes

Fax: (432) 563-2213

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
East End Center 1.5'	8A31015-01	Soil	01/26/18 09:05	01-31-2018 11:42
West Wall North Side 1.5'	8A31015-02	Soil	01/26/18 09:20	01-31-2018 11:42
East Wall South Side 1.5'	8A31015-03	Soil	01/26/18 09:30	01-31-2018 11:42
Release Point (Bottom) 8'	8A31015-04	Soil	01/26/18 09:45	01-31-2018 11:42
Release Point N. Wall 1'	8A31015-05	Soil	01/26/18 10:00	01-31-2018 11:42
Release Point N. Wall 3'	8A31015-06	Soil	01/26/18 10:08	01-31-2018 11:42
Release Point N. Wall 5'	8A31015-07	Soil	01/26/18 10:15	01-31-2018 11:42
Release Point N. Wall 7'	8A31015-08	Soil	01/26/18 10:20	01-31-2018 11:42
Release Point S. Wall 1'	8A31015-09	Soil	01/26/18 10:33	01-31-2018 11:42
Release Point S. Wall 3'	8A31015-10	Soil	01/26/18 10:39	01-31-2018 11:42
Release Point S. Wall 5'	8A31015-11	Soil	01/26/18 10:45	01-31-2018 11:42
Release Point S. Wall 7'	8A31015-12	Soil	01/26/18 10:50	01-31-2018 11:42

E Tech Environmental & Safety Solutions, Inc.  
13000 West County Road 100  
Odessa TX, 79765

Project: Stakeholder Midstream  
Project Number: 9021  
Project Manager: Fred Holmes

Fax: (432) 563-2213

**East End Center 1.5'**

**8A31015-01 (Soil)**

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

**Organics by GC**

Benzene	ND	0.00115	mg/kg dry	1	P8A3115	01/31/18	02/01/18	EPA 8021B	
Toluene	ND	0.0115	mg/kg dry	1	P8A3115	01/31/18	02/01/18	EPA 8021B	
Ethylbenzene	ND	0.00575	mg/kg dry	1	P8A3115	01/31/18	02/01/18	EPA 8021B	
Xylene (p/m)	ND	0.0230	mg/kg dry	1	P8A3115	01/31/18	02/01/18	EPA 8021B	
Xylene (o)	ND	0.0115	mg/kg dry	1	P8A3115	01/31/18	02/01/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		162 %	75-125		P8A3115	01/31/18	02/01/18	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		124 %	75-125		P8A3115	01/31/18	02/01/18	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	ND	1.15	mg/kg dry	1	P8B0110	02/01/18	02/03/18	EPA 300.0	
% Moisture	13.0	0.1	%	1	P8B0501	02/05/18	02/05/18	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	28.7	mg/kg dry	1	P8B0105	02/01/18	02/01/18	TPH 8015M	
>C12-C28	ND	28.7	mg/kg dry	1	P8B0105	02/01/18	02/01/18	TPH 8015M	
>C28-C35	ND	28.7	mg/kg dry	1	P8B0105	02/01/18	02/01/18	TPH 8015M	
Surrogate: 1-Chlorooctane		105 %	70-130		P8B0105	02/01/18	02/01/18	TPH 8015M	
Surrogate: o-Terphenyl		116 %	70-130		P8B0105	02/01/18	02/01/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.7	mg/kg dry	1	[CALC]	02/01/18	02/01/18	calc	

E Tech Environmental & Safety Solutions, Inc.  
13000 West County Road 100  
Odessa TX, 79765

Project: Stakeholder Midstream  
Project Number: 9021  
Project Manager: Fred Holmes

Fax: (432) 563-2213

**West Wall North Side 1.5'**  
**8A31015-02 (Soil)**

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

**Organics by GC**

<b>Benzene</b>	<b>0.0583</b>	0.0217	mg/kg dry	20	P8A3115	01/31/18	02/01/18	EPA 8021B	
<b>Toluene</b>	<b>0.315</b>	0.217	mg/kg dry	20	P8A3115	01/31/18	02/01/18	EPA 8021B	
<b>Ethylbenzene</b>	<b>1.74</b>	0.109	mg/kg dry	20	P8A3115	01/31/18	02/01/18	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.740</b>	0.435	mg/kg dry	20	P8A3115	01/31/18	02/01/18	EPA 8021B	
<b>Xylene (o)</b>	<b>0.493</b>	0.217	mg/kg dry	20	P8A3115	01/31/18	02/01/18	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		87.3 %	75-125		P8A3115	01/31/18	02/01/18	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		102 %	75-125		P8A3115	01/31/18	02/01/18	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>19.4</b>	1.09	mg/kg dry	1	P8B0110	02/01/18	02/03/18	EPA 300.0	
<b>% Moisture</b>	<b>8.0</b>	0.1	%	1	P8B0501	02/05/18	02/05/18	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>501</b>	136	mg/kg dry	5	P8B0105	02/01/18	02/01/18	TPH 8015M	
<b>&gt;C12-C28</b>	<b>1220</b>	136	mg/kg dry	5	P8B0105	02/01/18	02/01/18	TPH 8015M	
<b>&gt;C28-C35</b>	<b>206</b>	136	mg/kg dry	5	P8B0105	02/01/18	02/01/18	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		97.0 %	70-130		P8B0105	02/01/18	02/01/18	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		98.4 %	70-130		P8B0105	02/01/18	02/01/18	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>1920</b>	136	mg/kg dry	5	[CALC]	02/01/18	02/01/18	calc	

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Odessa TX, 79765

Project: Stakeholder Midstream  
Project Number: 9021  
Project Manager: Fred Holmes

Fax: (432) 563-2213

**East Wall South Side 1.5'**  
**8A31015-03 (Soil)**

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

**Organics by GC**

Benzene	ND	0.00115	mg/kg dry	1	P8B0202	02/01/18	02/01/18	EPA 8021B	
Toluene	ND	0.0115	mg/kg dry	1	P8B0202	02/01/18	02/01/18	EPA 8021B	
Ethylbenzene	ND	0.00575	mg/kg dry	1	P8B0202	02/01/18	02/01/18	EPA 8021B	
Xylene (p/m)	ND	0.0230	mg/kg dry	1	P8B0202	02/01/18	02/01/18	EPA 8021B	
Xylene (o)	ND	0.0115	mg/kg dry	1	P8B0202	02/01/18	02/01/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.4 %	75-125		P8B0202	02/01/18	02/01/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		127 %	75-125		P8B0202	02/01/18	02/01/18	EPA 8021B	S-GC

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	ND	1.15	mg/kg dry	1	P8B0110	02/01/18	02/03/18	EPA 300.0	
% Moisture	13.0	0.1	%	1	P8B0501	02/05/18	02/05/18	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	28.7	mg/kg dry	1	P8B0105	02/01/18	02/01/18	TPH 8015M	
>C12-C28	ND	28.7	mg/kg dry	1	P8B0105	02/01/18	02/01/18	TPH 8015M	
>C28-C35	ND	28.7	mg/kg dry	1	P8B0105	02/01/18	02/01/18	TPH 8015M	
Surrogate: 1-Chlorooctane		91.2 %	70-130		P8B0105	02/01/18	02/01/18	TPH 8015M	
Surrogate: o-Terphenyl		96.4 %	70-130		P8B0105	02/01/18	02/01/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.7	mg/kg dry	1	[CALC]	02/01/18	02/01/18	calc	

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Odessa TX, 79765

Project: Stakeholder Midstream  
Project Number: 9021  
Project Manager: Fred Holmes

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**Release Point (Bottom) 8'**  
**8A31015-04 (Soil)**

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

**Organics by GC**

Benzene	ND	0.00115	mg/kg dry	1	P8B0202	02/01/18	02/01/18	EPA 8021B	
Toluene	ND	0.0115	mg/kg dry	1	P8B0202	02/01/18	02/01/18	EPA 8021B	
Ethylbenzene	ND	0.00575	mg/kg dry	1	P8B0202	02/01/18	02/01/18	EPA 8021B	
Xylene (p/m)	ND	0.0230	mg/kg dry	1	P8B0202	02/01/18	02/01/18	EPA 8021B	
Xylene (o)	ND	0.0115	mg/kg dry	1	P8B0202	02/01/18	02/01/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		73.9 %	75-125		P8B0202	02/01/18	02/01/18	EPA 8021B	S-GC
Surrogate: 4-Bromofluorobenzene		99.7 %	75-125		P8B0202	02/01/18	02/01/18	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	11.6	1.15	mg/kg dry	1	P8B0110	02/01/18	02/03/18	EPA 300.0	
% Moisture	13.0	0.1	%	1	P8B0501	02/05/18	02/05/18	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	28.7	mg/kg dry	1	P8B0105	02/01/18	02/01/18	TPH 8015M	
>C12-C28	70.4	28.7	mg/kg dry	1	P8B0105	02/01/18	02/01/18	TPH 8015M	
>C28-C35	ND	28.7	mg/kg dry	1	P8B0105	02/01/18	02/01/18	TPH 8015M	
Surrogate: 1-Chlorooctane		90.5 %	70-130		P8B0105	02/01/18	02/01/18	TPH 8015M	
Surrogate: o-Terphenyl		96.6 %	70-130		P8B0105	02/01/18	02/01/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	70.4	28.7	mg/kg dry	1	[CALC]	02/01/18	02/01/18	calc	

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Odessa TX, 79765

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Project Number: 9021  
Project Manager: Fred Holmes

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**Release Point N. Wall 1'**  
**8A31015-05 (Soil)**

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

**Organics by GC**

Benzene	ND	0.00106	mg/kg dry	1	P8B0202	02/01/18	02/01/18	EPA 8021B
Toluene	ND	0.0106	mg/kg dry	1	P8B0202	02/01/18	02/01/18	EPA 8021B
Ethylbenzene	ND	0.00532	mg/kg dry	1	P8B0202	02/01/18	02/01/18	EPA 8021B
Xylene (p/m)	ND	0.0213	mg/kg dry	1	P8B0202	02/01/18	02/01/18	EPA 8021B
Xylene (o)	ND	0.0106	mg/kg dry	1	P8B0202	02/01/18	02/01/18	EPA 8021B
Surrogate: 4-Bromofluorobenzene		119 %	75-125		P8B0202	02/01/18	02/01/18	EPA 8021B
Surrogate: 1,4-Difluorobenzene		84.4 %	75-125		P8B0202	02/01/18	02/01/18	EPA 8021B

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	13.8	1.06	mg/kg dry	1	P8B0110	02/01/18	02/03/18	EPA 300.0
% Moisture	6.0	0.1	%	1	P8B0501	02/05/18	02/05/18	ASTM D2216

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.6	mg/kg dry	1	P8B0105	02/01/18	02/01/18	TPH 8015M
>C12-C28	ND	26.6	mg/kg dry	1	P8B0105	02/01/18	02/01/18	TPH 8015M
>C28-C35	ND	26.6	mg/kg dry	1	P8B0105	02/01/18	02/01/18	TPH 8015M
Surrogate: 1-Chlorooctane		81.6 %	70-130		P8B0105	02/01/18	02/01/18	TPH 8015M
Surrogate: o-Terphenyl		87.4 %	70-130		P8B0105	02/01/18	02/01/18	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	02/01/18	02/01/18	calc

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Odessa TX, 79765

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Project Number: 9021  
Project Manager: Fred Holmes

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**Release Point N. Wall 3'**  
**8A31015-06 (Soil)**

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

**Organics by GC**

Benzene	ND	0.00116	mg/kg dry	1	P8B0202	02/01/18	02/01/18	EPA 8021B
Toluene	ND	0.0116	mg/kg dry	1	P8B0202	02/01/18	02/01/18	EPA 8021B
Ethylbenzene	ND	0.00581	mg/kg dry	1	P8B0202	02/01/18	02/01/18	EPA 8021B
Xylene (p/m)	ND	0.0233	mg/kg dry	1	P8B0202	02/01/18	02/01/18	EPA 8021B
Xylene (o)	ND	0.0116	mg/kg dry	1	P8B0202	02/01/18	02/01/18	EPA 8021B
Surrogate: 4-Bromofluorobenzene		116 %	75-125		P8B0202	02/01/18	02/01/18	EPA 8021B
Surrogate: 1,4-Difluorobenzene		85.0 %	75-125		P8B0202	02/01/18	02/01/18	EPA 8021B

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	1.95	1.16	mg/kg dry	1	P8B0110	02/01/18	02/03/18	EPA 300.0
% Moisture	14.0	0.1	%	1	P8B0501	02/05/18	02/05/18	ASTM D2216

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	29.1	mg/kg dry	1	P8B0105	02/01/18	02/01/18	TPH 8015M
>C12-C28	ND	29.1	mg/kg dry	1	P8B0105	02/01/18	02/01/18	TPH 8015M
>C28-C35	ND	29.1	mg/kg dry	1	P8B0105	02/01/18	02/01/18	TPH 8015M
Surrogate: 1-Chlorooctane		90.5 %	70-130		P8B0105	02/01/18	02/01/18	TPH 8015M
Surrogate: o-Terphenyl		96.8 %	70-130		P8B0105	02/01/18	02/01/18	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	29.1	mg/kg dry	1	[CALC]	02/01/18	02/01/18	calc



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Odessa TX, 79765

Project: Stakeholder Midstream  
Project Number: 9021  
Project Manager: Fred Holmes

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**Release Point N. Wall 5'**  
**8A31015-07 (Soil)**

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

**Organics by GC**

Benzene	ND	0.00110	mg/kg dry	1	P8B0202	02/01/18	02/01/18	EPA 8021B
Toluene	ND	0.0110	mg/kg dry	1	P8B0202	02/01/18	02/01/18	EPA 8021B
Ethylbenzene	ND	0.00549	mg/kg dry	1	P8B0202	02/01/18	02/01/18	EPA 8021B
Xylene (p/m)	ND	0.0220	mg/kg dry	1	P8B0202	02/01/18	02/01/18	EPA 8021B
Xylene (o)	ND	0.0110	mg/kg dry	1	P8B0202	02/01/18	02/01/18	EPA 8021B
Surrogate: 4-Bromofluorobenzene		114 %	75-125		P8B0202	02/01/18	02/01/18	EPA 8021B
Surrogate: 1,4-Difluorobenzene		94.5 %	75-125		P8B0202	02/01/18	02/01/18	EPA 8021B

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	332	5.49	mg/kg dry	5	P8B0110	02/01/18	02/03/18	EPA 300.0
% Moisture	9.0	0.1	%	1	P8B0501	02/05/18	02/05/18	ASTM D2216

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	27.5	mg/kg dry	1	P8B0105	02/01/18	02/01/18	TPH 8015M
>C12-C28	ND	27.5	mg/kg dry	1	P8B0105	02/01/18	02/01/18	TPH 8015M
>C28-C35	ND	27.5	mg/kg dry	1	P8B0105	02/01/18	02/01/18	TPH 8015M
Surrogate: 1-Chlorooctane		81.9 %	70-130		P8B0105	02/01/18	02/01/18	TPH 8015M
Surrogate: o-Terphenyl		87.7 %	70-130		P8B0105	02/01/18	02/01/18	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	02/01/18	02/01/18	calc

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13000 West County Road 100  
Odessa TX, 79765

Project: Stakeholder Midstream  
Project Number: 9021  
Project Manager: Fred Holmes

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**Release Point N. Wall 7'**  
**8A31015-08 (Soil)**

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

**Organics by GC**

Benzene	ND	0.00112	mg/kg dry	1	P8B0202	02/01/18	02/01/18	EPA 8021B
Toluene	ND	0.0112	mg/kg dry	1	P8B0202	02/01/18	02/01/18	EPA 8021B
Ethylbenzene	ND	0.00562	mg/kg dry	1	P8B0202	02/01/18	02/01/18	EPA 8021B
Xylene (p/m)	ND	0.0225	mg/kg dry	1	P8B0202	02/01/18	02/01/18	EPA 8021B
Xylene (o)	ND	0.0112	mg/kg dry	1	P8B0202	02/01/18	02/01/18	EPA 8021B
Surrogate: 1,4-Difluorobenzene		98.1 %	75-125		P8B0202	02/01/18	02/01/18	EPA 8021B
Surrogate: 4-Bromofluorobenzene		123 %	75-125		P8B0202	02/01/18	02/01/18	EPA 8021B

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	456	1.12	mg/kg dry	1	P8B0110	02/01/18	02/03/18	EPA 300.0
% Moisture	11.0	0.1	%	1	P8B0501	02/05/18	02/05/18	ASTM D2216

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	28.1	mg/kg dry	1	P8B0105	02/01/18	02/02/18	TPH 8015M
>C12-C28	ND	28.1	mg/kg dry	1	P8B0105	02/01/18	02/02/18	TPH 8015M
>C28-C35	ND	28.1	mg/kg dry	1	P8B0105	02/01/18	02/02/18	TPH 8015M
Surrogate: 1-Chlorooctane		84.2 %	70-130		P8B0105	02/01/18	02/02/18	TPH 8015M
Surrogate: o-Terphenyl		91.4 %	70-130		P8B0105	02/01/18	02/02/18	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	02/01/18	02/02/18	calc

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Odessa TX, 79765

Project: Stakeholder Midstream  
Project Number: 9021  
Project Manager: Fred Holmes

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**Release Point S. Wall 1'**  
**8A31015-09 (Soil)**

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

**Organics by GC**

Benzene	ND	0.00115	mg/kg dry	1	P8B0202	02/01/18	02/01/18	EPA 8021B
Toluene	ND	0.0115	mg/kg dry	1	P8B0202	02/01/18	02/01/18	EPA 8021B
Ethylbenzene	ND	0.00575	mg/kg dry	1	P8B0202	02/01/18	02/01/18	EPA 8021B
Xylene (p/m)	ND	0.0230	mg/kg dry	1	P8B0202	02/01/18	02/01/18	EPA 8021B
Xylene (o)	ND	0.0115	mg/kg dry	1	P8B0202	02/01/18	02/01/18	EPA 8021B
Surrogate: 1,4-Difluorobenzene		100 %	75-125		P8B0202	02/01/18	02/01/18	EPA 8021B
Surrogate: 4-Bromofluorobenzene		116 %	75-125		P8B0202	02/01/18	02/01/18	EPA 8021B

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	56.7	1.15	mg/kg dry	1	P8B0110	02/01/18	02/03/18	EPA 300.0
% Moisture	13.0	0.1	%	1	P8B0501	02/05/18	02/05/18	ASTM D2216

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	28.7	mg/kg dry	1	P8B0105	02/01/18	02/02/18	TPH 8015M
>C12-C28	ND	28.7	mg/kg dry	1	P8B0105	02/01/18	02/02/18	TPH 8015M
>C28-C35	ND	28.7	mg/kg dry	1	P8B0105	02/01/18	02/02/18	TPH 8015M
Surrogate: 1-Chlorooctane		80.9 %	70-130		P8B0105	02/01/18	02/02/18	TPH 8015M
Surrogate: o-Terphenyl		87.3 %	70-130		P8B0105	02/01/18	02/02/18	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	28.7	mg/kg dry	1	[CALC]	02/01/18	02/02/18	calc

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Odessa TX, 79765

Project: Stakeholder Midstream  
Project Number: 9021  
Project Manager: Fred Holmes

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**Release Point S. Wall 3'**  
**8A31015-10 (Soil)**

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

**Organics by GC**

Benzene	ND	0.00111	mg/kg dry	1	P8B0202	02/01/18	02/01/18	EPA 8021B
Toluene	ND	0.0111	mg/kg dry	1	P8B0202	02/01/18	02/01/18	EPA 8021B
Ethylbenzene	ND	0.00556	mg/kg dry	1	P8B0202	02/01/18	02/01/18	EPA 8021B
Xylene (p/m)	ND	0.0222	mg/kg dry	1	P8B0202	02/01/18	02/01/18	EPA 8021B
Xylene (o)	ND	0.0111	mg/kg dry	1	P8B0202	02/01/18	02/01/18	EPA 8021B
Surrogate: 1,4-Difluorobenzene		92.8 %	75-125		P8B0202	02/01/18	02/01/18	EPA 8021B
Surrogate: 4-Bromofluorobenzene		115 %	75-125		P8B0202	02/01/18	02/01/18	EPA 8021B

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	ND	1.11	mg/kg dry	1	P8B0110	02/01/18	02/03/18	EPA 300.0
% Moisture	10.0	0.1	%	1	P8B0501	02/05/18	02/05/18	ASTM D2216

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	27.8	mg/kg dry	1	P8B0105	02/01/18	02/02/18	TPH 8015M
>C12-C28	ND	27.8	mg/kg dry	1	P8B0105	02/01/18	02/02/18	TPH 8015M
>C28-C35	ND	27.8	mg/kg dry	1	P8B0105	02/01/18	02/02/18	TPH 8015M
Surrogate: 1-Chlorooctane		82.9 %	70-130		P8B0105	02/01/18	02/02/18	TPH 8015M
Surrogate: o-Terphenyl		90.0 %	70-130		P8B0105	02/01/18	02/02/18	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	02/01/18	02/02/18	calc

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13000 West County Road 100  
Odessa TX, 79765

Project: Stakeholder Midstream  
Project Number: 9021  
Project Manager: Fred Holmes

Fax: (432) 563-2213

**Release Point S. Wall 5'**  
**8A31015-11 (Soil)**

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

**Organics by GC**

Benzene	ND	0.00110	mg/kg dry	1	P8B0202	02/01/18	02/01/18	EPA 8021B
Toluene	ND	0.0110	mg/kg dry	1	P8B0202	02/01/18	02/01/18	EPA 8021B
Ethylbenzene	ND	0.00549	mg/kg dry	1	P8B0202	02/01/18	02/01/18	EPA 8021B
Xylene (p/m)	ND	0.0220	mg/kg dry	1	P8B0202	02/01/18	02/01/18	EPA 8021B
Xylene (o)	ND	0.0110	mg/kg dry	1	P8B0202	02/01/18	02/01/18	EPA 8021B
Surrogate: 4-Bromofluorobenzene		113 %	75-125		P8B0202	02/01/18	02/01/18	EPA 8021B
Surrogate: 1,4-Difluorobenzene		92.7 %	75-125		P8B0202	02/01/18	02/01/18	EPA 8021B

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	14.8	1.10	mg/kg dry	1	P8B0110	02/01/18	02/03/18	EPA 300.0
% Moisture	9.0	0.1	%	1	P8B0501	02/05/18	02/05/18	ASTM D2216

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	27.5	mg/kg dry	1	P8B0105	02/01/18	02/02/18	TPH 8015M
>C12-C28	ND	27.5	mg/kg dry	1	P8B0105	02/01/18	02/02/18	TPH 8015M
>C28-C35	ND	27.5	mg/kg dry	1	P8B0105	02/01/18	02/02/18	TPH 8015M
Surrogate: 1-Chlorooctane		86.8 %	70-130		P8B0105	02/01/18	02/02/18	TPH 8015M
Surrogate: o-Terphenyl		94.9 %	70-130		P8B0105	02/01/18	02/02/18	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	02/01/18	02/02/18	calc

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Project Manager: Fred Holmes

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**Release Point S. Wall 7'**  
**8A31015-12 (Soil)**

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

**Organics by GC**

Benzene	ND	0.00115	mg/kg dry	1	P8B0202	02/01/18	02/01/18	EPA 8021B
Toluene	ND	0.0115	mg/kg dry	1	P8B0202	02/01/18	02/01/18	EPA 8021B
Ethylbenzene	ND	0.00575	mg/kg dry	1	P8B0202	02/01/18	02/01/18	EPA 8021B
Xylene (p/m)	ND	0.0230	mg/kg dry	1	P8B0202	02/01/18	02/01/18	EPA 8021B
Xylene (o)	ND	0.0115	mg/kg dry	1	P8B0202	02/01/18	02/01/18	EPA 8021B
Surrogate: 4-Bromofluorobenzene		120 %	75-125		P8B0202	02/01/18	02/01/18	EPA 8021B
Surrogate: 1,4-Difluorobenzene		87.0 %	75-125		P8B0202	02/01/18	02/01/18	EPA 8021B

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	119	1.15	mg/kg dry	1	P8B0110	02/01/18	02/03/18	EPA 300.0
% Moisture	13.0	0.1	%	1	P8B0501	02/05/18	02/05/18	ASTM D2216

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	28.7	mg/kg dry	1	P8B0105	02/01/18	02/02/18	TPH 8015M
>C12-C28	ND	28.7	mg/kg dry	1	P8B0105	02/01/18	02/02/18	TPH 8015M
>C28-C35	ND	28.7	mg/kg dry	1	P8B0105	02/01/18	02/02/18	TPH 8015M
Surrogate: 1-Chlorooctane		91.6 %	70-130		P8B0105	02/01/18	02/02/18	TPH 8015M
Surrogate: o-Terphenyl		99.9 %	70-130		P8B0105	02/01/18	02/02/18	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	28.7	mg/kg dry	1	[CALC]	02/01/18	02/02/18	calc

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**Organics by GC - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P8A3115 - General Preparation (GC)**

**Blank (P8A3115-BLK1)**

Prepared & Analyzed: 01/31/18

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.0100	"							
Ethylbenzene	ND	0.00500	"							
Xylene (p/m)	ND	0.0200	"							
Xylene (o)	ND	0.0100	"							
Surrogate: 1,4-Difluorobenzene	0.0547		"	0.0600		91.2	75-125			
Surrogate: 4-Bromofluorobenzene	0.0753		"	0.0600		125	75-125			

**LCS (P8A3115-BS1)**

Prepared & Analyzed: 01/31/18

Benzene	0.0911	0.00100	mg/kg wet	0.100		91.1	70-130			
Toluene	0.0980	0.0100	"	0.100		98.0	70-130			
Ethylbenzene	0.116	0.00500	"	0.100		116	70-130			
Xylene (p/m)	0.209	0.0200	"				70-130			
Xylene (o)	0.103	0.0100	"				70-130			
Surrogate: 4-Bromofluorobenzene	0.0580		"	0.0600		96.6	75-125			
Surrogate: 1,4-Difluorobenzene	0.0534		"	0.0600		89.0	75-125			

**LCS Dup (P8A3115-BSD1)**

Prepared & Analyzed: 01/31/18

Benzene	0.106	0.00100	mg/kg wet	0.100		106	70-130	15.2	20	
Toluene	0.114	0.0100	"	0.100		114	70-130	15.3	20	
Ethylbenzene	0.114	0.00500	"	0.100		114	70-130	1.86	20	
Xylene (p/m)	0.216	0.0200	"				70-130		20	
Xylene (o)	0.114	0.0100	"				70-130		20	
Surrogate: 1,4-Difluorobenzene	0.0615		"	0.0600		102	75-125			
Surrogate: 4-Bromofluorobenzene	0.0674		"	0.0600		112	75-125			

**Duplicate (P8A3115-DUP1)**

Source: 8A31002-10

Prepared: 01/31/18 Analyzed: 02/01/18

Benzene	ND	0.0206	mg/kg dry		ND				20	
Toluene	0.375	0.206	"		0.334			11.3	20	
Ethylbenzene	1.04	0.103	"		0.890			15.3	20	
Xylene (p/m)	3.37	0.412	"		2.95			13.3	20	
Xylene (o)	1.84	0.206	"		1.75			5.38	20	
Surrogate: 4-Bromofluorobenzene	0.0438		"	0.0619		70.9	75-125			
Surrogate: 1,4-Difluorobenzene	0.0453		"	0.0619		73.2	75-125			

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**Organics by GC - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P8B0202 - General Preparation (GC)**

**Blank (P8B0202-BLK1)**

Prepared & Analyzed: 02/01/18

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.0100	"							
Ethylbenzene	ND	0.00500	"							
Xylene (p/m)	ND	0.0200	"							
Xylene (o)	ND	0.0100	"							
Surrogate: 4-Bromofluorobenzene	0.0685		"	0.0600		114	75-125			
Surrogate: 1,4-Difluorobenzene	0.0507		"	0.0600		84.5	75-125			

**LCS (P8B0202-BS1)**

Prepared & Analyzed: 02/01/18

Benzene	0.111	0.00100	mg/kg wet	0.100		111	70-130			
Toluene	0.119	0.0100	"	0.100		119	70-130			
Ethylbenzene	0.115	0.00500	"	0.100		115	70-130			
Xylene (p/m)	0.217	0.0200	"				70-130			
Xylene (o)	0.119	0.0100	"				70-130			
Surrogate: 4-Bromofluorobenzene	0.0729		"	0.0600		121	75-125			
Surrogate: 1,4-Difluorobenzene	0.0634		"	0.0600		106	75-125			

**LCS Dup (P8B0202-BSD1)**

Prepared & Analyzed: 02/01/18

Benzene	0.107	0.00100	mg/kg wet	0.100		107	70-130	3.39	20	
Toluene	0.119	0.0100	"	0.100		119	70-130	0.337	20	
Ethylbenzene	0.115	0.00500	"	0.100		115	70-130	0.260	20	
Xylene (p/m)	0.220	0.0200	"				70-130		20	
Xylene (o)	0.115	0.0100	"				70-130		20	
Surrogate: 1,4-Difluorobenzene	0.0616		"	0.0600		103	75-125			
Surrogate: 4-Bromofluorobenzene	0.0706		"	0.0600		118	75-125			



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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P8B0110 - \*\*\* DEFAULT PREP \*\*\***

**Blank (P8B0110-BLK1)**

Prepared: 02/01/18 Analyzed: 02/03/18

Chloride	ND	1.00	mg/kg wet							
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**LCS (P8B0110-BS1)**

Prepared: 02/01/18 Analyzed: 02/03/18

Chloride	404	1.00	mg/kg wet	400		101	80-120			
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**LCS Dup (P8B0110-BSD1)**

Prepared: 02/01/18 Analyzed: 02/03/18

Chloride	395	1.00	mg/kg wet	400		98.8	80-120	2.13	20	
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**Duplicate (P8B0110-DUP1)**

Source: 8A31012-17

Prepared: 02/01/18 Analyzed: 02/03/18

Chloride	1790	25.5	mg/kg dry		1710			4.46	20	
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**Duplicate (P8B0110-DUP2)**

Source: 8A31015-03

Prepared: 02/01/18 Analyzed: 02/03/18

Chloride	ND	1.15	mg/kg dry		ND				20	
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**Matrix Spike (P8B0110-MS1)**

Source: 8A31012-17

Prepared: 02/01/18 Analyzed: 02/03/18

Chloride	3790	25.5	mg/kg dry	2040	1710	102	80-120			
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**Batch P8B0501 - \*\*\* DEFAULT PREP \*\*\***

**Blank (P8B0501-BLK1)**

Prepared & Analyzed: 02/05/18

% Moisture	ND	0.1	%							
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**Duplicate (P8B0501-DUP1)**

Source: 8A31012-03

Prepared & Analyzed: 02/05/18

% Moisture	3.0	0.1	%		3.0			0.00	20	
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**Duplicate (P8B0501-DUP2)**

Source: 8A31015-04

Prepared & Analyzed: 02/05/18

% Moisture	15.0	0.1	%		13.0			14.3	20	
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13000 West County Road 100  
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Project: Stakeholder Midstream  
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**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P8B0501 - \*\*\* DEFAULT PREP \*\*\***

<b>Duplicate (P8B0501-DUP3)</b>		<b>Source: 8A31019-09</b>		Prepared & Analyzed: 02/05/18						
% Moisture	5.0	0.1	%		1.0			133	20	
<b>Duplicate (P8B0501-DUP4)</b>		<b>Source: 8A31024-02</b>		Prepared & Analyzed: 02/05/18						
% Moisture	13.0	0.1	%		15.0			14.3	20	
<b>Duplicate (P8B0501-DUP5)</b>		<b>Source: 8A31024-24</b>		Prepared & Analyzed: 02/05/18						
% Moisture	12.0	0.1	%		12.0			0.00	20	
<b>Duplicate (P8B0501-DUP6)</b>		<b>Source: 8B02003-01</b>		Prepared & Analyzed: 02/05/18						
% Moisture	19.0	0.1	%		14.0			30.3	20	

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P8B0105 - General Preparation (GC)**

**Blank (P8B0105-BLK1)**

Prepared & Analyzed: 02/01/18

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	117		"	100		117	70-130			
Surrogate: o-Terphenyl	64.6		"	50.0		129	70-130			

**LCS (P8B0105-BS1)**

Prepared & Analyzed: 02/01/18

C6-C12	884	25.0	mg/kg wet	1000		88.4	75-125			
>C12-C28	942	25.0	"	1000		94.2	75-125			
Surrogate: 1-Chlorooctane	109		"	100		109	70-130			
Surrogate: o-Terphenyl	59.2		"	50.0		118	70-130			

**LCS Dup (P8B0105-BSD1)**

Prepared & Analyzed: 02/01/18

C6-C12	826	25.0	mg/kg wet	1000		82.6	75-125	6.78	20	
>C12-C28	926	25.0	"	1000		92.6	75-125	1.66	20	
Surrogate: 1-Chlorooctane	129		"	100		129	70-130			
Surrogate: o-Terphenyl	59.0		"	50.0		118	70-130			

**Calibration Blank (P8B0105-CCB1)**

Prepared & Analyzed: 02/01/18

C6-C12	18.7		mg/kg wet							
>C12-C28	22.2		"							
Surrogate: 1-Chlorooctane	112		"	100		112	70-130			
Surrogate: o-Terphenyl	61.9		"	50.0		124	70-130			

**Calibration Blank (P8B0105-CCB2)**

Prepared: 02/01/18 Analyzed: 02/02/18

C6-C12	20.7		mg/kg wet							
>C12-C28	11.1		"							
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	64.9		"	50.0		130	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P8B0105 - General Preparation (GC)**

**Calibration Check (P8B0105-CCV1)**

Prepared & Analyzed: 02/01/18

C6-C12	471	25.0	mg/kg wet	500		94.2	85-115			
>C12-C28	478	25.0	"	500		95.6	85-115			
Surrogate: 1-Chlorooctane	119		"	100		119	70-130			
Surrogate: o-Terphenyl	58.9		"	50.0		118	70-130			

**Calibration Check (P8B0105-CCV2)**

Prepared: 02/01/18 Analyzed: 02/02/18

C6-C12	490	25.0	mg/kg wet	500		98.1	85-115			
>C12-C28	520	25.0	"	500		104	85-115			
Surrogate: 1-Chlorooctane	122		"	100		122	70-130			
Surrogate: o-Terphenyl	61.4		"	50.0		123	70-130			

**Calibration Check (P8B0105-CCV3)**

Prepared: 02/01/18 Analyzed: 02/02/18

C6-C12	515	25.0	mg/kg wet	500		103	85-115			
>C12-C28	524	25.0	"	500		105	85-115			
Surrogate: 1-Chlorooctane	126		"	100		126	70-130			
Surrogate: o-Terphenyl	63.2		"	50.0		126	70-130			

**Matrix Spike (P8B0105-MS1)**

Source: 8A31014-02

Prepared: 02/01/18 Analyzed: 02/02/18

C6-C12	932	26.6	mg/kg dry	1060	15.6	86.2	75-125			
>C12-C28	1080	26.6	"	1060	ND	101	75-125			
Surrogate: 1-Chlorooctane	129		"	106		121	70-130			
Surrogate: o-Terphenyl	53.3		"	53.2		100	70-130			

**Matrix Spike Dup (P8B0105-MSD1)**

Source: 8A31014-02

Prepared: 02/01/18 Analyzed: 02/02/18

C6-C12	916	26.6	mg/kg dry	1060	15.6	84.6	75-125	1.82	20	
>C12-C28	1070	26.6	"	1060	ND	100	75-125	1.08	20	
Surrogate: 1-Chlorooctane	128		"	106		120	70-130			
Surrogate: o-Terphenyl	52.1		"	53.2		98.0	70-130			

### Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By:



Date:

2/5/2018

Brent Barron, Laboratory Director/Technical Director

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

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

Relinquished by:	Date	Time	Received by:	Date	Time	Sample Containers Intact?
<i>2000 5th Ave NW</i>	<i>1/26/18</i>	<i>1400</i>	<i>M E S Star</i>	<i>1-31-18</i>	<i>857</i>	VOCs Free of Headspace?
Relinquished by:	Date	Time	Received by:	Date	Time	Custody seals on container(s)
<i>M E S Star</i>	<i>1-31-18</i>	<i>857</i>	<i>M E S Star</i>	<i>1/31/18</i>	<i>940</i>	Custody seals on cooler(s)
Relinquished by:	Date	Time	Received by:	Date	Time	Sample Hand Delivered
<i>M E S Star</i>	<i>1-31-18</i>	<i>857</i>	<i>M E S Star</i>	<i>1/31/18</i>	<i>940</i>	Sat by Sampler/Client Rep. ?
Relinquished by:	Date	Time	Received by:	Date	Time	Sat by Courier?      UPS      DHL
<i>M E S Star</i>	<i>1-31-18</i>	<i>857</i>	<i>M E S Star</i>	<i>1/31/18</i>	<i>940</i>	Temperature Upon Receipt: <i>20.0 C</i>

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



# Analytical Report

**Prepared for:**

Fred Holmes  
E Tech Environmental & Safety Solutions, Inc.  
13000 West County Road 100  
Odessa, TX 79765

Project: Stakeholder Midstream

Project Number: 9021

Location: Pollos Hermanos

Lab Order Number: 8B07001



NELAP/TCEQ # T104704516-17-8

Report Date: 02/08/18

E Tech Environmental & Safety Solutions, Inc.  
13000 West County Road 100  
Odessa TX, 79765

Project: Stakeholder Midstream  
Project Number: 9021  
Project Manager: Fred Holmes

Fax: (432) 563-2213

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
West End North Side 1.5'	8B07001-01	Soil	02/06/18 10:10	02-06-2018 17:00



E Tech Environmental & Safety Solutions, Inc.  
13000 West County Road 100  
Odessa TX, 79765

Project: Stakeholder Midstream  
Project Number: 9021  
Project Manager: Fred Holmes

Fax: (432) 563-2213

**West End North Side 1.5'**

**8B07001-01 (Soil)**

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

**Organics by GC**

Benzene	ND	0.00119	mg/kg dry	1	P8B0705	02/07/18	02/08/18	EPA 8021B
Toluene	ND	0.0119	mg/kg dry	1	P8B0705	02/07/18	02/08/18	EPA 8021B
Ethylbenzene	ND	0.00595	mg/kg dry	1	P8B0705	02/07/18	02/08/18	EPA 8021B
Xylene (p/m)	ND	0.0238	mg/kg dry	1	P8B0705	02/07/18	02/08/18	EPA 8021B
Xylene (o)	ND	0.0119	mg/kg dry	1	P8B0705	02/07/18	02/08/18	EPA 8021B
Surrogate: 4-Bromofluorobenzene		115 %	75-125		P8B0705	02/07/18	02/08/18	EPA 8021B
Surrogate: 1,4-Difluorobenzene		85.9 %	75-125		P8B0705	02/07/18	02/08/18	EPA 8021B

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	ND	1.19	mg/kg dry	1	P8B0708	02/07/18	02/08/18	EPA 300.0
% Moisture	16.0	0.1	%	1	P8B0803	02/08/18	02/08/18	ASTM D2216

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	29.8	mg/kg dry	1	P8B0701	02/07/18	02/07/18	TPH 8015M
>C12-C28	ND	29.8	mg/kg dry	1	P8B0701	02/07/18	02/07/18	TPH 8015M
>C28-C35	ND	29.8	mg/kg dry	1	P8B0701	02/07/18	02/07/18	TPH 8015M
Surrogate: 1-Chlorooctane		76.6 %	70-130		P8B0701	02/07/18	02/07/18	TPH 8015M
Surrogate: o-Terphenyl		78.8 %	70-130		P8B0701	02/07/18	02/07/18	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	29.8	mg/kg dry	1	[CALC]	02/07/18	02/07/18	calc

E Tech Environmental & Safety Solutions, Inc.  
13000 West County Road 100  
Odessa TX, 79765

Project: Stakeholder Midstream  
Project Number: 9021  
Project Manager: Fred Holmes

Fax: (432) 563-2213

**Organics by GC - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P8B0705 - General Preparation (GC)**

**Blank (P8B0705-BLK1)**

Prepared: 02/07/18 Analyzed: 02/08/18

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.0100	"							
Ethylbenzene	ND	0.00500	"							
Xylene (p/m)	ND	0.0200	"							
Xylene (o)	ND	0.0100	"							
Surrogate: 1,4-Difluorobenzene	0.0504		"	0.0600		84.0	75-125			
Surrogate: 4-Bromofluorobenzene	0.0600		"	0.0600		99.9	75-125			

**LCS (P8B0705-BS1)**

Prepared & Analyzed: 02/07/18

Benzene	0.110	0.00100	mg/kg wet	0.100		110	70-130			
Toluene	0.120	0.0100	"	0.100		120	70-130			
Ethylbenzene	0.112	0.00500	"	0.100		112	70-130			
Xylene (p/m)	0.216	0.0200	"				70-130			
Xylene (o)	0.120	0.0100	"				70-130			
Surrogate: 1,4-Difluorobenzene	0.0608		"	0.0600		101	75-125			
Surrogate: 4-Bromofluorobenzene	0.0713		"	0.0600		119	75-125			

**LCS Dup (P8B0705-BSD1)**

Prepared: 02/07/18 Analyzed: 02/08/18

Benzene	0.0989	0.00100	mg/kg wet	0.100		98.9	70-130	10.3	20	
Toluene	0.105	0.0100	"	0.100		105	70-130	12.9	20	
Ethylbenzene	0.117	0.00500	"	0.100		117	70-130	4.23	20	
Xylene (p/m)	0.215	0.0200	"				70-130		20	
Xylene (o)	0.102	0.0100	"				70-130		20	
Surrogate: 1,4-Difluorobenzene	0.0667		"	0.0600		111	75-125			
Surrogate: 4-Bromofluorobenzene	0.0754		"	0.0600		126	75-125			S-GC

**Calibration Blank (P8B0705-CCB1)**

Prepared & Analyzed: 02/07/18

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.0716		"	0.0600		119	75-125			
Surrogate: 1,4-Difluorobenzene	0.0512		"	0.0600		85.3	75-125			

E Tech Environmental & Safety Solutions, Inc.  
13000 West County Road 100  
Odessa TX, 79765

Project: Stakeholder Midstream  
Project Number: 9021  
Project Manager: Fred Holmes

Fax: (432) 563-2213

**Organics by GC - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P8B0705 - General Preparation (GC)**

**Calibration Check (P8B0705-CCV1)**

Prepared & Analyzed: 02/07/18

Benzene	0.106	0.00100	mg/kg wet	0.100		106	80-120			
Toluene	0.117	0.0100	"	0.100		117	80-120			
Ethylbenzene	0.112	0.00500	"	0.100		112	80-120			
Xylene (p/m)	0.219	0.0200	"	0.200		109	80-120			
Xylene (o)	0.118	0.0100	"	0.100		118	80-120			
Surrogate: 4-Bromofluorobenzene	0.0663		"	0.0600		111	75-125			
Surrogate: 1,4-Difluorobenzene	0.0627		"	0.0600		105	75-125			

E Tech Environmental & Safety Solutions, Inc.  
13000 West County Road 100  
Odessa TX, 79765

Project: Stakeholder Midstream  
Project Number: 9021  
Project Manager: Fred Holmes

Fax: (432) 563-2213

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P8B0708 - \*\*\* DEFAULT PREP \*\*\***

**Blank (P8B0708-BLK1)**

Prepared: 02/07/18 Analyzed: 02/08/18

Chloride	ND	1.00	mg/kg wet							
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**LCS (P8B0708-BS1)**

Prepared: 02/07/18 Analyzed: 02/08/18

Chloride	441	1.00	mg/kg wet	400		110	80-120			
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**LCS Dup (P8B0708-BSD1)**

Prepared: 02/07/18 Analyzed: 02/08/18

Chloride	420	1.00	mg/kg wet	400		105	80-120	4.89	20	
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**Duplicate (P8B0708-DUP1)**

Source: 8B07001-01

Prepared: 02/07/18 Analyzed: 02/08/18

Chloride	ND	1.19	mg/kg dry		ND				20	
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**Duplicate (P8B0708-DUP2)**

Source: 8B07002-10

Prepared: 02/07/18 Analyzed: 02/08/18

Chloride	ND	1.01	mg/kg dry		107				20	
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**Matrix Spike (P8B0708-MS1)**

Source: 8B07001-01

Prepared: 02/07/18 Analyzed: 02/08/18

Chloride	1160	1.19	mg/kg dry	1190	ND	97.8	80-120			
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**Batch P8B0803 - \*\*\* DEFAULT PREP \*\*\***

**Blank (P8B0803-BLK1)**

Prepared & Analyzed: 02/08/18

% Moisture	ND	0.1	%							
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**Duplicate (P8B0803-DUP1)**

Source: 8B07003-03

Prepared & Analyzed: 02/08/18

% Moisture	14.0	0.1	%		6.0			80.0	20	
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**Duplicate (P8B0803-DUP2)**

Source: 8B07006-04

Prepared & Analyzed: 02/08/18

% Moisture	9.0	0.1	%		8.0			11.8	20	
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E Tech Environmental & Safety Solutions, Inc.  
13000 West County Road 100  
Odessa TX, 79765

Project: Stakeholder Midstream  
Project Number: 9021  
Project Manager: Fred Holmes

Fax: (432) 563-2213

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P8B0803 - \*\*\* DEFAULT PREP \*\*\***

<b>Duplicate (P8B0803-DUP3)</b>		<b>Source: 8B07005-17</b>			Prepared & Analyzed: 02/08/18					
% Moisture	14.0	0.1	%		15.0			6.90	20	
<b>Duplicate (P8B0803-DUP4)</b>		<b>Source: 8B07005-18</b>			Prepared & Analyzed: 02/08/18					
% Moisture	16.0	0.1	%		14.0			13.3	20	
<b>Duplicate (P8B0803-DUP5)</b>		<b>Source: 8B07007-02</b>			Prepared & Analyzed: 02/08/18					
% Moisture	1.0	0.1	%		1.0			0.00	20	
<b>Duplicate (P8B0803-DUP6)</b>		<b>Source: 8B07020-01</b>			Prepared & Analyzed: 02/08/18					
% Moisture	3.0	0.1	%		6.0			66.7	20	

E Tech Environmental & Safety Solutions, Inc.  
13000 West County Road 100  
Odessa TX, 79765

Project: Stakeholder Midstream  
Project Number: 9021  
Project Manager: Fred Holmes

Fax: (432) 563-2213

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P8B0701 - General Preparation (GC)**

**Blank (P8B0701-BLK1)**

Prepared & Analyzed: 02/07/18

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	80.0		"	100		80.0	70-130			
Surrogate: o-Terphenyl	40.3		"	50.0		80.6	70-130			

**LCS (P8B0701-BS1)**

Prepared & Analyzed: 02/07/18

C6-C12	888	25.0	mg/kg wet	1000		88.8	75-125			
>C12-C28	929	25.0	"	1000		92.9	75-125			
Surrogate: 1-Chlorooctane	118		"	100		118	70-130			
Surrogate: o-Terphenyl	50.5		"	50.0		101	70-130			

**LCS Dup (P8B0701-BSD1)**

Prepared & Analyzed: 02/07/18

C6-C12	894	25.0	mg/kg wet	1000		89.4	75-125	0.619	20	
>C12-C28	930	25.0	"	1000		93.0	75-125	0.0839	20	
Surrogate: 1-Chlorooctane	119		"	100		119	70-130			
Surrogate: o-Terphenyl	50.7		"	50.0		101	70-130			

**Calibration Blank (P8B0701-CCB1)**

Prepared & Analyzed: 02/07/18

C6-C12	11.0		mg/kg wet							
>C12-C28	11.9		"							
Surrogate: 1-Chlorooctane	107		"	100		107	70-130			
Surrogate: o-Terphenyl	54.7		"	50.0		109	70-130			

**Calibration Blank (P8B0701-CCB2)**

Prepared & Analyzed: 02/07/18

C6-C12	6.71		mg/kg wet							
>C12-C28	15.1		"							
Surrogate: 1-Chlorooctane	91.0		"	100		91.0	70-130			
Surrogate: o-Terphenyl	46.2		"	50.0		92.5	70-130			

E Tech Environmental & Safety Solutions, Inc.  
13000 West County Road 100  
Odessa TX, 79765

Project: Stakeholder Midstream  
Project Number: 9021  
Project Manager: Fred Holmes

Fax: (432) 563-2213

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P8B0701 - General Preparation (GC)**

**Calibration Check (P8B0701-CCV1)**

Prepared & Analyzed: 02/07/18

C6-C12	519	25.0	mg/kg wet	500		104	85-115			
>C12-C28	569	25.0	"	500		114	85-115			
Surrogate: 1-Chlorooctane	125		"	100		125	70-130			
Surrogate: o-Terphenyl	56.5		"	50.0		113	70-130			

**Calibration Check (P8B0701-CCV2)**

Prepared & Analyzed: 02/07/18

C6-C12	462	25.0	mg/kg wet	500		92.4	85-115			
>C12-C28	496	25.0	"	500		99.2	85-115			
Surrogate: 1-Chlorooctane	112		"	100		112	70-130			
Surrogate: o-Terphenyl	53.6		"	50.0		107	70-130			

**Calibration Check (P8B0701-CCV3)**

Prepared & Analyzed: 02/07/18

C6-C12	547	25.0	mg/kg wet	500		109	85-115			
>C12-C28	565	25.0	"	500		113	85-115			
Surrogate: 1-Chlorooctane	129		"	100		129	70-130			
Surrogate: o-Terphenyl	58.2		"	50.0		116	70-130			

**Matrix Spike (P8B0701-MS1)**

Source: 8B07002-19

Prepared & Analyzed: 02/07/18

C6-C12	1010	25.0	mg/kg dry	1000	10.6	99.8	75-125			
>C12-C28	1040	25.0	"	1000	ND	104	75-125			
Surrogate: 1-Chlorooctane	128		"	100		128	70-130			
Surrogate: o-Terphenyl	49.3		"	50.0		98.7	70-130			

**Matrix Spike Dup (P8B0701-MSD1)**

Source: 8B07002-19

Prepared & Analyzed: 02/07/18

C6-C12	1040	25.0	mg/kg dry	1000	10.6	103	75-125	2.76	20	
>C12-C28	1040	25.0	"	1000	ND	104	75-125	0.286	20	
Surrogate: 1-Chlorooctane	119		"	100		119	70-130			
Surrogate: o-Terphenyl	56.3		"	50.0		113	70-130			

### Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
BULK	Samples received in Bulk soil containers
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By:



Date:

2/8/2018

Brent Barron, Laboratory Director/Technical Director

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

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



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Name: Stakeholder Meeting  
Project #: 9021 Project Loc: Pollos Heras  
Area: \_\_\_\_\_ PO#: \_\_\_\_\_

Page 11 of 11

Project Manager: ~~SEAN CARRER~~ Fred Holmes

Company Name: Etech Environmental & Safety Solutions, Inc.

Company Mailing Address: P.O. Box 622228

City/State/Zip: Odessa, Texas 79765

Phone: 432-563-2200 Fax: 432-563-2213

Sampler Signature: Cherry N. Lee email: ~~scen~~@etechenv.com

email: *fred* ~~sean~~@etechenv.com

Report Format: STANDARD: ☒TRRP: ☐NPDES: ☐[illegible]

## Attachment D

### Disposal Tickets



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 446021

LEASE OPERATOR/SHIPPER/COMPANY: Shelbyville Industries

LEASE NAME: Shelbyville Industries Inc. Shuler

TRANSPORTER COMPANY: Donner

TIME 1:20 AM/PM

DATE: 1-20-13 VEHICLE NO: 8

GENERATOR COMPANY/  
MAN'S NAME: Anthony Bell

CHARGE TO: Donner

RIG NAME  
AND NUMBER 897-6457

## TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Rinsate

☐ Tank Bottoms

☒ Contaminated Soil

☐ Jet Out

☐ Solids

☐ BS&W Content:

☐ Call Out

Description: 6112

RRC or API #

C-133#

VOLUME OF MATERIAL

☐ BBLs

:

☒ YARD

:

☐

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

**THIS WILL CERTIFY** that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: Estephan H

(SIGNATURE)

FACILITY REPRESENTATIVE: Selle

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 446022

LEASE OPERATOR/SHIPPER/COMPANY: Shelbyholder m/b/1000

LEASE NAME: Relios Industries Inc - Shiller

TRANSPORTER COMPANY: Danaher

TIME 10:30 AM/PM

DATE: 1-29-18

VEHICLE NO: 3415

GENERATOR COMPANY  
MAN'S NAME: Barney

CHARGE TO: 1200151-1001

RIG NAME  
AND NUMBER 17-44137

## TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Rinsate

☐ Tank Bottoms

☒ Contaminated Soil

☐ Jet Out

☐ Solids

☐ BS&W Content:

☐ Call Out

Description: 4112

RRC or API #

C-133# 77m

VOLUME OF MATERIAL ☐ BBLs. \_\_\_\_\_ : ☒ YARD 70 : ☐ \_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

**THIS WILL CERTIFY** that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: \_\_\_\_\_

(SIGNATURE)

FACILITY REPRESENTATIVE: \_\_\_\_\_

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter



# SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231  
(575) 394-2511

TICKET No. 446020

LEASE OPERATOR/SHIPPER/COMPANY: Shimco, Inc.

LEASE NAME: Wells Services Co. Shale

TRANSPORTER COMPANY: Disposal

TIME 10:00 AM/PM

DATE: 1-29-18

VEHICLE NO: 9

GENERATOR COMPANY  
MAN'S NAME: Anthony Miller

CHARGE TO: Disposal

RIG NAME  
AND NUMBER 611397 6457

## TYPE OF MATERIAL

☐ Production Water

☐ Drilling Fluids

☐ Rinsate

☐ Tank Bottoms

☒ Contaminated Soil

☐ Jet Out

☐ Solids

☐ BS&W Content:

☐ Call Out

Description: Oil

RRC or API # 119

C-133# hm

VOLUME OF MATERIAL

☐ BBLs.

☒ YARD 50

☐

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

**THIS WILL CERTIFY** that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: Oscar Aguirre

(SIGNATURE)

FACILITY REPRESENTATIVE: Shimco

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter





Work Ticket 26981

Company Stakeholder Midstream  
Lease Pollos Hermanos Line Strike  
AFE #  
Paykey  
County Lea  
Description of Work

Job #  
Date 11/29/18  
Purchase Order  
Work Order #  
Ordered By Chris Craycraft  
RRC#/COM#

315 S. Leech  
P.O. Box 5966  
Hobbs, NM 88240  
Phone: 575-397-6437  
Fax: 575-393-2981

Start 6 AM PM  
End AM PM

Furnish labor + equip. to haul off 60 yds of contaminated material to Sundance.

Sundance PO → #8158

LABOR					EQUIPMENT				PICKUP			
	Employee	Hours	Rate	Amount	Unit #	Hours	Rate	Amount	Unit #	Hours	Rate	Amount
	Foreman											
	General Laborer											
	General Laborer											
	General Laborer											
	General Laborer											
	General Laborer											
	Project Manager											
	Site Supervisor											
	Environmental Tech.											
	Environmental Tech.											
	Project Scientist											
	Project Specialist											
	Administrative											
	Loader Operator											
	Backhoe Operator											
	Backhoe Operator											
	Dozer Operator											
	Dozer Operator											
	Blade Operator											
	Roller Operator											
	Excavator Operator											
	Tractor Operator											
	Bbls											
	Water Truck											
	Water Truck											
	Transport											
	Haul Truck											
	Trailer											

	Yd Size				Unit #
Hauling	20	MHE TRUCKING	6		8
Hauling	20	MHE TRUCKING	6		9
Hauling	20	MHE TRUCKING	6		249
Hauling					
Hauling					
Hauling					
Hauling					
Hauling					
Hauling					
Hauling					

Materials	Qty.	Rate	Amount
Caliche			
Base Course			
Sand			
Water			
Chloride Screens			
Disposal	Sundance 60		

Labor	
Equipment	
Hauling	
Materials	
Fuel Surcharge	
Mileage	
Sub Total	
Tax	
Total	


Customer Signature \_\_\_\_\_


## Attachment E

### Photograph Log


<b>Photo No:</b> 1.	
<b>Direction Taken:</b> East	
<b>Description:</b> Spill on the soil between County Rd 138 and the well pad.	



<b>Photo No:</b> <b>2.</b>	 <p>1/5/2018</p>
<b>Direction Taken:</b> Southeast	
<b>Description:</b> Spill looking predominantly east.	

<b>Photo No:</b> 3.	
<b>Direction Taken:</b> West	
<b>Description:</b> West end of the spill looking east.	




<b>Photo No:</b> <b>4.</b>	
<b>Direction Taken:</b> Southeast	
<b>Description:</b> Portion of the poly pipe that was struck.	

<b>Photo No:</b> <b>5.</b>
<b>Direction Taken:</b> Northwest
<b>Description:</b> Excavated dirt for access to repair pipe.







<b>Photo No:</b> 6.	
<b>Direction Taken:</b> Northwest	
<b>Description:</b> Close-up of the dirt excavated from line strike area.	

<b>Photo No:</b> <b>7.</b>	
<b>Direction Taken:</b> Southeast	
<b>Description:</b> Clean dirt excavated to access pipe to make repairs.	


1/5/2018

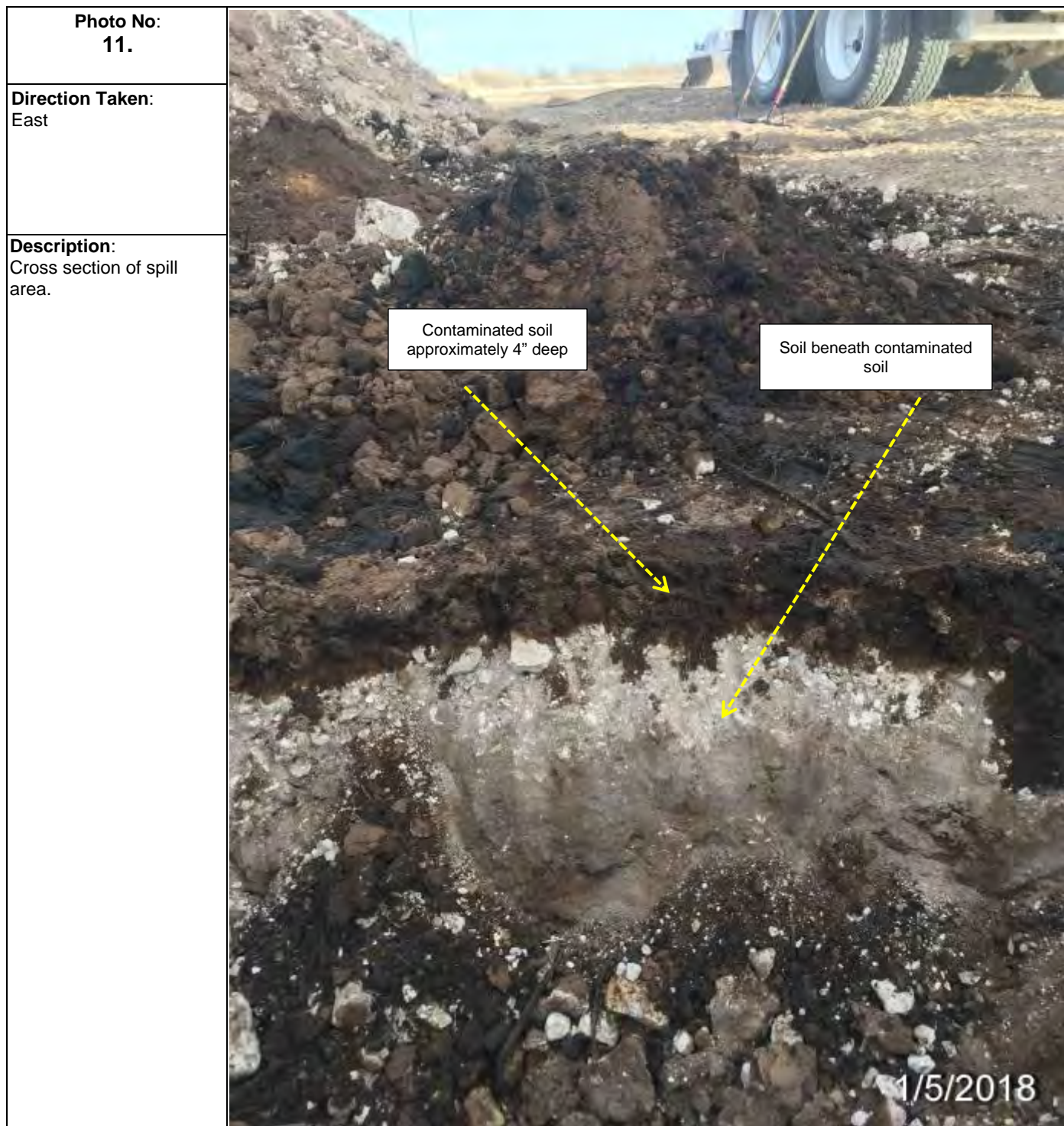


<b>Photo No:</b> 8.	
<b>Direction Taken:</b> Southwest	
<b>Description:</b> Spill area where contaminated soil is being removed.	

<b>Photo No:</b> <b>9.</b>	 <p>1/5/2018</p>
<b>Direction Taken:</b> Northeast	
<b>Description:</b> Spill area that is in the process of being excavated.	



<b>Photo No:</b> <b>10.</b>	
<b>Direction Taken:</b> Southeast	
<b>Description:</b> Stage area for contaminated soil.	






<b>Photo No:</b> 12.	
<b>Direction Taken:</b> South	
<b>Description:</b> Vacuum hose inside pipeline.	

<b>Photo No:</b> 13.	
<b>Direction Taken:</b> South	
<b>Description:</b> Close up of previous photo.	




<b>Photo No:</b> 14.	
<b>Direction Taken:</b> North	
<b>Description:</b> Machine used to weld pipe back together.	

<b>Photo No:</b> <b>15.</b>
<b>Direction Taken:</b> Southwest
<b>Description:</b> Worker cutting pipe to make splice.






<b>Photo No:</b> <b>16.</b>	
<b>Direction Taken:</b> Southwest	
<b>Description:</b> Pipe being spliced.	







<b>Photo No:</b> <b>19.</b>	
<b>Direction Taken:</b> East	
<b>Description:</b> Over view of final excavation taken February 14, 2018. Note: Soil pile in the background is clean fill from backhauls waiting for placement after approval.	