

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-141  
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

### Release Notification and Corrective Action

#### OPERATOR

Initial Report  Final Report

Name of Company	<i>Enterprise Field Services LLC</i>	Contact	<i>Alena Miro</i>
	<i>PO Box 4324, Houston, TX 77210</i>	Telephone No.	<i>575-628-6802</i>
Facility Name	<i>Pipeline ROW, Line 1009</i>	Facility Type:	<i>Gas Gathering Pipeline</i>
Surface Owner	<i>State of New Mexico</i>	Mineral Owner	<i>NA - Pipeline</i>
		Lease No.	<i>NA</i>

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
<i>F</i>	<i>13</i>	<i>21S</i>	<i>34E</i>	<i>462</i>	<i>South</i>	<i>493</i>	<i>East</i>	<i>Lea</i>

Latitude: 32.480269 Longitude: W -103.425138

#### NATURE OF RELEASE

Type of Release	<i>Natural Gas and pipeline liquids</i>	Volume of Release:	<i>1724 MCF gas and 60 bbls liquids</i>	Volume Recovered:	<i>N/A</i>
Source of Release	<i>Pipeline Leak.</i>	Date and Hour of Occurrence	<i>1/19/2016 @ 08:45 MST</i>	Date and Hour of Discovery	<i>1/19/2016 @ 08:45 MST</i>
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	<i>Region 1 - Kellie Jones</i>		
By Whom?	<i>Alena Polk</i>	Date and Hour	<i>1/19/2016 @ 11 am</i>		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.\*

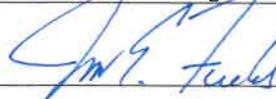
Describe Cause of Problem and Remedial Action Taken.\*

*Pipeline leak was detected by a third party. Pipeline segment and free fluids were isolated, blown down, and repaired following a standard one-call. About 60 bbls of liquid noted on ROW.*

Describe Area Affected and Cleanup Action Taken.\*

*A liquid spill of about 60bbls occurred as part of the leak. Remediation actions followed the Enterprise Products, General Release Notification, Response and Remediation Plan (March 9, 2015).*

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

Signature:		<b>OIL CONSERVATION DIVISION</b>	
Printed Name:	<i>Jon E. Fields</i>	Approved by District Supervisor:	
Title:	<i>Director, Field Environmental</i>	Approval Date:	<i>4/20/2023</i>
E-mail Address:	<i>jefields@eprod.com</i>	Expiration Date:	
Date:	<i>5-9-19</i>	Conditions of Approval:	Attached <input type="checkbox"/>
Phone:	<i>713-381-6684</i>		

\* Attach Additional Sheets If Necessary



## CORRECTIVE ACTION REPORT

Property:

**1009 Pipeline Release #2**  
**32.480269 N, 103.425138 W**  
**SE $\frac{1}{4}$  NW $\frac{1}{4}$ , S13 T21S R34E**  
**Lea County, New Mexico**  
NMOCD RP No.: 1RP-4121

November 15, 2017  
Apex Project No. 725010112135

Prepared for:

**Enterprise Field Services LLC**  
PO Box 4324  
Houston, TX 77210  
**Attn: Ms. Alena Miro**

Prepared by:

---

Karolanne Toby  
Project Manager

---

Sharon Hall-Hunt, P.G.  
Branch Manager

**TABLE OF CONTENTS**

---

**1.0 INTRODUCTION .....1**

    1.1 Site Description & Background .....1

    1.2 Project Objective.....1

**2.0 SITE CHARACTERIZATION.....2**

    2.1 Geology and Hydrogeology.....2

    2.2 Site Ranking .....2

**3.0 RESPONSE ACTIONS.....3**

    3.1 Soil Excavation Activities .....3

    3.2 Soil Sampling Program .....4

**4.0 DATA EVALUATION .....5**

    4.1 Soil Samples.....5

**5.0 FINDINGS AND RECOMMENDATIONS.....6**

**6.0 STANDARD OF CARE, LIMITATIONS, AND RELIANCE .....7**

**LIST OF APPENDICES**

- Appendix A:** Figure 1 – Topographic Map  
Figure 2 – Site Vicinity Map  
Figure 3 – Site Map
- Appendix B:** Table 1 – Soil Sample Analytical Results
- Appendix C:** Photos
- Appendix D:** Laboratory Analytical Reports & Chain-of-Custody Documentation
- Appendix E:** NMOCD C-141 Documentation
- Appendix F:** State of New Mexico Right-of-Entry Permit
- Appendix G:** Disposal Documentation



## CORRECTIVE ACTION REPORT

**1009 Pipeline Release #2**  
32.480269 N, 103.425138 W  
SE¼ NW ¼, S13 T21S R34E  
Lea County, New Mexico  
NMOCD RP No.: 1RP-4121

Apex Project No. 725010112135

### 1.0 INTRODUCTION

#### 1.1 Site Description & Background

The 1009 Pipeline Release #2 release site is located within the Enterprise Field Services, LLC (Enterprise) pipeline right-of-way (ROW) in the southeast (SE) ¼ of the northeast (NW) ¼ of Section 13 in Township 21 South and Range 34 East in rural Lea County, New Mexico, (32.480269 N, 103.425138 W) referred to hereinafter as the "Site". The Site is located on property consisting of native rangeland periodically interrupted by oil and natural gas production with adjacent gathering facilities, including the Enterprise 1009 natural gas gathering pipeline (1009 pipeline) which traverses the area from southwest to northeast.

On January 19, 2016, Enterprise was notified of a release on a segment of the 1009 pipeline by a third party. Immediate response action commenced in accordance with the Enterprise *General Release Notification, Response and Remediation Plan* (dated March 2015). The pipeline segment was isolated, blown down and repaired by Enterprise subsequent to notification of the release. Approximately 60 barrels (bbls) of natural gas pipeline liquids (NGPL) were released from the pipeline and impacted subsurface soils in the vicinity of the release point within the 1009 pipeline ROW. Enterprise submitted an initial Form C-141 for the release at the Site on January 19, 2016. The associated New Mexico Oil Conservation Division (NMOCD) RP No. is 1RP-4121.

A topographic map depicting the location of the Site is included as Figure 1, and a Site Vicinity Map is included as Figure 2 in Appendix A.

#### 1.2 Project Objective

The primary objectives of the corrective actions were to assess and reduce the concentration of constituents of concern (COCs) in the on-Site soils to below the NMOCD Recommended Remediation Action Levels (RALs) using the New Mexico Energy, Minerals and Natural Resources Division (EMNRD) OCD's *Guidelines for Remediation of Leaks, Spills and Releases* as guidance.

The objectives of Apex TITAN, Inc. (Apex's) scope of services were to:

- 1) Conduct field observations and guide excavation activities during response action activities utilizing a photoionization detector (PID) to measure volatile organic compounds (VOCs) and a salinity meter (ExStik®) to measure chloride, as well as visual and olfactory evidence to evaluate the potential presence and extent of NGPL impacted on-Site soils.
- 2) Collect soil samples from the release point and excavation areas based on visual and olfactory evidence of impairment for analysis of benzene, toluene, ethylbenzene and xylenes (BTEX), total petroleum hydrocarbons (TPH) gasoline range organics (GRO) and diesel range organics (DRO) and chloride.

## 2.0 SITE CHARACTERIZATION

### 2.1 Geology and Hydrogeology

The lithology encountered during soil investigation and remediation activities at the Site consisted of fine sandy loam and sandy clay loam. The publication *Geology and Groundwater Conditions in Southern Lea County, New Mexico*, published by the State Bureau of Mines and Mineral Resources, a division of the New Mexico Institute of Mining and Technology, indicates that the Site is located over Quaternary sand and alluvium underlain by Pliocene calcareous sand capped with a thick layer of caliche, containing some clay, silt and gravel.

### 2.2 Site Ranking

In accordance with the New Mexico ENMRD OCD's *Guidelines for Remediation of Leaks, Spills and Releases*, Apex utilized the general Site characteristics obtained during the completion of corrective action activities and information available from the Office of the New Mexico Office of the State Engineer (NMOSE) online database to determine the appropriate "ranking" for the Site. The ranking criteria and associated scoring are provided in the following table:

Ranking Criteria			Ranking Score
Depth to Groundwater	<50 feet	20	20
	50 to 99 feet	10	
	>100 feet	0	
Wellhead Protection Area <1,000 feet from a water source, or; <200 feet from private domestic water source.	Yes	20	0
	No	0	
Distance to Surface Water Body	<200 feet	20	0
	200 to 1,000 feet	10	
	>1,000 feet	0	
<b>Total Ranking Score</b>			<b>20</b>

Based on Apex's evaluation of the scoring criteria, the Site would have a maximum Total Ranking Score of "20". This ranking is based on the following:

- The approximate depth to the initial groundwater-bearing zone is less than 50 feet.
- No water source wells (municipal/community wells) were identified within 1,000 feet of the Site. No private domestic water sources were identified within 200 feet of the Site.
- The distance to the nearest surface water body is greater than 1,000 feet.

Based on a Total Ranking Score of "20", the recommended COC concentrations for soils remaining in place include:

- 10 milligrams per Kilogram (mg/Kg) for benzene;
- 50 mg/Kg for total BTEX;
- 100 mg/Kg for combined TPH GRO and DRO; and
- 250 mg/Kg for chloride.

### 3.0 RESPONSE ACTIONS

#### 3.1 Soil Excavation Activities

On January 19, 2016, Enterprise was notified of a release on a segment of the 1009 pipeline by a third party. The pipeline segment was isolated, blown down and repaired by Enterprise subsequent to notification of the release. An estimated 60 bbls of NGPL was released from the 1009 pipeline and impacted subsurface soils in the vicinity of the release point within the pipeline ROW. Enterprise submitted an initial Form C-141 for the release at the Site on January 19, 2016. The associated NMOCD RP No. is 1RP-4121. The initial and final Form C-141 are provided in Appendix E.

The initial excavation activities to replace the leaking portion of the pipeline were carried out on February 11, 2016 by NMR Pipeline, LLC (NMR). Excavation activities resumed on February 24, 2016, to over-excavate and remove impacted material from the excavation sidewalls and floor. Apex was present during this time to provide excavation oversight and assist in soil removal utilizing field measurements collected with the PID and salinity meter. Impacted soil was removed from below and surrounding the release point on the 1009 pipeline. Based on Apex's field screening data generated during field activities, the excavation sidewalls and floor required further removal of affected soils.

On November 2, 2016, NMR returned to the Site to complete over-excavation activities in the northeast and south/southwest portion of the excavation. Apex was present during this time to provide excavation oversight and to collect soil samples. Based on laboratory analytical results, additional excavation was required in the southern portion of the excavation, located outside the Enterprise boundaries of 1009 pipeline ROW.

On January 13, 2017, Enterprise submitted a *Right of Entry Request for Remediation* form to Ms. Aubrey Dunn, the State of New Mexico Commissioner of Public Lands in order to continue excavating affected soils located outside the designated 1009 pipeline ROW. On March 24, 2017, the *Right of Entry Request for Remediation* form was approved (Contract No.: ROE-3081). A copy of the Right of Entry Permit for the Site is included in Appendix F.

On May 10, 2017 and May 31, 2017, NMR returned to the Site to complete over-excavation activities outside the 1009 pipeline ROW. Apex was present during this time to provide excavation oversight and to collect soil samples. Based on laboratory analytical results, additional excavation was required in the southern portion of the excavation.

On August 7, 2017, NMR returned to the Site to complete over-excavation activities in the southern portion of the excavation, located outside the 1009 pipeline ROW.

Final excavation dimensions were approximately 95 feet long by 20 to 28 feet wide, with an approximate depth ranging from five (5) feet to 10.5 feet below ground surface (bgs).

Impacted soil was excavated with heavy equipment and staged into one (1) stockpile on-Site. Based on laboratory analytical results of the composite confirmation soil sample collected from the stockpile (STP), the stockpiled soils were transported off-Site for disposal. Approximately 639 tons of impacted soil was transported off-Site for disposal at Lea Land Disposal facility located in Eunice, New Mexico. Subsequent to receipt of confirmation sample analytical results, the excavation was backfilled with non-impacted caliche fill material, compacted utilizing heavy equipment and the area was contoured to approximate original surface grade. Waste disposal manifests are provided in Appendix G.

### 3.2 Soil Sampling Program

Apex's soil sampling program consisted of collecting confirmation soil samples from the on-Site excavation prior to the excavation backfill. Soil samples were observed to document lithology, color, moisture content, and visual and olfactory evidence of petroleum hydrocarbon.

On November 2, 2016, Apex collected seven (7) confirmation soil samples (CS-1 through CS-7) at the Site from the sidewalls of the excavation and areas along the excavation floor, including directly under the point of release on the 1009 pipeline. The confirmation soil samples (CS-1 through CS-3 and CS-6) were collected from the sidewalls of the excavation from an approximate depth of three (3) feet bgs. The confirmation soil samples (CS-4, CS-5 and CS-7) were collected from the excavation floor in the vicinity of the release point from approximate depths ranging from five (5) to 10.5 feet bgs.

Based on initial laboratory analytical results, additional excavation was conducted. On May 10, 2017, subsequent to additional excavation, Apex returned to the Site and collected five (5) confirmation soil samples (CS-3 RE, CS-8, CS-9, CS-10 and CS-11) from the new excavation boundaries and locations within the excavation that previously reflected exceedances in COC concentrations. The confirmation samples (CS-3 RE, CS-8, CS-9, CS-10 and CS-11) were collected along the excavation sidewalls approximate depths ranging from three (3) to six (6) feet bgs.

Based on laboratory analytical results, additional excavation was conducted. On May 31, 2017, subsequent to additional excavation, Apex returned to the Site and collected four (4) confirmation soil samples (CS-9-RE, CS-9-RE2, CS-10-RE and CS-10-RE2) from locations that previously reflected exceedances in the COC concentrations. The confirmation soil samples were collected along the southern portion of the excavation sidewall, located outside the 1009 Pipeline ROW, from approximate depths ranging from three (3) to six (6) feet bgs. In addition, Apex collected a composite soil sample (STP) from the stockpiled soils on-Site.

Based on laboratory analytical results, additional excavation was conducted. On August 7, 2017, subsequent to additional excavation, Apex returned to the Site and collected two (2) confirmation soil samples (CS-9-RE3 and CS-10-RE3) from locations that previously reflected exceedances in the COC concentrations. The confirmation soil samples were collected from the southern portion of the excavation sidewall, located outside the 1009 Pipeline ROW, from approximate depths ranging from four (4) to six (6) feet bgs.

Soil samples were collected in laboratory supplied glass containers, cooled to approximately 4°C, and transported under proper chain-of-custody procedures and documentation. Soil samples were submitted for analysis under chain-of-custody control to Xenco Laboratories in Midland, Texas. Soil samples were analyzed for TPH GRO/DRO utilizing Environmental Protection Agency (EPA) Method 8015B, BTEX utilizing EPA Method 8021B and chloride utilizing EPA method 300.

Executed chain-of-custody forms and laboratory data sheets are provided in Appendix D. All samples were analyzed within specified holding times.

Figure 3 is a Site Map that indicates the approximate location of the excavated area and the stockpile in relation to pertinent land features and general Site boundaries (Appendix A).

## 4.0 DATA EVALUATION

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD. To address activities related to condensate releases, the New Mexico EMNRD OCD utilizes the *Guidelines for Remediation of Leaks, Spills and Releases* as guidance, in addition to the OCD rules, specifically New Mexico Administrative Code 19.15.29 *Remediation Plan*. These guidance documents establish investigation and abatement action requirements for sites subject to reporting and/or corrective action.

### 4.1 Soil Samples

Apex compared the benzene, total BTEX, TPH GRO/DRO/ORO and chloride concentrations or laboratory reporting limits (RLs) associated with the soil samples collected from the Site to the OCD *Recommended Remediation Action Levels* (RALs) for sites having a total ranking score of "20".

#### Benzene

The excavation confirmation soil samples (CS-1 through CS-11) did not exhibit benzene concentrations above the laboratory RLs, which are below the OCD RAL of 10 mg/Kg for a Site Ranking of "20".

The stockpile composite soil sample (STP) did not exhibit a benzene concentration above the laboratory RL, which is below the OCD RAL of 10 mg/Kg for a Site Ranking of "20".

#### Total BTEX

The excavation confirmation soil samples (CS-1 through CS-11) indicated total BTEX concentrations ranging from below the laboratory RLs to 0.0146 mg/Kg, which are below the OCD RAL of 50 mg/Kg for a Site Ranking of "20".

The stockpile composite soil sample (STP) did not exhibit a total BTEX concentration above the laboratory RL, which is below the OCD RAL of 50 mg/Kg for a Site Ranking of "20".

#### TPH

The final excavation confirmation soil samples (CS-1, CS-2, CS-3-RE, CS-4 through CS-8, CS-9-RE3, CS-10-RE3 and CS-11) indicated total TPH concentrations ranging from below the laboratory RLs to 38.1 mg/Kg, which are below the OCD RAL of 100 mg/Kg for a Site Ranking of "20".

The stockpile composite soil sample (STP) indicated a combined TPH GRO/DRO concentration of 487 mg/Kg, which above the OCD RAL of 100 mg/Kg for a Site Ranking of "20".

#### Chloride

The final excavation confirmation soil samples (CS-1, CS-2, CS-3-RE, CS-4 through CS-8, CS-9-RE3, CS-10-RE3 and CS-11) indicated chloride concentrations ranging from 17.5 mg/Kg to 96.8 mg/Kg, which are below the OCD RAL of 250 mg/Kg for a Site Ranking of "20".

The stockpile composite soil sample (STP) indicated a chloride concentration of 925 mg/Kg, which above the OCD RAL of 250 mg/Kg for a Site Ranking of "20".

Laboratory analytical results are summarized in the table included in Appendix B. The executed chain-of-custody forms and laboratory data sheets are provided in Appendix D.

## 5.0 FINDINGS AND RECOMMENDATIONS

### Findings

The 1009 Pipeline Release #2 release site is located within the Enterprise pipeline ROW in the SE  $\frac{1}{4}$  of the NW  $\frac{1}{4}$  of Section 13 in Township 21 South and Range 34 East in rural Lea County, New Mexico, (32.480269 N, 103.425138 W). The Site is located on property consisting of native rangeland periodically interrupted by oil and natural gas production with adjacent gathering facilities, including the Enterprise 1009 pipeline.

On January 19, 2016, Enterprise was notified of a release on a segment of the 1009 pipeline by a third party. Immediate response action commenced in accordance with the Enterprise *General Release Notification, Response and Remediation Plan* (dated March 2015). The pipeline segment was isolated, blown down and repaired by Enterprise subsequent to notification of the release. Approximately 60 bbls of NGPL was released from the pipeline and impacted subsurface soils in the vicinity of the release point within the 1009 pipeline ROW. Enterprise submitted an initial Form C-141 for the release at the Site on January 19, 2016 (RP No.: 1RP-4121). Under the supervision of Enterprise personnel, NGPL affected soils were excavated by NMR.

- The primary objective of the corrective actions was to evaluate the presence, magnitude and extent of COCs in the soil affected by the release of NGPL from the 1009 pipeline.
- On-Site remediation included excavation of the affected area impacted by the release of NGPL, starting from the release point. The final excavated area measured approximately 95 feet long by 20 to 28 feet wide, with an approximate depth ranging from five (5) feet to 10.5 feet bgs.
- Impacted soil was excavated with heavy equipment and staged into one (1) stockpile on-Site (STP). The stockpile was transported off-Site for disposal at Lea Land Disposal Facility located in Eunice, New Mexico.
- The soils remaining in place near the release point on the 1009 pipeline do not exhibit benzene, total BTEX, total TPH and/or chloride concentrations above the OCD RALs for a Site Ranking of "20".
- Approximately 639 tons of excavated impacted soil was transported off-Site to Lea Land disposal facility in Eunice, New Mexico. Subsequent to receipt of confirmation sample analytical results, the excavation was backfilled with non-impacted caliche fill material, compacted utilizing heavy equipment and the area was contoured to approximate original surface grade.

### Recommendations

**Based on field observations and laboratory analytical results, no additional investigation or corrective action appears warranted at this time.**

## 6.0 STANDARD OF CARE, LIMITATIONS, AND RELIANCE

Apex's services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Apex makes no warranties, expressed or implied, as to the services performed hereunder. Additionally, Apex does not warrant the work of third parties supplying information used in the report (e.g. laboratories, regulatory agencies, or other third parties). This scope of services was performed in accordance with the scope of work agreed with the client.

Findings, conclusions and recommendations resulting from these services are based upon information derived from the on-Site activities and other services performed under this scope of work and it should be noted that this information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and Apex cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this scope of services. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Apex's findings and recommendations are based solely upon data available to Apex at the time of these services.

This report has been prepared for the exclusive use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the expressed written authorization of Enterprise and Apex. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the proposal, the report, and Apex's Agreement. The limitation of liability defined in the agreement is the aggregate limit of Apex's liability to the client.

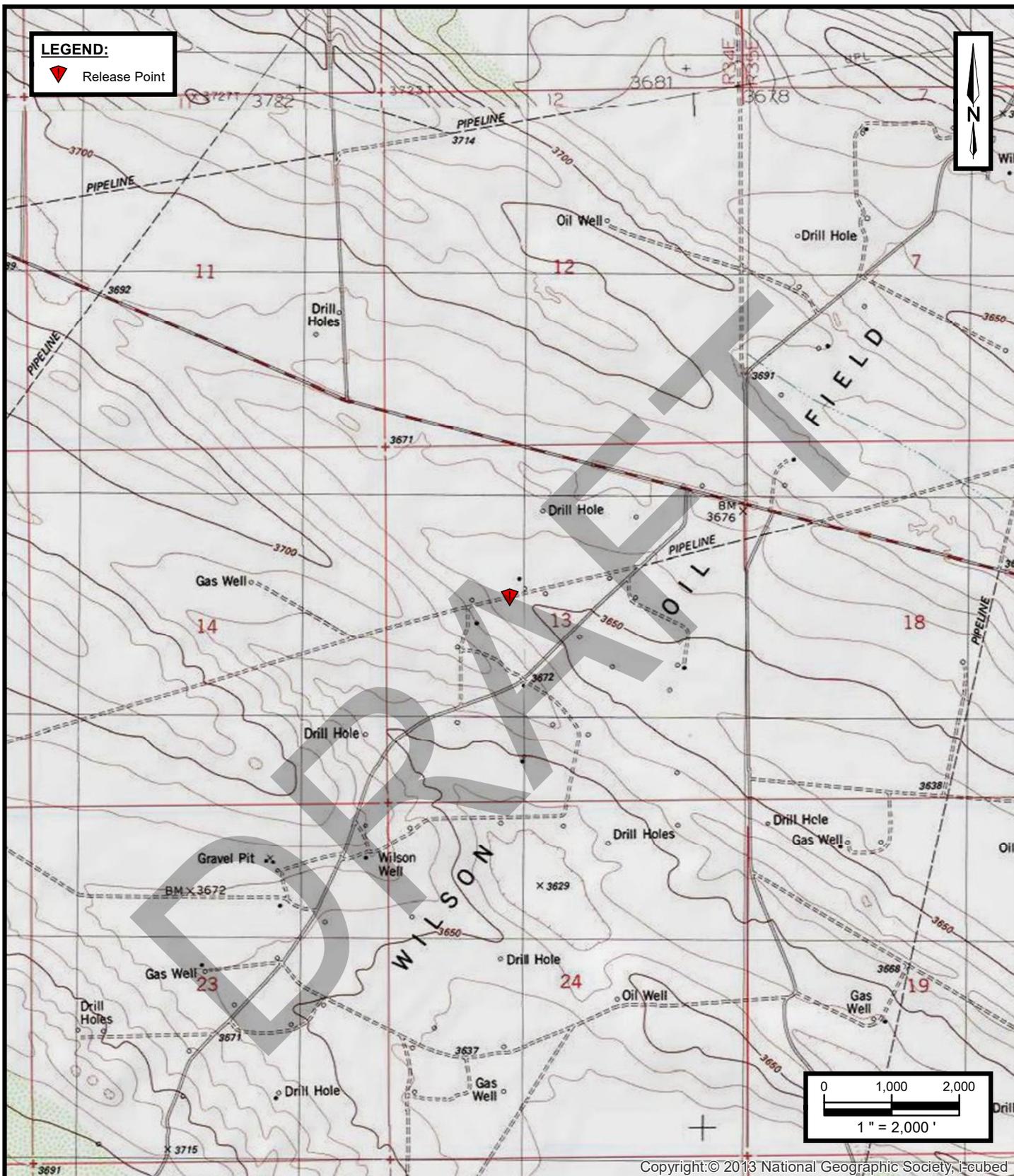
DRAFT



DRAFT

APPENDIX A

Figures



Enterprise Field Services LLC.  
 1009 Pipeline Release #2  
 Lea County, New Mexico  
 32.480269 N, 103.425138 W

Project No. 725010112135



**Apex TITAN, Inc.**  
 505 N Big Spring St., Suite 301A  
 Midland, Texas 79701  
 Phone: (432) 695-6016  
[www.apexcos.com](http://www.apexcos.com)  
 A Subsidiary of Apex Companies, LLC

**FIGURE 1**

**Topographic Map**

San Simon Ranch  
 New Mexico Quadrangle  
 1984



Enterprise Field Services LLC.  
 1009 Pipeline Release #2  
 Lea County, New Mexico  
 32.480269 N, 103.425138 W

Project No. 725010112135



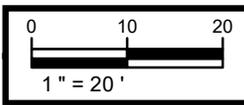
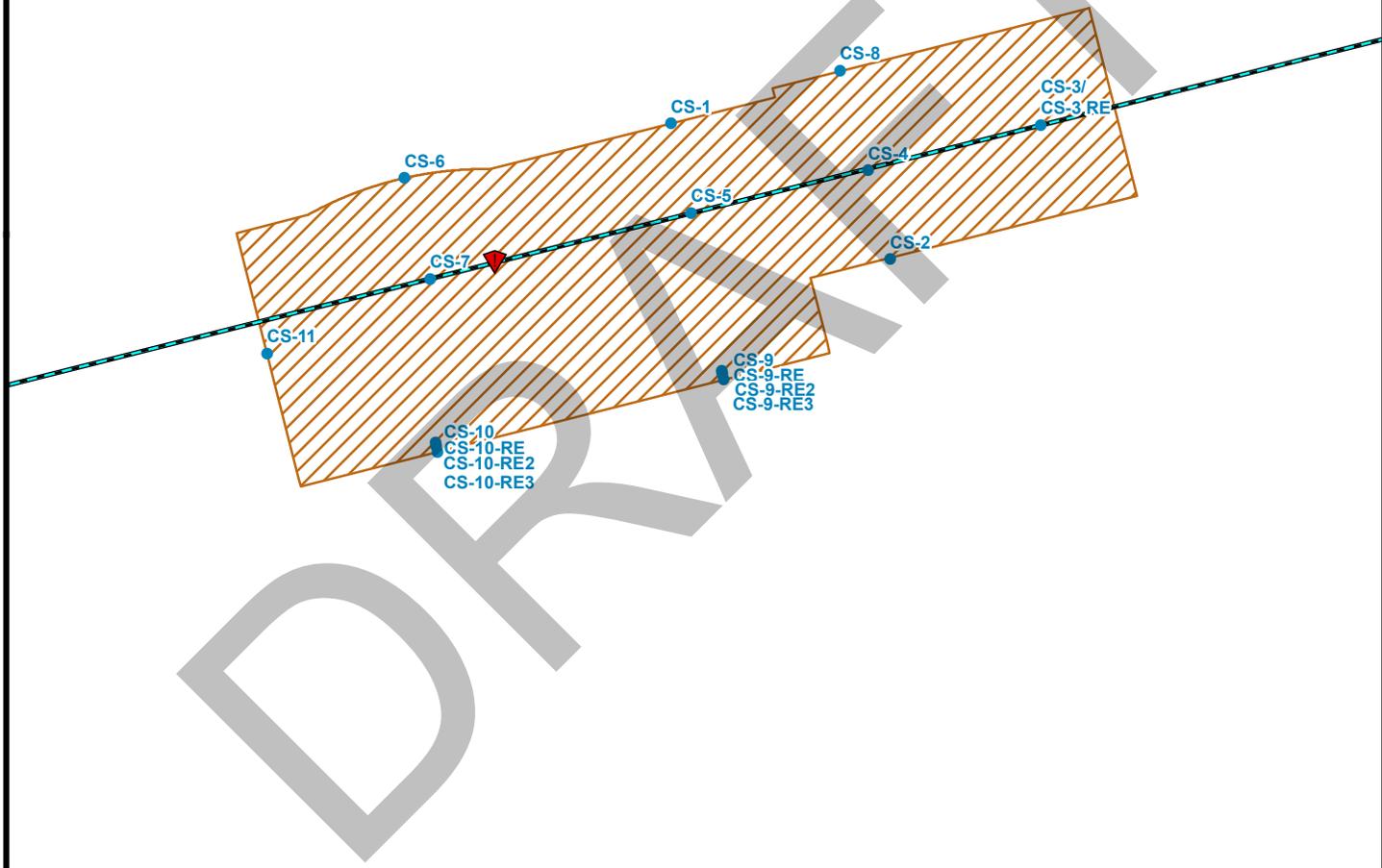
**Apex TITAN, Inc.**  
 505 N Big Spring St., Suite 301A  
 Midland, Texas 79701  
 Phone: (432) 695-6016  
[www.apexcos.com](http://www.apexcos.com)  
 A Subsidiary of Apex Companies, LLC

**FIGURE 2**  
**Site Vicinity Map**  
 Aerial Photograph February 2014



**LEGEND:**

- Confirmation Sample Location
- ▼ Release Point
- Enterprise 1009 Pipeline
- ▨ Soil Stockpile Location
- ▨ Extent of Excavation



**Enterprise Field Services LLC.**  
**1009 Pipeline Release #2**  
 Lea County, New Mexico  
 32.480269 N, 103.425138 W

Project No. 725010112135



**Apex TITAN, Inc.**  
 505 N Big Spring St., Suite 301A  
 Midland, Texas 79701  
 Phone: (432) 695-6016  
[www.apexcos.com](http://www.apexcos.com)  
 A Subsidiary of Apex Companies, LLC

**FIGURE 3**

**Site Map**



DRAFT

APPENDIX B

Tables

**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
**1009 Pipeline Release #2**

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylenes (mg/Kg)	Total BTEX (mg/Kg)	TPH GRO (mg/Kg)	TPH DRO (mg/Kg)	TPH ORO (mg/Kg)	Total TPH (mg/Kg)	Chloride (mg/Kg)	
New Mexico Oil Conservation Division (NMOCD) Recommended Remediation Action Level (RAL) (Site Ranking: 20)			10	NE			50	NE			100	250	
<b>EXCAVATION CONFIRMATION SAMPLE ANALYTICAL RESULTS</b>													
CS-1	11/2/2016	3	<0.00150	<0.00200	<0.00200	<0.00200	<0.00150	<15.0	<15.0	NA	<15.0	23.4	
CS-2	11/2/2016	3	<0.00149	<0.00198	<0.00198	<0.00198	<0.00149	15.1	23.0	NA	38.1	23.4	
CS-3	11/2/2016	3	<0.00149	<0.00199	<0.00199	<0.00199	<0.00149	<15.0	395	NA	395	81.0	
CS-3 RE	5/10/2017	3	NA					<15.0	<15.0	<15.0	<15.0	NA	
CS-4	11/2/2016	5	<0.00150	<0.00200	<0.00200	<0.00200	<0.00150	<15.0	<15.0	NA	<15.0	20.9	
CS-5	11/2/2016	5	<0.00149	<0.00199	<0.00199	<0.00199	<0.00149	<15.0	<15.0	NA	<15.0	20.0	
CS-6	11/2/2016	3	<0.00150	<0.00200	<0.00200	<0.00200	<0.00150	<15.0	<15.0	NA	<15.0	28.3	
CS-7	11/2/2016	10.5	<0.00149	<0.00198	<0.00198	<0.00198	<0.00149	<15.0	<15.0	NA	<15.0	17.5	
CS-8	5/10/2017	3	<0.00560	<0.00560	<0.00560	<0.00560	<0.00560	<14.9	23.4	<14.9	23.4	90.0	
CS-9	5/10/2017	3	<0.00586	<0.00586	<0.00586	0.0146	0.0146	<15.0	22.2	<15.0	22.2	477	
CS-9-RE	5/31/2017	3	NA					NA					451
CS-9-RE2	5/31/2017	3	NA					NA					520
CS-9-RE3	8/7/2017	4	NA					NA					84.6
CS-10	5/10/2017	6	<0.00558	<0.00558	<0.00558	<0.00558	<0.00558	<15.0	27.3	<15.0	27.3	538	
CS-10-RE	5/31/2017	6	NA					NA					591
CS-10-RE2	5/31/2017	6	NA					NA					689
CS-10-RE3	8/7/2017	6	NA					NA					71.7
CS-11	5/10/2017	6	<0.00570	<0.00570	<0.00570	<0.00570	<0.00570	<15.0	<15.0	<15.0	<15.0	96.8	
<b>STOCKPILE COMPOSITE SAMPLE ANALYTICAL RESULTS</b>													
STP	5/31/2017	NA	<0.00348	<0.00348	<0.00348	<0.00348	<0.00348	16.1	386	NA	487	925	

Note: Concentrations in **bold** and yellow exceed the applicable OCD Remediation Action Levels

: indicates overexcavation and/or resample.

bgs: below ground surface

DRO: Diesel Range Organics

GRO: Gasoline Range Organics

mg/Kg: milligrams per Kilogram

NA: Not Analyzed

NE: Not Established

ORO: Oil Range Organics



DRAFT

## APPENDIX C

### Photo Documentation

---

### SITE PHOTOS

1009 Pipeline Release #2



View of initial excavation activities, facing northeast.



View of initial excavation and placement of stockpiled soils, facing southwest.



View of excavation area and stockpiles subsequent to over-excavation activities, facing northeast.



View of stockpiled soils generated during over-excavation activities, facing northeast.



View of final excavation boundaries, facing north.



DRAFT

## APPENDIX D

### Laboratory Analytical Reports & Chain of Custody Documentation

---

# Analytical Report 539655

for  
**APEX/Titan**

**Project Manager: Karolanne Toby**

**1009 Pipeline Release #2**

**725010112135**

**04-NOV-16**

Collected By: Client



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

Xenco-Houston (EPA Lab code: TX00122):  
Texas (T104704215), Arizona (AZ0765), Florida (E871002), Louisiana (03054)  
Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400)

Xenco-San Antonio: Texas (T104704534)

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

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)



# Table of Contents

Cover Page	1
Cover Letter	3
Sample ID Cross Reference	4
Case Narrative	5
Certificate of Analysis Summary	6
Explanation of Qualifiers (Flags)	8
Surrogate Recoveries	9
LCS / LCSD Recoveries	14
MS / MSD Recoveries	16
Chain of Custody	18
Sample Receipt Conformance Report	19

DRAFT



04-NOV-16

Project Manager: **Karolanne Toby**

**APEX/Titan**

505 N. Big Spring Ste. 301 A

Midland, TX 79701

Reference: XENCO Report No(s): **539655**

**1009 Pipeline Release #2**

Project Address:

**Karolanne Toby:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 539655. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 539655 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

**Kelsey Brooks**

Project Manager

*Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.*

*Certified and approved by numerous States and Agencies.*

*A Small Business and Minority Status Company that delivers SERVICE and QUALITY*

Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America



# Sample Cross Reference 539655

## APEX/Titan, Midland, TX

1009 Pipeline Release #2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CS-1	S	11-02-16 13:05	3 ft	539655-001
CS-2	S	11-02-16 13:08	3 ft	539655-002
CS-3	S	11-02-16 13:14	3 ft	539655-003
CS-4	S	11-02-16 13:17	5 ft	539655-004
CS-5	S	11-02-16 13:20	5 ft	539655-005
CS-6	S	11-02-16 13:26	3 ft	539655-006
CS-7	S	11-02-16 15:15	10.5 ft	539655-007

DRAFT



# CASE NARRATIVE

**Client Name:** APEX/Titan

**Project Name:** 1009 Pipeline Release #2

Project ID: 725010112135  
Work Order Number(s): 539655

Report Date: 04-NOV-16  
Date Received: 11/02/2016

**Sample receipt non conformances and comments:**

**Sample receipt non conformances and comments per sample:**

None

**Analytical non conformances and comments:**

Batch: LBA-3003278 BTEX by EPA 8021B

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

DRAFT



# Certificate of Analysis Summary 539655

APEX/Titan, Midland, TX

Project Name: 1009 Pipeline Release #2

**Project Id:** 725010112135  
**Contact:** Karolanne Toby  
**Project Location:**

**Date Received in Lab:** Wed Nov-02-16 05:50 pm  
**Report Date:** 04-NOV-16  
**Project Manager:** Kelsey Brooks

<i>Analysis Requested</i>	<i>Lab Id:</i>	539655-001	539655-002	539655-003	539655-004	539655-005	539655-006					
	<i>Field Id:</i>	CS-1	CS-2	CS-3	CS-4	CS-5	CS-6					
	<i>Depth:</i>	3- ft	3- ft	3- ft	5- ft	5- ft	3- ft					
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL					
	<i>Sampled:</i>	Nov-02-16 13:05	Nov-02-16 13:08	Nov-02-16 13:14	Nov-02-16 13:17	Nov-02-16 13:20	Nov-02-16 13:26					
<b>BTEX by EPA 8021B</b>	<i>Extracted:</i>	Nov-03-16 18:00										
	<i>Analyzed:</i>	Nov-03-16 23:27	Nov-04-16 12:54	Nov-04-16 11:33	Nov-04-16 11:49	Nov-04-16 12:05	Nov-04-16 12:21					
	<i>Units/RL:</i>	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg					
		RL	RL	RL	RL	RL	RL					
Benzene	<0.00150	0.00150	<0.00149	0.00149	<0.00149	0.00149	<0.00150	0.00150				
Toluene	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200				
Ethylbenzene	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200				
m,p-Xylenes	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200				
o-Xylene	<0.00300	0.00300	<0.00298	0.00298	<0.00298	0.00298	<0.00300	0.00300				
Total Xylenes	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200				
Total BTEX	<0.00150	0.00150	<0.00149	0.00149	<0.00149	0.00149	<0.00150	0.00150				
<b>Inorganic Anions by EPA 300</b>	<i>Extracted:</i>	Nov-03-16 10:00										
	<i>Analyzed:</i>	Nov-03-16 10:38	Nov-03-16 10:59	Nov-03-16 11:06	Nov-03-16 11:13	Nov-03-16 11:20	Nov-03-16 12:10					
	<i>Units/RL:</i>	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg					
RL		RL	RL	RL	RL	RL						
Chloride	23.4	5.00	23.4	5.00	81.0	5.00	20.9	5.00	20.0	5.00	28.3	5.00
<b>TPH by SW 8015B</b>	<i>Extracted:</i>	Nov-03-16 12:00										
	<i>Analyzed:</i>	Nov-03-16 15:39	Nov-03-16 16:52	Nov-03-16 17:16	Nov-03-16 17:39	Nov-03-16 18:03	Nov-03-16 18:27					
	<i>Units/RL:</i>	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg					
RL		RL	RL	RL	RL	RL						
C6-C10 Gasoline Range Hydrocarbons	<15.0	15.0	15.1	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0
C10-C28 Diesel Range Hydrocarbons	<15.0	15.0	23.0	15.0	395	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0
Total TPH	<15.0	15.0	38.1	15.0	395	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0

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

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Kelsey Brooks  
Project Manager



# Certificate of Analysis Summary 539655

APEX/Titan, Midland, TX

Project Name: 1009 Pipeline Release #2

**Project Id:** 725010112135  
**Contact:** Karolanne Toby  
**Project Location:**

**Date Received in Lab:** Wed Nov-02-16 05:50 pm  
**Report Date:** 04-NOV-16  
**Project Manager:** Kelsey Brooks

<b>Analysis Requested</b>	<b>Lab Id:</b>	539655-007				
	<b>Field Id:</b>	CS-7				
	<b>Depth:</b>	10.5- ft				
	<b>Matrix:</b>	SOIL				
	<b>Sampled:</b>	Nov-02-16 15:15				
<b>BTEX by EPA 8021B</b>	<b>Extracted:</b>	Nov-03-16 18:00				
	<b>Analyzed:</b>	Nov-04-16 12:38				
	<b>Units/RL:</b>	mg/kg RL				
	Benzene	<0.00149 0.00149				
	Toluene	<0.00198 0.00198				
	Ethylbenzene	<0.00198 0.00198				
	m,p-Xylenes	<0.00198 0.00198				
	o-Xylene	<0.00298 0.00298				
Total Xylenes	<0.00198 0.00198					
Total BTEX	<0.00149 0.00149					
<b>Inorganic Anions by EPA 300</b>	<b>Extracted:</b>	Nov-03-16 10:00				
	<b>Analyzed:</b>	Nov-03-16 12:17				
	<b>Units/RL:</b>	mg/kg RL				
Chloride		17.5 5.00				
<b>TPH by SW 8015B</b>	<b>Extracted:</b>	Nov-03-16 12:00				
	<b>Analyzed:</b>	Nov-03-16 18:52				
	<b>Units/RL:</b>	mg/kg RL				
	C6-C10 Gasoline Range Hydrocarbons	<15.0 15.0				
C10-C28 Diesel Range Hydrocarbons	<15.0 15.0					
Total TPH	<15.0 15.0					

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

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Kelsey Brooks  
Project Manager



# Flagging Criteria



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

\*\* Surrogate recovered outside laboratory control limit.

**BRL** Below Reporting Limit.

**RL** Reporting Limit

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

**PQL** Practical Quantitation Limit      **SQL** Sample Quantitation Limit      **LOQ** Limit of Quantitation

**DL** Method Detection Limit

**NC** Non-Calculable

+ NELAC certification not offered for this compound.

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

**Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.**

*Certified and approved by numerous States and Agencies.*

*A Small Business and Minority Status Company that delivers SERVICE and QUALITY*

Houston - Dallas - San Antonio - Atlanta - Midland/Odessa - Tampa/Lakeland - Phoenix - Latin America

4147 Greenbriar Dr, Stafford, TX 77477  
 9701 Harry Hines Blvd , Dallas, TX 75220  
 5332 Blackberry Drive, San Antonio TX 78238  
 1211 W Florida Ave, Midland, TX 79701  
 2525 W. Huntington Dr. - Suite 102, Tempe AZ 85282

Phone	Fax
(281) 240-4200	(281) 240-4280
(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(432) 563-1800	(432) 563-1713
(602) 437-0330	



## Form 2 - Surrogate Recoveries

Project Name: 1009 Pipeline Release #2

Work Orders : 539655,

Project ID: 725010112135

Lab Batch #: 3003270

Sample: 539655-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/03/16 15:39

## SURROGATE RECOVERY STUDY

TPH by SW 8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	103	99.9	103	70-135	
o-Terphenyl	52.9	50.0	106	70-135	

Lab Batch #: 3003270

Sample: 539655-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/03/16 16:52

## SURROGATE RECOVERY STUDY

TPH by SW 8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	101	99.7	101	70-135	
o-Terphenyl	52.6	49.9	105	70-135	

Lab Batch #: 3003270

Sample: 539655-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/03/16 17:16

## SURROGATE RECOVERY STUDY

TPH by SW 8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	103	99.8	103	70-135	
o-Terphenyl	52.6	49.9	105	70-135	

Lab Batch #: 3003270

Sample: 539655-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/03/16 17:39

## SURROGATE RECOVERY STUDY

TPH by SW 8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	102	99.8	102	70-135	
o-Terphenyl	52.6	49.9	105	70-135	

Lab Batch #: 3003270

Sample: 539655-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/03/16 18:03

## SURROGATE RECOVERY STUDY

TPH by SW 8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	101	99.7	101	70-135	
o-Terphenyl	51.6	49.9	103	70-135	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.



# Form 2 - Surrogate Recoveries

Project Name: 1009 Pipeline Release #2

Work Orders : 539655,

Project ID: 725010112135

Lab Batch #: 3003270

Sample: 539655-006 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/03/16 18:27

## SURROGATE RECOVERY STUDY

TPH by SW 8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96.8	99.9	97	70-135	
o-Terphenyl	50.2	50.0	100	70-135	

Lab Batch #: 3003270

Sample: 539655-007 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/03/16 18:52

## SURROGATE RECOVERY STUDY

TPH by SW 8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	88.4	99.7	89	70-135	
o-Terphenyl	46.5	49.9	93	70-135	

Lab Batch #: 3003278

Sample: 539655-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/03/16 23:27

## SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0303	0.0300	101	80-120	
4-Bromofluorobenzene	0.0302	0.0300	101	80-120	

Lab Batch #: 3003278

Sample: 539655-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/04/16 11:33

## SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0313	0.0300	104	80-120	
4-Bromofluorobenzene	0.0341	0.0300	114	80-120	

Lab Batch #: 3003278

Sample: 539655-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/04/16 11:49

## SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0282	0.0300	94	80-120	
4-Bromofluorobenzene	0.0273	0.0300	91	80-120	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.



# Form 2 - Surrogate Recoveries

Project Name: 1009 Pipeline Release #2

Work Orders : 539655,

Project ID: 725010112135

Lab Batch #: 3003278

Sample: 539655-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/04/16 12:05

### SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0289	0.0300	96	80-120	
4-Bromofluorobenzene	0.0290	0.0300	97	80-120	

Lab Batch #: 3003278

Sample: 539655-006 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/04/16 12:21

### SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0294	0.0300	98	80-120	
4-Bromofluorobenzene	0.0297	0.0300	99	80-120	

Lab Batch #: 3003278

Sample: 539655-007 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/04/16 12:38

### SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0290	0.0300	97	80-120	
4-Bromofluorobenzene	0.0275	0.0300	92	80-120	

Lab Batch #: 3003278

Sample: 539655-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/04/16 12:54

### SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0277	0.0300	92	80-120	
4-Bromofluorobenzene	0.0302	0.0300	101	80-120	

Lab Batch #: 3003270

Sample: 715717-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 11/03/16 14:27

### SURROGATE RECOVERY STUDY

TPH by SW 8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	124	100	124	70-135	
o-Terphenyl	64.8	50.0	130	70-135	

\* Surrogate outside of Laboratory QC limits  
 \*\* Surrogates outside limits; data and surrogates confirmed by reanalysis  
 \*\*\* Poor recoveries due to dilution  
 Surrogate Recovery [D] = 100 \* A / B  
 All results are based on MDL and validated for QC purposes.



# Form 2 - Surrogate Recoveries

Project Name: 1009 Pipeline Release #2

Work Orders : 539655,

Project ID: 725010112135

Lab Batch #: 3003278

Sample: 715732-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 11/03/16 21:02

### SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0280	0.0300	93	80-120	
4-Bromofluorobenzene	0.0289	0.0300	96	80-120	

Lab Batch #: 3003278

Sample: 715717-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 11/03/16 14:51

### SURROGATE RECOVERY STUDY

TPH by SW 8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	124	100	124	70-135	
o-Terphenyl	63.7	50.0	127	70-135	

Lab Batch #: 3003278

Sample: 715732-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 11/03/16 19:13

### SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0284	0.0300	95	80-120	
4-Bromofluorobenzene	0.0274	0.0300	91	80-120	

Lab Batch #: 3003278

Sample: 715717-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 11/03/16 15:15

### SURROGATE RECOVERY STUDY

TPH by SW 8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	128	100	128	70-135	
o-Terphenyl	63.8	50.0	128	70-135	

Lab Batch #: 3003278

Sample: 715732-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 11/03/16 19:59

### SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0282	0.0300	94	80-120	
4-Bromofluorobenzene	0.0277	0.0300	92	80-120	

\* Surrogate outside of Laboratory QC limits  
 \*\* Surrogates outside limits; data and surrogates confirmed by reanalysis  
 \*\*\* Poor recoveries due to dilution  
 Surrogate Recovery [D] = 100 \* A / B  
 All results are based on MDL and validated for QC purposes.



# Form 2 - Surrogate Recoveries

Project Name: 1009 Pipeline Release #2

Work Orders : 539655,

Project ID: 725010112135

Lab Batch #: 3003270

Sample: 539655-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/03/16 16:03

## SURROGATE RECOVERY STUDY

TPH by SW 8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	118	100	118	70-135	
o-Terphenyl	54.2	50.0	108	70-135	

Lab Batch #: 3003278

Sample: 539655-004 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/03/16 20:15

## SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0317	0.0300	106	80-120	
4-Bromofluorobenzene	0.0303	0.0300	101	80-120	

Lab Batch #: 3003270

Sample: 539655-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/03/16 16:26

## SURROGATE RECOVERY STUDY

TPH by SW 8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	119	99.9	119	70-135	
o-Terphenyl	53.8	50.0	108	70-135	

Lab Batch #: 3003278

Sample: 539655-004 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/03/16 20:30

## SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0288	0.0300	96	80-120	
4-Bromofluorobenzene	0.0305	0.0300	102	80-120	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.



# BS / BSD Recoveries

**Project Name: 1009 Pipeline Release #2**

**Work Order #: 539655**

**Project ID: 725010112135**

**Analyst: PJB**

**Date Prepared: 11/03/2016**

**Date Analyzed: 11/03/2016**

**Lab Batch ID: 3003278**

**Sample: 715732-1-BKS**

**Batch #: 1**

**Matrix: Solid**

**Units: mg/kg**

**BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY**

<b>BTEX by EPA 8021B</b>	<b>Blank Sample Result [A]</b>	<b>Spike Added [B]</b>	<b>Blank Spike Result [C]</b>	<b>Blank Spike %R [D]</b>	<b>Spike Added [E]</b>	<b>Blank Spike Duplicate Result [F]</b>	<b>Blk. Spk Dup. %R [G]</b>	<b>RPD %</b>	<b>Control Limits %R</b>	<b>Control Limits %RPD</b>	<b>Flag</b>
<b>Analytes</b>											
Benzene	<0.00150	0.100	0.0881	88	0.100	0.0979	98	11	70-130	35	
Toluene	<0.00200	0.100	0.0893	89	0.100	0.0994	99	11	70-130	35	
Ethylbenzene	<0.00200	0.100	0.0910	91	0.100	0.100	100	9	71-129	35	
m,p-Xylenes	<0.00200	0.200	0.186	93	0.200	0.205	103	10	70-135	35	
o-Xylene	<0.00300	0.100	0.103	103	0.100	0.0995	100	3	71-133	35	

**Analyst: MNR**

**Date Prepared: 11/03/2016**

**Date Analyzed: 11/03/2016**

**Lab Batch ID: 3003231**

**Sample: 715690-1-BKS**

**Batch #: 1**

**Matrix: Solid**

**Units: mg/kg**

**BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY**

<b>Inorganic Anions by EPA 300</b>	<b>Blank Sample Result [A]</b>	<b>Spike Added [B]</b>	<b>Blank Spike Result [C]</b>	<b>Blank Spike %R [D]</b>	<b>Spike Added [E]</b>	<b>Blank Spike Duplicate Result [F]</b>	<b>Blk. Spk Dup. %R [G]</b>	<b>RPD %</b>	<b>Control Limits %R</b>	<b>Control Limits %RPD</b>	<b>Flag</b>
<b>Analytes</b>											
Chloride	<5.00	250	270	108	250	268	107	1	90-110	20	

Relative Percent Difference RPD = 200\*(C-F)/(C+F)

Blank Spike Recovery [D] = 100\*(C)/[B]

Blank Spike Duplicate Recovery [G] = 100\*(F)/[E]

All results are based on MDL and Validated for QC Purposes



# BS / BSD Recoveries

**Project Name: 1009 Pipeline Release #2**

**Work Order #:** 539655

**Project ID:** 725010112135

**Analyst:** ARM

**Date Prepared:** 11/03/2016

**Date Analyzed:** 11/03/2016

**Lab Batch ID:** 3003270

**Sample:** 715717-1-BKS

**Batch #:** 1

**Matrix:** Solid

**Units:** mg/kg

**BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY**

<b>TPH by SW 8015B</b>	<b>Blank Sample Result [A]</b>	<b>Spike Added [B]</b>	<b>Blank Spike Result [C]</b>	<b>Blank Spike %R [D]</b>	<b>Spike Added [E]</b>	<b>Blank Spike Duplicate Result [F]</b>	<b>Blk. Spk Dup. %R [G]</b>	<b>RPD %</b>	<b>Control Limits %R</b>	<b>Control Limits %RPD</b>	<b>Flag</b>
<b>Analytes</b>											
C6-C10 Gasoline Range Hydrocarbons	<15.0	1000	961	96	1000	952	95	1	70-135	35	
C10-C28 Diesel Range Hydrocarbons	<15.0	1000	1020	102	1000	1020	102	0	70-135	35	

DRAFT

Relative Percent Difference RPD =  $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] =  $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] =  $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



# Form 3 - MS / MSD Recoveries



**Project Name: 1009 Pipeline Release #2**

**Work Order # :** 539655

**Project ID:** 725010112135

**Lab Batch ID:** 3003278

**QC- Sample ID:** 539655-004 S

**Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 11/03/2016

**Date Prepared:** 11/03/2016

**Analyst:** PJB

**Reporting Units:** mg/kg

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY**

<b>BTEX by EPA 8021B</b> <b>Analytes</b>	<b>Parent Sample Result [A]</b>	<b>Spike Added [B]</b>	<b>Spiked Sample Result [C]</b>	<b>Spiked Sample %R [D]</b>	<b>Spike Added [E]</b>	<b>Duplicate Spiked Sample Result [F]</b>	<b>Spiked Dup. %R [G]</b>	<b>RPD %</b>	<b>Control Limits %R</b>	<b>Control Limits %RPD</b>	<b>Flag</b>
Benzene	<0.00149	0.0994	0.0796	80	0.0998	0.0793	79	0	70-130	35	
Toluene	<0.00199	0.0994	0.0826	83	0.0998	0.0818	82	1	70-130	35	
Ethylbenzene	<0.00199	0.0994	0.0825	83	0.0998	0.0809	81	2	71-129	35	
m,p-Xylenes	<0.00199	0.199	0.170	85	0.200	0.166	83	2	70-135	35	
o-Xylene	<0.00298	0.0994	0.0843	85	0.0998	0.0818	82	3	71-133	35	

**Lab Batch ID:** 3003231

**QC- Sample ID:** 539631-009 S

**Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 11/03/2016

**Date Prepared:** 11/03/2016

**Analyst:** MNR

**Reporting Units:** mg/kg

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY**

<b>Inorganic Anions by EPA 300</b> <b>Analytes</b>	<b>Parent Sample Result [A]</b>	<b>Spike Added [B]</b>	<b>Spiked Sample Result [C]</b>	<b>Spiked Sample %R [D]</b>	<b>Spike Added [E]</b>	<b>Duplicate Spiked Sample Result [F]</b>	<b>Spiked Dup. %R [G]</b>	<b>RPD %</b>	<b>Control Limits %R</b>	<b>Control Limits %RPD</b>	<b>Flag</b>
Chloride	12200	5000	17100	98	5000	16900	94	1	90-110	20	

**Lab Batch ID:** 3003231

**QC- Sample ID:** 539655-001 S

**Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 11/03/2016

**Date Prepared:** 11/03/2016

**Analyst:** MNR

**Reporting Units:** mg/kg

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY**

<b>Inorganic Anions by EPA 300</b> <b>Analytes</b>	<b>Parent Sample Result [A]</b>	<b>Spike Added [B]</b>	<b>Spiked Sample Result [C]</b>	<b>Spiked Sample %R [D]</b>	<b>Spike Added [E]</b>	<b>Duplicate Spiked Sample Result [F]</b>	<b>Spiked Dup. %R [G]</b>	<b>RPD %</b>	<b>Control Limits %R</b>	<b>Control Limits %RPD</b>	<b>Flag</b>
Chloride	23.4	250	284	104	250	285	105	0	90-110	20	

Matrix Spike Percent Recovery [D] = 100\*(C-A)/B  
Relative Percent Difference RPD = 200\*(C-F)/(C+F)

Matrix Spike Duplicate Percent Recovery [G] = 100\*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable  
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



# Form 3 - MS / MSD Recoveries



**Project Name: 1009 Pipeline Release #2**

**Work Order # :** 539655

**Project ID:** 725010112135

**Lab Batch ID:** 3003270

**QC- Sample ID:** 539655-001 S

**Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 11/03/2016

**Date Prepared:** 11/03/2016

**Analyst:** ARM

**Reporting Units:** mg/kg

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY**

TPH by SW 8015B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C10 Gasoline Range Hydrocarbons	<15.0	1000	871	87	999	890	89	2	70-135	35	
C10-C28 Diesel Range Hydrocarbons	<15.0	1000	951	95	999	983	98	3	70-135	35	

DRAFT

Matrix Spike Percent Recovery [D] = 100\*(C-A)/B  
Relative Percent Difference RPD = 200\*(C-F)/(C+F)

Matrix Spike Duplicate Percent Recovery [G] = 100\*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable  
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.





# XENCO Laboratories

## Prelogin/Nonconformance Report- Sample Log-In

Client: APEX/Titan

Date/ Time Received: 11/02/2016 05:50:00 PM

Work Order #: 539655

Acceptable Temperature Range: 0 - 6 degC  
Air and Metal samples Acceptable Range: Ambient  
Temperature Measuring device used : R8

### Sample Receipt Checklist

### Comments

- #1 \*Temperature of cooler(s)? 4.1
- #2 \*Shipping container in good condition? N/A
- #3 \*Samples received on ice? Yes
- #4 \*Custody Seal present on shipping container/ cooler? N/A
- #5 \*Custody Seals intact on shipping container/ cooler? N/A
- #6 Custody Seals intact on sample bottles? N/A
- #7 \*Custody Seals Signed and dated? N/A
- #8 \*Chain of Custody present? Yes
- #9 Sample instructions complete on Chain of Custody? Yes
- #10 Any missing/extra samples? No
- #11 Chain of Custody signed when relinquished/ received? Yes
- #12 Chain of Custody agrees with sample label(s)? Yes
- #13 Container label(s) legible and intact? Yes
- #14 Sample matrix/ properties agree with Chain of Custody? Yes
- #15 Samples in proper container/ bottle? Yes
- #16 Samples properly preserved? Yes
- #17 Sample container(s) intact? Yes
- #18 Sufficient sample amount for indicated test(s)? Yes
- #19 All samples received within hold time? Yes
- #20 Subcontract of sample(s)? N/A
- #21 VOC samples have zero headspace (less than 1/4 inch bubble)? N/A
- #22 <2 for all samples preserved with HNO3,HCL, H2SO4? Except for samples for the analysis of HEM or HEM-SGT which are verified by the analysts. N/A
- #23 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH? N/A

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

Analyst:

PH Device/Lot#:

Checklist completed by:

*Jessica Kramer*

Jessica Kramer

Date: 11/03/2016

Checklist reviewed by:

*Kelsey Brooks*

Kelsey Brooks

Date: 11/03/2016

# Analytical Report 552880

for  
**APEX/Titan**

**Project Manager: Karolanne Toby**

**1009 Pipeline Release #2**

**725010112135**

**15-MAY-17**

Collected By: Client



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

Xenco-Houston (EPA Lab code: TX00122):  
Texas (T104704215), Arizona (AZ0765), Florida (E871002), Louisiana (03054)  
Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400)

Xenco-San Antonio: Texas (T104704534)

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

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)



15-MAY-17

Project Manager: **Karolanne Toby**

**APEX/Titan**

505 N. Big Spring Ste. 301 A

Midland, TX 79701

Reference: XENCO Report No(s): **552880**

**1009 Pipeline Release #2**

Project Address:

**Karolanne Toby:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 552880. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 552880 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

**Kelsey Brooks**

Project Manager

*Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.*

*Certified and approved by numerous States and Agencies.*

*A Small Business and Minority Status Company that delivers SERVICE and QUALITY*

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



# Sample Cross Reference 552880

## APEX/Titan, Midland, TX

1009 Pipeline Release #2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CS-3 RE	S	05-10-17 14:45		552880-001
CS-8	S	05-10-17 12:04		552880-002
CS-9	S	05-10-17 15:30		552880-003
CS-10	S	05-10-17 14:00		552880-004
CS-11	S	05-10-17 16:06		552880-005
CS-6RE	S	05-10-17 14:10		Not Analyzed

DRAFT



# CASE NARRATIVE

**Client Name: APEX/Titan**

**Project Name: 1009 Pipeline Release #2**

Project ID: 725010112135  
Work Order Number(s): 552880

Report Date: 15-MAY-17  
Date Received: 05/11/2017

### Sample receipt non conformances and comments:

### Sample receipt non conformances and comments per sample:

None

#### Analytical non conformances and comments:

Batch: LBA-3017155 BTEX by EPA 8021B

Lab Sample ID 552880-002 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 552880-002, -003, -004, -005.

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

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

DRAFT



# Certificate of Analysis Summary 552880

APEX/Titan, Midland, TX

Project Name: 1009 Pipeline Release #2

**Project Id:** 725010112135  
**Contact:** Karolanne Toby  
**Project Location:**

**Date Received in Lab:** Thu May-11-17 08:34 am  
**Report Date:** 15-MAY-17  
**Project Manager:** Kelsey Brooks

Analysis Requested	Lab Id:	552880-001	552880-002	552880-003	552880-004	552880-005		
	Field Id:	CS-3 RE	CS-8	CS-9	CS-10	CS-11		
	Depth:							
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL		
	Sampled:	May-10-17 14:45	May-10-17 12:04	May-10-17 15:30	May-10-17 14:00	May-10-17 16:06		
<b>BTEX by EPA 8021B</b>	Extracted:		May-11-17 17:00	May-11-17 17:00	May-11-17 17:00	May-11-17 17:00		
	Analyzed:		May-12-17 14:23	May-12-17 15:28	May-12-17 13:42	May-12-17 15:45		
	Units/RL:		mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
	Benzene		<0.00560 0.00560	<0.00586 0.00586	<0.00558 0.00558	<0.00570 0.00570		
	Toluene		<0.00560 0.00560	<0.00586 0.00586	<0.00558 0.00558	<0.00570 0.00570		
	Ethylbenzene		<0.00560 0.00560	<0.00586 0.00586	<0.00558 0.00558	<0.00570 0.00570		
	m,p-Xylenes		<0.0112 0.0112	0.0146 0.0117	<0.0112 0.0112	<0.0114 0.0114		
	o-Xylene		<0.00560 0.00560	<0.00586 0.00586	<0.00558 0.00558	<0.00570 0.00570		
Total Xylenes		<0.00560 0.00560	0.0146 0.00586	<0.00558 0.00558	<0.00570 0.00570			
Total BTEX		<0.00560 0.00560	0.0146 0.00586	<0.00558 0.00558	<0.00570 0.00570			
<b>Inorganic Anions by EPA 300</b>	Extracted:		May-11-17 17:00	May-11-17 17:00	May-11-17 17:00	May-11-17 17:00		
	Analyzed:		May-11-17 22:23	May-11-17 22:30	May-11-17 22:38	May-11-17 22:45		
Units/RL:		mg/kg RL						
Chloride			90.0 4.95	477 4.97	538 4.98	96.8 4.98		
<b>TPH by SW8015 Mod</b>	Extracted:	May-11-17 09:00						
	Analyzed:	May-11-17 17:14	May-11-17 17:40	May-11-17 18:06	May-11-17 18:30	May-11-17 18:54		
	Units/RL:	mg/kg RL						
	C6-C10 Gasoline Range Hydrocarbons		<15.0 15.0	<14.9 14.9	<15.0 15.0	<15.0 15.0	<15.0 15.0	
	C10-C28 Diesel Range Organics		<15.0 15.0	23.4 14.9	22.2 15.0	27.3 15.0	<15.0 15.0	
C28-C35 Oil Range Hydrocarbons		<15.0 15.0	<14.9 14.9	<15.0 15.0	<15.0 15.0	<15.0 15.0		
Total TPH		<15.0 15.0	23.4 14.9	22.2 15.0	27.3 15.0	<15.0 15.0		

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

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Version: 1.9%

Kelsey Brooks  
Project Manager

# Flagging Criteria



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

\*\* Surrogate recovered outside laboratory control limit.

**BRL** Below Reporting Limit.

**RL** Reporting Limit

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

**PQL** Practical Quantitation Limit      **SQL** Sample Quantitation Limit      **LOQ** Limit of Quantitation

**DL** Method Detection Limit

**NC** Non-Calculable

+ NELAC certification not offered for this compound.

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

***Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.***

*Certified and approved by numerous States and Agencies.*

*A Small Business and Minority Status Company that delivers SERVICE and QUALITY*

Houston - Dallas - San Antonio - Atlanta - Midland/Odessa - Tampa/Lakeland - Phoenix - Latin America

4147 Greenbriar Dr, Stafford, TX 77477  
 9701 Harry Hines Blvd , Dallas, TX 75220  
 5332 Blackberry Drive, San Antonio TX 78238  
 1211 W Florida Ave, Midland, TX 79701  
 2525 W. Huntington Dr. - Suite 102, Tempe AZ 85282

Phone	Fax
(281) 240-4200	(281) 240-4280
(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(432) 563-1800	(432) 563-1713
(602) 437-0330	



## Form 2 - Surrogate Recoveries

Project Name: 1009 Pipeline Release #2

Work Orders : 552880,

Project ID: 725010112135

Lab Batch #: 3017125

Sample: 552880-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/11/17 17:14

## SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	101	99.8	101	70-135	
o-Terphenyl	46.4	49.9	93	70-135	

Lab Batch #: 3017125

Sample: 552880-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/11/17 17:40

## SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	101	99.6	101	70-135	
o-Terphenyl	47.1	49.8	95	70-135	

Lab Batch #: 3017125

Sample: 552880-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/11/17 18:06

## SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	102	99.7	102	70-135	
o-Terphenyl	46.7	49.9	94	70-135	

Lab Batch #: 3017125

Sample: 552880-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/11/17 18:30

## SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	105	99.9	105	70-135	
o-Terphenyl	48.1	50.0	96	70-135	

Lab Batch #: 3017125

Sample: 552880-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/11/17 18:54

## SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	106	99.7	106	70-135	
o-Terphenyl	48.7	49.9	98	70-135	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.



# Form 2 - Surrogate Recoveries

Project Name: 1009 Pipeline Release #2

Work Orders : 552880,

Project ID: 725010112135

Lab Batch #: 3017155

Sample: 552880-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/12/17 13:42

## SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0313	0.0300	104	80-120	
4-Bromofluorobenzene	0.0258	0.0300	86	80-120	

Lab Batch #: 3017155

Sample: 552880-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/12/17 14:23

## SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0331	0.0300	110	80-120	
4-Bromofluorobenzene	0.0282	0.0300	94	80-120	

Lab Batch #: 3017155

Sample: 552880-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/12/17 15:28

## SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0285	0.0300	95	80-120	
4-Bromofluorobenzene	0.0273	0.0300	91	80-120	

Lab Batch #: 3017155

Sample: 552880-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/12/17 15:45

## SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0348	0.0300	116	80-120	
4-Bromofluorobenzene	0.0327	0.0300	109	80-120	

Lab Batch #: 3017125

Sample: 724487-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 05/11/17 08:25

## SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	112	100	112	70-135	
o-Terphenyl	52.6	50.0	105	70-135	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.



# Form 2 - Surrogate Recoveries

Project Name: 1009 Pipeline Release #2

Work Orders : 552880,

Project ID: 725010112135

Lab Batch #: 3017155

Sample: 724501-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 05/11/17 09:55

**SURROGATE RECOVERY STUDY**

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0345	0.0300	115	80-120	
4-Bromofluorobenzene	0.0248	0.0300	83	80-120	

Lab Batch #: 3017155

Sample: 724501-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 05/11/17 07:24

**SURROGATE RECOVERY STUDY**

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0354	0.0300	118	80-120	
4-Bromofluorobenzene	0.0323	0.0300	108	80-120	

Lab Batch #: 3017125

Sample: 724487-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 05/11/17 08:48

**SURROGATE RECOVERY STUDY**

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	128	100	128	70-135	
o-Terphenyl	58.2	50.0	116	70-135	

Lab Batch #: 3017155

Sample: 724501-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 05/11/17 07:40

**SURROGATE RECOVERY STUDY**

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0349	0.0300	116	80-120	
4-Bromofluorobenzene	0.0324	0.0300	108	80-120	

Lab Batch #: 3017125

Sample: 724487-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 05/11/17 09:14

**SURROGATE RECOVERY STUDY**

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	125	100	125	70-135	
o-Terphenyl	55.5	50.0	111	70-135	

\* Surrogate outside of Laboratory QC limits  
 \*\* Surrogates outside limits; data and surrogates confirmed by reanalysis  
 \*\*\* Poor recoveries due to dilution  
 Surrogate Recovery [D] = 100 \* A / B  
 All results are based on MDL and validated for QC purposes.



# Form 2 - Surrogate Recoveries

Project Name: 1009 Pipeline Release #2

Work Orders : 552880,

Project ID: 725010112135

Lab Batch #: 3017155

Sample: 552880-002 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/12/17 12:53

### SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0301	0.0300	100	80-120	
4-Bromofluorobenzene	0.0259	0.0300	86	80-120	

Lab Batch #: 3017155

Sample: 552880-002 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/12/17 13:09

### SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0343	0.0300	114	80-120	
4-Bromofluorobenzene	0.0297	0.0300	99	80-120	

DRAFT

\* Surrogate outside of Laboratory QC limits  
 \*\* Surrogates outside limits; data and surrogates confirmed by reanalysis  
 \*\*\* Poor recoveries due to dilution  
 Surrogate Recovery [D] = 100 \* A / B  
 All results are based on MDL and validated for QC purposes.



# BS / BSD Recoveries



**Project Name: 1009 Pipeline Release #2**

**Work Order #: 552880**

**Project ID: 725010112135**

**Analyst: ALJ**

**Date Prepared: 05/11/2017**

**Date Analyzed: 05/11/2017**

**Lab Batch ID: 3017155**

**Sample: 724501-1-BKS**

**Batch #: 1**

**Matrix: Solid**

**Units: mg/kg**

**BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY**

<b>BTEX by EPA 8021B</b>	<b>Blank Sample Result [A]</b>	<b>Spike Added [B]</b>	<b>Blank Spike Result [C]</b>	<b>Blank Spike %R [D]</b>	<b>Spike Added [E]</b>	<b>Blank Spike Duplicate Result [F]</b>	<b>Blk. Spk Dup. %R [G]</b>	<b>RPD %</b>	<b>Control Limits %R</b>	<b>Control Limits %RPD</b>	<b>Flag</b>
<b>Analytes</b>											
Benzene	<0.00996	0.498	0.411	83	0.502	0.399	79	3	70-130	35	
Toluene	<0.00996	0.498	0.389	78	0.502	0.394	78	1	70-130	35	
Ethylbenzene	<0.00996	0.498	0.411	83	0.502	0.401	80	2	71-129	35	
m,p-Xylenes	<0.0199	0.996	0.817	82	1.00	0.792	79	3	70-135	35	
o-Xylene	<0.00996	0.498	0.381	77	0.502	0.396	79	4	71-133	35	

**Analyst: MGO**

**Date Prepared: 05/11/2017**

**Date Analyzed: 05/11/2017**

**Lab Batch ID: 3017146**

**Sample: 724493-1-BKS**

**Batch #: 1**

**Matrix: Solid**

**Units: mg/kg**

**BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY**

<b>Inorganic Anions by EPA 300</b>	<b>Blank Sample Result [A]</b>	<b>Spike Added [B]</b>	<b>Blank Spike Result [C]</b>	<b>Blank Spike %R [D]</b>	<b>Spike Added [E]</b>	<b>Blank Spike Duplicate Result [F]</b>	<b>Blk. Spk Dup. %R [G]</b>	<b>RPD %</b>	<b>Control Limits %R</b>	<b>Control Limits %RPD</b>	<b>Flag</b>
<b>Analytes</b>											
Chloride	<5.00	250	264	106	250	272	109	3	90-110	20	

Relative Percent Difference RPD = 200\*(C-F)/(C+F)

Blank Spike Recovery [D] = 100\*(C)/[B]

Blank Spike Duplicate Recovery [G] = 100\*(F)/[E]

All results are based on MDL and Validated for QC Purposes



# BS / BSD Recoveries



**Project Name: 1009 Pipeline Release #2**

**Work Order #: 552880**

**Project ID: 725010112135**

**Analyst: ARM**

**Date Prepared: 05/11/2017**

**Date Analyzed: 05/11/2017**

**Lab Batch ID: 3017125**

**Sample: 724487-1-BKS**

**Batch #: 1**

**Matrix: Solid**

**Units: mg/kg**

**BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY**

<b>TPH by SW8015 Mod</b>	<b>Blank Sample Result [A]</b>	<b>Spike Added [B]</b>	<b>Blank Spike Result [C]</b>	<b>Blank Spike %R [D]</b>	<b>Spike Added [E]</b>	<b>Blank Spike Duplicate Result [F]</b>	<b>Blk. Spk Dup. %R [G]</b>	<b>RPD %</b>	<b>Control Limits %R</b>	<b>Control Limits %RPD</b>	<b>Flag</b>
<b>Analytes</b>											
C6-C10 Gasoline Range Hydrocarbons	<15.0	1000	997	100	1000	1070	107	7	70-135	35	
C10-C28 Diesel Range Organics	<15.0	1000	1010	101	1000	994	99	2	70-135	35	

DRAFT

Relative Percent Difference RPD =  $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] =  $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] =  $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



# Form 3 - MS / MSD Recoveries



**Project Name: 1009 Pipeline Release #2**

**Work Order # :** 552880

**Project ID:** 725010112135

**Lab Batch ID:** 3017155

**QC- Sample ID:** 552880-002 S

**Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 05/12/2017

**Date Prepared:** 05/11/2017

**Analyst:** ALJ

**Reporting Units:** mg/kg

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY**

<b>BTEX by EPA 8021B</b> <b>Analytes</b>	<b>Parent Sample Result [A]</b>	<b>Spike Added [B]</b>	<b>Spiked Sample Result [C]</b>	<b>Spiked Sample %R [D]</b>	<b>Spike Added [E]</b>	<b>Duplicate Spiked Sample Result [F]</b>	<b>Spiked Dup. %R [G]</b>	<b>RPD %</b>	<b>Control Limits %R</b>	<b>Control Limits %RPD</b>	<b>Flag</b>
Benzene	<0.00542	0.271	0.132	49	0.280	0.146	52	10	70-130	35	X
Toluene	<0.00542	0.271	0.122	45	0.280	0.138	49	12	70-130	35	X
Ethylbenzene	<0.00542	0.271	0.117	43	0.280	0.125	45	7	71-129	35	X
m,p-Xylenes	<0.0108	0.542	0.233	43	0.560	0.247	44	6	70-135	35	X
o-Xylene	<0.00542	0.271	0.111	41	0.280	0.123	44	10	71-133	35	X

**Lab Batch ID:** 3017146

**QC- Sample ID:** 552883-004 S

**Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 05/11/2017

**Date Prepared:** 05/11/2017

**Analyst:** MGO

**Reporting Units:** mg/kg

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY**

<b>Inorganic Anions by EPA 300</b> <b>Analytes</b>	<b>Parent Sample Result [A]</b>	<b>Spike Added [B]</b>	<b>Spiked Sample Result [C]</b>	<b>Spiked Sample %R [D]</b>	<b>Spike Added [E]</b>	<b>Duplicate Spiked Sample Result [F]</b>	<b>Spiked Dup. %R [G]</b>	<b>RPD %</b>	<b>Control Limits %R</b>	<b>Control Limits %RPD</b>	<b>Flag</b>
Chloride	959	249	1160	81	249	1180	89	2	90-110	20	X

Matrix Spike Percent Recovery [D] = 100\*(C-A)/B  
Relative Percent Difference RPD = 200\*(C-F)/(C+F)

Matrix Spike Duplicate Percent Recovery [G] = 100\*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable  
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



Office Location Midland, TX

Project Manager K. Tobey

Sampler's Name Kallen Mann

Sampler's Signature Kallen Mann

Laboratory: Xenco  
Address: \_\_\_\_\_  
Contact: \_\_\_\_\_  
Phone: \_\_\_\_\_  
PO/SO #: \_\_\_\_\_

Proj. No. 72 S010112135

Project Name 1009 Pipeline Release # 2

No./Type of Containers 6

Matrix	Date	Time	Compliance	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 Lt.	250 ml	Glass Jar	P/O	ANALYSIS REQUESTED
S	5-10-17	1445	X	CS-3 RE						1		X
		1204		CS-8								X
		1530		CS-9								X
		1400		CS-10								X
		1606		CS-11								X
S	5-10-17	1410	X	CS-6 RE						1		X

*Water tank N.E.E*

*New Mexico  
\* 24 Hour Rush \**

Turn around time  Normal  25% Rush  50% Rush  100% Rush

Relinquished by (Signature) Kallen Mann Date: 5-11-17 Time: 08:34 Received by (Signature) M. Mendez Date: 5/11/17 Time: 08:34

Matrix Container WW - Wastewater

W - Water AG - Amber / Or Glass 1 Liter

S - Soil SD - Solid 250 ml - Glass wide mouth

L - Liquid A - Air Bag

C - Charcoal tube P/O - Plastic or other

SL - sludge

O - Oil

Apex TITAN, Inc. • 505 N. Big Springs Drive, Suite 301A • Midland, Texas 79701 • Office: 432-695-6016

Temp. 11.6 IR ID: R-9  
CF: (0-6; 0.0°C) (6-23; +0.1°C)  
Corrected Temp: 11.6

552880

CHAIN OF CUSTODY RECORD

Lab use only				
Due Date:				
Temp. of coolers when received (C°):	1	2	3	4
Page	1	of	1	

Lab Sample ID (Lab Use Only)



Client: APEX/Titan

Date/ Time Received: 05/11/2017 08:34:00 AM

Work Order #: 552880

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	1.6
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seal present on shipping container/ cooler?	N/A
#5 *Custody Seals intact on shipping container/ cooler?	N/A
#6 Custody Seals intact on sample bottles?	N/A
#7 *Custody Seals Signed and dated?	N/A
#8 *Chain of Custody present?	Yes
#9 Sample instructions complete on Chain of Custody?	Yes
#10 Any missing/extra samples?	No
#11 Chain of Custody signed when relinquished/ received?	Yes
#12 Chain of Custody agrees with sample label(s)?	Yes
#13 Container label(s) legible and intact?	Yes
#14 Sample matrix/ properties agree with Chain of Custody?	Yes
#15 Samples in proper container/ bottle?	Yes
#16 Samples properly preserved?	Yes
#17 Sample container(s) intact?	Yes
#18 Sufficient sample amount for indicated test(s)?	Yes
#19 All samples received within hold time?	Yes
#20 Subcontract of sample(s)?	N/A
#21 VOC samples have zero headspace?	N/A
#22 <2 for all samples preserved with HNO3,HCL, H2SO4? Except for samples for the analysis of HEM or HEM-SGT which are verified by the analysts.	N/A
#23 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	N/A

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

Analyst:

PH Device/Lot#:

Checklist completed by:

*Marithza Anaya*  
Marithza Anaya

Date: 05/12/2017

Checklist reviewed by:

*Kelsey Brooks*  
Kelsey Brooks

Date: 05/12/2017

# Analytical Report 554298

for  
**APEX/Titan**

**Project Manager: Karolanne Toby**

**Pipeline Release #2**

**725010112135**

**12-JUN-17**

Collected By: Client



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

Xenco-Houston (EPA Lab code: TX00122):  
Texas (T104704215), Arizona (AZ0765), Florida (E871002), Louisiana (03054)  
Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400)

Xenco-San Antonio: Texas (T104704534)

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

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)



12-JUN-17

Project Manager: **Karolanne Toby**

**APEX/Titan**

505 N. Big Spring Ste. 301 A

Midland, TX 79701

Reference: XENCO Report No(s): **554298**

**Pipeline Release #2**

Project Address:

**Karolanne Toby:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 554298. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 554298 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

**Kelsey Brooks**

Project Manager

*Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.*

*Certified and approved by numerous States and Agencies.*

*A Small Business and Minority Status Company that delivers SERVICE and QUALITY*

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



# Sample Cross Reference 554298

## APEX/Titan, Midland, TX

### Pipeline Release #2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CS-9-RE	S	05-31-17 12:10	- 3 ft	554298-001
CS-9-RE2	S	05-31-17 12:20	- 3 ft	554298-002
CS-10-RE	S	05-31-17 12:30	- 6 ft	554298-003
CS-10-RE2	S	05-31-17 12:40	- 6 ft	554298-004
STP	S	05-31-17 13:00		554298-005

DRAFT



# CASE NARRATIVE

*Client Name: APEX/Titan*

*Project Name: Pipeline Release #2*

Project ID: 725010112135  
Work Order Number(s): 554298

Report Date: 12-JUN-17  
Date Received: 05/31/2017

**Sample receipt non conformances and comments:**

**Sample receipt non conformances and comments per sample:**

None

**Analytical non conformances and comments:**

Batch: LBA-3019012 BTEX by EPA 8021B

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

DRAFT



**Certificate of Analytical Results**  
**554298**



**APEX/Titan, Midland, TX**  
**Pipeline Release #2**

Sample Id: **CS-9-RE** Matrix: Soil Sample Depth: 3 ft  
 Lab Sample Id: 554298-001 Date Collected: 05.31.17 12.10 Date Received: 05.31.17 15.25  
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P  
 Analyst: MGO % Moist: Tech: MGO  
 Seq Number: 3018622 Date Prep: 06.01.17 09.15  
 Prep seq: 725438

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	451	4.98	0.855	mg/kg	06.01.17 10:29		1

Sample Id: **CS-9-RE2** Matrix: Soil Sample Depth: 3 ft  
 Lab Sample Id: 554298-002 Date Collected: 05.31.17 12.20 Date Received: 05.31.17 15.25  
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P  
 Analyst: MGO % Moist: Tech: MGO  
 Seq Number: 3019052 Date Prep: 06.06.17 15.15  
 Prep seq: 725682

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	520	4.96	0.852	mg/kg	06.06.17 18:56		1

Sample Id: **CS-10-RE** Matrix: Soil Sample Depth: 6 ft  
 Lab Sample Id: 554298-003 Date Collected: 05.31.17 12.30 Date Received: 05.31.17 15.25  
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P  
 Analyst: MGO % Moist: Tech: MGO  
 Seq Number: 3018622 Date Prep: 06.01.17 09.15  
 Prep seq: 725438

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	591	4.95	0.850	mg/kg	06.01.17 10:52		1

Sample Id: **CS-10-RE2** Matrix: Soil Sample Depth: 6 ft  
 Lab Sample Id: 554298-004 Date Collected: 05.31.17 12.40 Date Received: 05.31.17 15.25  
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P  
 Analyst: MGO % Moist: Tech: MGO  
 Seq Number: 3019052 Date Prep: 06.06.17 15.15  
 Prep seq: 725682

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	689	4.94	0.848	mg/kg	06.06.17 19:03		1



# Certificate of Analytical Results

## 554298



### APEX/Titan, Midland, TX

#### Pipeline Release #2

Sample Id: <b>STP</b>	Matrix: Soil	Sample Depth:
Lab Sample Id: 554298-005	Date Collected: 05.31.17 13.00	Date Received: 05.31.17 15.25
Analytical Method: Inorganic Anions by EPA 300		Prep Method: E300P
Analyst: MGO	% Moist:	Tech: MGO
Seq Number: 3019449	Date Prep: 06.09.17 14.42	
	Prep seq: 725871	

Parameter	CAS Number	Result	MLQ	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	925	4.91	0.843	mg/kg	06.09.17 20:57		1

Analytical Method: TPH by SW8015 Mod	Prep Method: 1005
Analyst: ARM	% Moist:
Seq Number: 3019194	Date Prep: 06.07.17 16.00
	Prep seq: 725773
	Tech: ARM

Parameter	CAS Number	Result	MLQ	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons	PHC610	16.1	15.0	7.98	mg/kg	06.08.17 07:03		1
Diesel Range Organics	C10C28DRO	386	15.0	8.10	mg/kg	06.08.17 07:03		1
Total TPH	PHC635	487		7.98	mg/kg	06.08.17 07:03		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	106	70 - 135	%		
o-Terphenyl	107	70 - 135	%		

Analytical Method: BTEX by EPA 8021B	Prep Method: 5030B
Analyst: ALJ	% Moist:
Seq Number: 3019012	Date Prep: 06.06.17 08.00
	Prep seq: 725660
	Tech: ALJ

Parameter	CAS Number	Result	MLQ	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.00348	0.00348	0.000671	mg/kg	06.07.17 12:26	U	2
Toluene	108-88-3	<0.00348	0.00348	0.000794	mg/kg	06.07.17 12:26	U	2
Ethylbenzene	100-41-4	<0.00348	0.00348	0.000984	mg/kg	06.07.17 12:26	U	2
m,p-Xylenes	179601-23-1	<0.00697	0.00697	0.00177	mg/kg	06.07.17 12:26	U	2
o-Xylene	95-47-6	<0.00348	0.00348	0.000600	mg/kg	06.07.17 12:26	U	2
Total Xylenes	1330-20-7	<0.00348		0.000600	mg/kg	06.07.17 12:26	U	
Total BTEX		<0.00348		0.000600	mg/kg	06.07.17 12:26	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	109	80 - 120	%		
4-Bromofluorobenzene	82	80 - 120	%		



# Certificate of Analytical Results

## 554298

### APEX/Titan, Midland, TX

#### Pipeline Release #2

Sample Id: <b>725438-1-BLK</b>	Matrix: Solid	Sample Depth:
Lab Sample Id: 725438-1-BLK	Date Collected:	Date Received:
Analytical Method: Inorganic Anions by EPA 300	% Moist:	Prep Method: E300P
Analyst: MGO	Date Prep: 06.01.17 09.15	Tech: MGO
Seq Number: 3018622	Prep seq: 725438	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	<5.00	5.00	0.858	mg/kg	06.01.17 09:33	U	1

Sample Id: <b>725660-1-BLK</b>	Matrix: Solid	Sample Depth:
Lab Sample Id: 725660-1-BLK	Date Collected:	Date Received:
Analytical Method: BTEX by EPA 8021B	% Moist:	Prep Method: 5030B
Analyst: ALJ	Date Prep: 06.06.17 08.00	Tech: ALJ
Seq Number: 3019012	Prep seq: 725660	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.00201	0.00201	0.000386	mg/kg	06.06.17 09:48	U	1
Toluene	108-88-3	<0.00201	0.00201	0.000457	mg/kg	06.06.17 09:48	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	0.000567	mg/kg	06.06.17 09:48	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	0.00102	mg/kg	06.06.17 09:48	U	1
o-Xylene	95-47-6	<0.00201	0.00201	0.000346	mg/kg	06.06.17 09:48	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	86	80 - 120	%		
4-Bromofluorobenzene	81	80 - 120	%		

Sample Id: <b>725682-1-BLK</b>	Matrix: Solid	Sample Depth:
Lab Sample Id: 725682-1-BLK	Date Collected:	Date Received:
Analytical Method: Inorganic Anions by EPA 300	% Moist:	Prep Method: E300P
Analyst: MGO	Date Prep: 06.06.17 15.15	Tech: MGO
Seq Number: 3019052	Prep seq: 725682	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	<5.00	5.00	0.858	mg/kg	06.06.17 13:45	U	1



# Certificate of Analytical Results

## 554298



### APEX/Titan, Midland, TX

#### Pipeline Release #2

Sample Id: **725773-1-BLK**

Matrix: Solid

Sample Depth:

Lab Sample Id: 725773-1-BLK

Date Collected:

Date Received:

Analytical Method: TPH by SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 3019194

Date Prep: 06.07.17 16.00

Prep seq: 725773

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons	PHC610	<15.0	15.0	8.00	mg/kg	06.08.17 01:12	U	1
Diesel Range Organics	C10C28DRO	<15.0	15.0	8.13	mg/kg	06.08.17 01:12	U	1
Total TPH	PHC635	<15.0		8.00	mg/kg	06.08.17 01:12	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	112	70 - 135	%		
o-Terphenyl	116	70 - 135	%		

Sample Id: **725871-1-BLK**

Matrix: Solid

Sample Depth:

Lab Sample Id: 725871-1-BLK

Date Collected:

Date Received:

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Analyst: MGO

% Moist:

Tech: MGO

Seq Number: 3019449

Date Prep: 06.09.17 14.42

Prep seq: 725871

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	<5.00	5.00	0.858	mg/kg	06.09.17 17:32	U	1



# Flagging Criteria



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

\*\* Surrogate recovered outside laboratory control limit.

**BRL** Below Reporting Limit.

**RL** Reporting Limit

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

**PQL** Practical Quantitation Limit      **SQL** Sample Quantitation Limit      **LOQ** Limit of Quantitation

**DL** Method Detection Limit

**NC** Non-Calculable

+ NELAC certification not offered for this compound.

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

***Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.***

*Certified and approved by numerous States and Agencies.*

*A Small Business and Minority Status Company that delivers SERVICE and QUALITY*

Houston - Dallas - San Antonio - Atlanta - Midland/Odessa - Tampa/Lakeland - Phoenix - Latin America

4147 Greenbriar Dr, Stafford, TX 77477  
 9701 Harry Hines Blvd , Dallas, TX 75220  
 5332 Blackberry Drive, San Antonio TX 78238  
 1211 W Florida Ave, Midland, TX 79701  
 2525 W. Huntington Dr. - Suite 102, Tempe AZ 85282

Phone	Fax
(281) 240-4200	(281) 240-4280
(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(432) 563-1800	(432) 563-1713
(602) 437-0330	

# Form 2 - Surrogate Recoveries

Project Name: Pipeline Release #2

Work Orders : 554298,

Project ID: 725010112135

Lab Batch #: 3019012

Sample: 725660-1-BKS / BKS

Batch: 1 Matrix: Solid

SURROGATE RECOVERY STUDY					
Units: mg/kg	Date Analyzed: 06/06/17 07:20				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0263	0.0300	88	80-120	
4-Bromofluorobenzene	0.0338	0.0300	113	80-120	

Lab Batch #: 3019012

Sample: 725660-1-BSD / BSD

Batch: 1 Matrix: Solid

SURROGATE RECOVERY STUDY					
Units: mg/kg	Date Analyzed: 06/06/17 07:36				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0269	0.0300	90	80-120	
4-Bromofluorobenzene	0.0304	0.0300	101	80-120	

Lab Batch #: 3019012

Sample: 554633-001 S / MS

Batch: 1 Matrix: Soil

SURROGATE RECOVERY STUDY					
Units: mg/kg	Date Analyzed: 06/06/17 08:26				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0312	0.0300	104	80-120	
4-Bromofluorobenzene	0.0334	0.0300	111	80-120	

Lab Batch #: 3019012

Sample: 554633-001 SD / MSD

Batch: 1 Matrix: Soil

SURROGATE RECOVERY STUDY					
Units: mg/kg	Date Analyzed: 06/06/17 08:42				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0265	0.0300	88	80-120	
4-Bromofluorobenzene	0.0305	0.0300	102	80-120	

Lab Batch #: 3019012

Sample: 725660-1-BLK / BLK

Batch: 1 Matrix: Solid

SURROGATE RECOVERY STUDY					
Units: mg/kg	Date Analyzed: 06/06/17 09:48				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0257	0.0300	86	80-120	
4-Bromofluorobenzene	0.0243	0.0300	81	80-120	

\* Surrogate outside of Laboratory QC limits  
 \*\* Surrogates outside limits; data and surrogates confirmed by reanalysis  
 \*\*\* Poor recoveries due to dilution  
 Surrogate Recovery [D] = 100 \* A / B  
 All results are based on MDL and validated for QC purposes.

# Form 2 - Surrogate Recoveries

Project Name: Pipeline Release #2

Work Orders : 554298,

Project ID: 725010112135

Lab Batch #: 3019194

Sample: 725773-1-BLK / BLK

Batch: 1 Matrix: Solid

SURROGATE RECOVERY STUDY						
Units: mg/kg	Date Analyzed: 06/08/17 01:12	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
TPH by SW8015 Mod						
Analytes						
1-Chlorooctane		112	100	112	70-135	
o-Terphenyl		58.2	50.0	116	70-135	

Lab Batch #: 3019194

Sample: 725773-1-BKS / BKS

Batch: 1 Matrix: Solid

SURROGATE RECOVERY STUDY						
Units: mg/kg	Date Analyzed: 06/08/17 01:34	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
TPH by SW8015 Mod						
Analytes						
1-Chlorooctane		101	100	101	70-135	
o-Terphenyl		51.5	50.0	103	70-135	

Lab Batch #: 3019194

Sample: 725773-1-BSD / BSD

Batch: 1 Matrix: Solid

SURROGATE RECOVERY STUDY						
Units: mg/kg	Date Analyzed: 06/08/17 01:54	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
TPH by SW8015 Mod						
Analytes						
1-Chlorooctane		109	100	109	70-135	
o-Terphenyl		54.1	50.0	108	70-135	

Lab Batch #: 3019194

Sample: 554810-030 S / MS

Batch: 1 Matrix: Soil

SURROGATE RECOVERY STUDY						
Units: mg/kg	Date Analyzed: 06/08/17 02:35	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
TPH by SW8015 Mod						
Analytes						
1-Chlorooctane		100	99.8	100	70-135	
o-Terphenyl		50.1	49.9	100	70-135	

Lab Batch #: 3019194

Sample: 554810-030 SD / MSD

Batch: 1 Matrix: Soil

SURROGATE RECOVERY STUDY						
Units: mg/kg	Date Analyzed: 06/08/17 02:56	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
TPH by SW8015 Mod						
Analytes						
1-Chlorooctane		108	99.9	108	70-135	
o-Terphenyl		52.4	50.0	105	70-135	

\* Surrogate outside of Laboratory QC limits  
 \*\* Surrogates outside limits; data and surrogates confirmed by reanalysis  
 \*\*\* Poor recoveries due to dilution  
 Surrogate Recovery [D] = 100 \* A / B  
 All results are based on MDL and validated for QC purposes.



# BS / BSD Recoveries



**Project Name: Pipeline Release #2**

**Work Order #: 554298**

**Project ID: 725010112135**

**Analyst: ALJ**

**Date Prepared: 06/06/2017**

**Date Analyzed: 06/06/2017**

**Lab Batch ID: 3019012**

**Sample: 725660-1-BKS**

**Batch #: 1**

**Matrix: Solid**

**Units: mg/kg**

**BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY**

<b>BTEX by EPA 8021B</b>	<b>Blank Sample Result [A]</b>	<b>Spike Added [B]</b>	<b>Blank Spike Result [C]</b>	<b>Blank Spike %R [D]</b>	<b>Spike Added [E]</b>	<b>Blank Spike Duplicate Result [F]</b>	<b>Blk. Spk Dup. %R [G]</b>	<b>RPD %</b>	<b>Control Limits %R</b>	<b>Control Limits %RPD</b>	<b>Flag</b>
<b>Analytes</b>											
Benzene	<0.00199	0.0994	0.0955	96	0.0998	0.105	105	9	70-130	35	
Toluene	<0.00199	0.0994	0.102	103	0.0998	0.0982	98	4	70-130	35	
Ethylbenzene	<0.00199	0.0994	0.0902	91	0.0998	0.0878	88	3	71-129	35	
m,p-Xylenes	<0.00398	0.199	0.199	100	0.200	0.192	96	4	70-135	35	
o-Xylene	<0.00199	0.0994	0.105	106	0.0998	0.0913	91	14	71-133	35	

**Analyst: MGO**

**Date Prepared: 06/01/2017**

**Date Analyzed: 06/01/2017**

**Lab Batch ID: 3018622**

**Sample: 725438-1-BKS**

**Batch #: 1**

**Matrix: Solid**

**Units: mg/kg**

**BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY**

<b>Inorganic Anions by EPA 300</b>	<b>Blank Sample Result [A]</b>	<b>Spike Added [B]</b>	<b>Blank Spike Result [C]</b>	<b>Blank Spike %R [D]</b>	<b>Spike Added [E]</b>	<b>Blank Spike Duplicate Result [F]</b>	<b>Blk. Spk Dup. %R [G]</b>	<b>RPD %</b>	<b>Control Limits %R</b>	<b>Control Limits %RPD</b>	<b>Flag</b>
<b>Analytes</b>											
Chloride	<5.00	250	260	104	250	261	104	0	90-110	20	

Relative Percent Difference RPD = 200\*(C-F)/(C+F)

Blank Spike Recovery [D] = 100\*(C)/[B]

Blank Spike Duplicate Recovery [G] = 100\*(F)/[E]

All results are based on MDL and Validated for QC Purposes



# BS / BSD Recoveries



**Project Name: Pipeline Release #2**

**Work Order #: 554298**

**Project ID: 725010112135**

**Analyst: MGO**

**Date Prepared: 06/06/2017**

**Date Analyzed: 06/06/2017**

**Lab Batch ID: 3019052**

**Sample: 725682-1-BKS**

**Batch #: 1**

**Matrix: Solid**

**Units: mg/kg**

**BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY**

Inorganic Anions by EPA 300	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<5.00	250	250	100	250	248	99	1	90-110	20	

**Analyst: MGO**

**Date Prepared: 06/09/2017**

**Date Analyzed: 06/09/2017**

**Lab Batch ID: 3019449**

**Sample: 725871-1-BKS**

**Batch #: 1**

**Matrix: Solid**

**Units: mg/kg**

**BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY**

Inorganic Anions by EPA 300	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<5.00	250	258	103	250	256	102	1	90-110	20	

**Analyst: ARM**

**Date Prepared: 06/07/2017**

**Date Analyzed: 06/08/2017**

**Lab Batch ID: 3019194**

**Sample: 725773-1-BKS**

**Batch #: 1**

**Matrix: Solid**

**Units: mg/kg**

**BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY**

TPH by SW8015 Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons	<15.0	1000	976	98	1000	1070	107	9	70-135	35	
Diesel Range Organics	<15.0	1000	947	95	1000	1030	103	8	70-135	35	

Relative Percent Difference RPD = 200\*(C-F)/(C+F)

Blank Spike Recovery [D] = 100\*(C)/[B]

Blank Spike Duplicate Recovery [G] = 100\*(F)/[E]

All results are based on MDL and Validated for QC Purposes



# Form 3 - MS / MSD Recoveries



**Project Name: Pipeline Release #2**

**Work Order # :** 554298

**Project ID:** 725010112135

**Lab Batch ID:** 3019012

**QC- Sample ID:** 554633-001 S

**Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 06/06/2017

**Date Prepared:** 06/06/2017

**Analyst:** ALJ

**Reporting Units:** mg/kg

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY**

<b>BTEX by EPA 8021B</b> <b>Analytes</b>	<b>Parent Sample Result [A]</b>	<b>Spike Added [B]</b>	<b>Spiked Sample Result [C]</b>	<b>Spiked Sample %R [D]</b>	<b>Spike Added [E]</b>	<b>Duplicate Spiked Sample Result [F]</b>	<b>Spiked Dup. %R [G]</b>	<b>RPD %</b>	<b>Control Limits %R</b>	<b>Control Limits %RPD</b>	<b>Flag</b>
Benzene	<0.00204	0.102	0.0862	85	0.102	0.0789	77	9	70-130	35	
Toluene	<0.00204	0.102	0.0821	80	0.102	0.0788	77	4	70-130	35	
Ethylbenzene	<0.00204	0.102	0.0777	76	0.102	0.0743	73	4	71-129	35	
m,p-Xylenes	<0.00408	0.204	0.174	85	0.205	0.165	80	5	70-135	35	
o-Xylene	<0.00204	0.102	0.0879	86	0.102	0.0838	82	5	71-133	35	

**Lab Batch ID:** 3018622

**QC- Sample ID:** 554298-001 S

**Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 06/01/2017

**Date Prepared:** 06/01/2017

**Analyst:** MGO

**Reporting Units:** mg/kg

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY**

<b>Inorganic Anions by EPA 300</b> <b>Analytes</b>	<b>Parent Sample Result [A]</b>	<b>Spike Added [B]</b>	<b>Spiked Sample Result [C]</b>	<b>Spiked Sample %R [D]</b>	<b>Spike Added [E]</b>	<b>Duplicate Spiked Sample Result [F]</b>	<b>Spiked Dup. %R [G]</b>	<b>RPD %</b>	<b>Control Limits %R</b>	<b>Control Limits %RPD</b>	<b>Flag</b>
Chloride	451	249	719	108	249	715	106	1	90-110	20	

**Lab Batch ID:** 3019052

**QC- Sample ID:** 554471-001 S

**Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 06/06/2017

**Date Prepared:** 06/06/2017

**Analyst:** MGO

**Reporting Units:** mg/kg

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY**

<b>Inorganic Anions by EPA 300</b> <b>Analytes</b>	<b>Parent Sample Result [A]</b>	<b>Spike Added [B]</b>	<b>Spiked Sample Result [C]</b>	<b>Spiked Sample %R [D]</b>	<b>Spike Added [E]</b>	<b>Duplicate Spiked Sample Result [F]</b>	<b>Spiked Dup. %R [G]</b>	<b>RPD %</b>	<b>Control Limits %R</b>	<b>Control Limits %RPD</b>	<b>Flag</b>
Chloride	316	247	572	104	247	563	100	2	90-110	20	

Matrix Spike Percent Recovery [D] = 100\*(C-A)/B  
Relative Percent Difference RPD = 200\*(C-F)/(C+F)

Matrix Spike Duplicate Percent Recovery [G] = 100\*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable  
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



# Form 3 - MS / MSD Recoveries



**Project Name: Pipeline Release #2**

**Work Order # :** 554298

**Project ID:** 725010112135

**Lab Batch ID:** 3019052

**QC- Sample ID:** 554471-011 S

**Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 06/06/2017

**Date Prepared:** 06/06/2017

**Analyst:** MGO

**Reporting Units:** mg/kg

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY**

Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	322	250	565	97	250	565	97	0	90-110	20	

**Lab Batch ID:** 3019449

**QC- Sample ID:** 554810-018 S

**Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 06/12/2017

**Date Prepared:** 06/12/2017

**Analyst:** MGO

**Reporting Units:** mg/kg

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY**

Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	28.9	244	277	102	244	271	99	2	90-110	20	

**Lab Batch ID:** 3019449

**QC- Sample ID:** 554810-031 S

**Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 06/09/2017

**Date Prepared:** 06/09/2017

**Analyst:** MGO

**Reporting Units:** mg/kg

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY**

Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	38.7	248	298	105	248	297	104	0	90-110	20	

Matrix Spike Percent Recovery [D] = 100\*(C-A)/B  
Relative Percent Difference RPD = 200\*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100\*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable  
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



# Form 3 - MS / MSD Recoveries



**Project Name: Pipeline Release #2**

**Work Order # :** 554298

**Project ID:** 725010112135

**Lab Batch ID:** 3019194

**QC- Sample ID:** 554810-030 S

**Batch #:** 1 **Matrix:** Soil

**Date Analyzed:** 06/08/2017

**Date Prepared:** 06/07/2017

**Analyst:** ARM

**Reporting Units:** mg/kg

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY**

TPH by SW8015 Mod  Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons	<15.0	998	1000	100	999	1010	101	1	70-135	35	
Diesel Range Organics	<15.0	998	977	98	999	1010	101	3	70-135	35	

DRAFT

Matrix Spike Percent Recovery [D] = 100\*(C-A)/B  
Relative Percent Difference RPD = 200\*(C-F)/(C+F)

Matrix Spike Duplicate Percent Recovery [G] = 100\*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable  
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



Office Location 505 N. Big Springs St.  
 Suite 301A  
 Midland, TX  
 Project Manager K. Tobey

Laboratory: XUND Lab  
 Address: 211 W Florida Ave  
Midland, TX  
 Contact:  
 Phone:  
 PO/SO #: 725010112135

Sampler's Name Ashley Gihbard  
 Project No. 72501011235  
 Project Name Apex Release #12  
 Identifying Marks of Sample(s)  
 Start Depth 3  
 End Depth 3  
 VOA 5/Glass Jar  
 No/Type of Containers  
 A/G 1 Lt. 5/Glass Jar  
 250 Lt.  
 Glass Jar  
 P/O

Matrix	Date	Time	Com p	g r a b	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 Lt.	250 Lt.	Glass Jar	P/O
S	5/31/12	10			CS-9-RE	3	3					
)	)	1200			CS-9-RE2	3	3					
)	)	1230			CS-10-RE	6	6					
)	)	1240			CS-10-RE2	6	6					
S	5/31/12	300			STP	-	-					

Turn around time	Normal	25% Rush	50% Rush	100% Rush	ANALYSIS REQUESTED	CHAIN OF CUSTODY RECORD
Relinquished by (Signature)	<u>[Signature]</u>	Date: <u>5/31/12</u> Time: <u>15:05</u>	Received by? (Signature)	<u>[Signature]</u>	Date: <u>5/31/12</u> Time: <u>15:05</u>	NOTES: <u>*straight from field</u>
Relinquished by (Signature)	<u>[Signature]</u>	Date: _____ Time: _____	Received by: (Signature)	_____	Date: _____ Time: _____	
Relinquished by (Signature)	<u>[Signature]</u>	Date: _____ Time: _____	Received by: (Signature)	_____	Date: _____ Time: _____	
Relinquished by (Signature)	<u>[Signature]</u>	Date: _____ Time: _____	Received by: (Signature)	_____	Date: _____ Time: _____	

Matrix: WW - Wastewater VOA - 40 ml vial  
 W - Water A/G - Amber / Or Glass 1 Liter  
 S - Soil SD - Solid L - Liquid A - Air Bag  
 C - Charcoal tube SL - sludge O - Oil  
 P/O - Plastic or other

Temp: 5.3 IR ID: R-8  
 CF: (0-6: -0.2°C)  
 (6-23: +0.2°C)  
 Corrected Temp: 5.1

Apex TITAN, Inc. • 505 N. Big Springs Drive, Suite 301A • Midland, Texas 79701 • Office: 432-69



# Analytical Report 559437

for  
**APEX/Titan**

**Project Manager: Karolanne Toby**

**Line 1009#2**

**725010112135**

**09-AUG-17**

Collected By: Client



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

Xenco-Houston (EPA Lab code: TX00122):  
Texas (T104704215), Arizona (AZ0765), Florida (E871002), Louisiana (03054)  
Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400)

Xenco-San Antonio: Texas (T104704534)

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

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)



# Table of Contents

Report Cover	1
Cover Letter	3
Sample ID Cross Reference	4
Case Narrative	5
Certificate of Analysis (Detailed Report)	6
Explanation of Qualifiers (Flags)	8
Blank Spike - Blank Spike Duplicate Recoveries	9
Matrix Spike - Matrix Spike Duplicate Recoveries	10
Chain of Custody	11
COC000	12
Sample Receipt Conformance Report	13

DRAFT



09-AUG-17

Project Manager: **Karolanne Toby**

**APEX/Titan**

505 N. Big Spring Ste. 301 A

Midland, TX 79701

Reference: XENCO Report No(s): **559437**

**Line 1009#2**

Project Address:

**Karolanne Toby:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 559437. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 559437 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

**Kelsey Brooks**

Project Manager

*Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.*

*Certified and approved by numerous States and Agencies.*

*A Small Business and Minority Status Company that delivers SERVICE and QUALITY*

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



# Sample Cross Reference 559437

## APEX/Titan, Midland, TX

Line 1009#2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CS-9-RE3	S	08-07-17 08:30	4 - 4	559437-001
CS-10-RE3	S	08-07-17 08:40	6 - 6	559437-002

DRAFT



# CASE NARRATIVE

**Client Name: APEX/Titan**

**Project Name: Line 1009#2**

Project ID: 725010112135  
Work Order Number(s): 559437

Report Date: 09-AUG-17  
Date Received: 08/07/2017

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

**Sample receipt non conformances and comments:**

Revised report for sample name change per Karolanne's e-mail-- 08/09/17 KB

**Sample receipt non conformances and comments per sample:**

None

DRAFT



# Certificate of Analytical Results

## 559437

**APEX/Titan, Midland, TX**

Line 1009#2

Sample Id: **CS-9-RE3**

Matrix: Soil

Sample Depth: 4 - 4

Lab Sample Id: 559437-001

Date Collected: 08.07.17 08.30

Date Received: 08.07.17 12.55

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst: MGO

% Moist:

Tech: MGO

Seq Number: 3024271

Date Prep: 08.07.17 15.25

Prep seq: 728880

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	84.6	4.96	0.852	mg/kg	08.07.17 21:07		1

Sample Id: **CS-10-RE3**

Matrix: Soil

Sample Depth: 6 - 6

Lab Sample Id: 559437-002

Date Collected: 08.07.17 08.40

Date Received: 08.07.17 12.55

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst: MGO

% Moist:

Tech: MGO

Seq Number: 3024271

Date Prep: 08.07.17 15.25

Prep seq: 728880

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	71.7	4.97	0.853	mg/kg	08.07.17 21:30		1

DRAFT



# Certificate of Analytical Results

## 559437

### APEX/Titan, Midland, TX

Line 1009#2

Sample Id: 728880-1-BLK

Matrix: Solid

Sample Depth:

Lab Sample Id: 728880-1-BLK

Date Collected:

Date Received:

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst: MGO

% Moist:

Tech: MGO

Seq Number: 3024271

Date Prep: 08.07.17 15.25

Prep seq: 728880

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	<0.858	5.00	0.858	mg/kg	08.07.17 20:44	U	1

**DRAFT**



# Flagging Criteria



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

\*\* Surrogate recovered outside laboratory control limit.

**BRL** Below Reporting Limit.

**RL** Reporting Limit

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

**PQL** Practical Quantitation Limit      **SQL** Sample Quantitation Limit      **LOQ** Limit of Quantitation

**DL** Method Detection Limit

**NC** Non-Calculable

+ NELAC certification not offered for this compound.

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

**Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.**

*Certified and approved by numerous States and Agencies.*

*A Small Business and Minority Status Company that delivers SERVICE and QUALITY*

Houston - Dallas - San Antonio - Atlanta - Midland/Odessa - Tampa/Lakeland - Phoenix - Latin America

4147 Greenbriar Dr, Stafford, TX 77477  
 9701 Harry Hines Blvd , Dallas, TX 75220  
 5332 Blackberry Drive, San Antonio TX 78238  
 1211 W Florida Ave, Midland, TX 79701  
 2525 W. Huntington Dr. - Suite 102, Tempe AZ 85282

Phone	Fax
(281) 240-4200	(281) 240-4280
(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(432) 563-1800	(432) 563-1713
(602) 437-0330	



# BS / BSD Recoveries



**Project Name: Line 1009#2**

**Work Order #:** 559437

**Project ID:** 725010112135

**Analyst:** MGO

**Date Prepared:** 08/07/2017

**Date Analyzed:** 08/07/2017

**Lab Batch ID:** 3024271

**Sample:** 728880-1-BKS

**Batch #:** 1

**Matrix:** Solid

**Units:** mg/kg

**BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY**

<b>Chloride by EPA 300</b>	<b>Blank Sample Result [A]</b>	<b>Spike Added [B]</b>	<b>Blank Spike Result [C]</b>	<b>Blank Spike %R [D]</b>	<b>Spike Added [E]</b>	<b>Blank Spike Duplicate Result [F]</b>	<b>Blk. Spk Dup. %R [G]</b>	<b>RPD %</b>	<b>Control Limits %R</b>	<b>Control Limits %RPD</b>	<b>Flag</b>
<b>Analytes</b>											
Chloride	<0.858	250	250	100	250	244	98	2	90-110	20	

DRAFT

Relative Percent Difference RPD =  $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] =  $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] =  $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



# Form 3 - MS / MSD Recoveries



**Project Name: Line 1009#2**

**Work Order # :** 559437  
**Lab Batch ID:** 3024271  
**Date Analyzed:** 08/07/2017  
**Reporting Units:** mg/kg

**Project ID:** 725010112135  
**QC- Sample ID:** 559437-001 S  
**Date Prepared:** 08/07/2017  
**Batch #:** 1 **Matrix:** Soil  
**Analyst:** MGO

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY**

<b>Chloride by EPA 300</b>	<b>Parent Sample Result [A]</b>	<b>Spike Added [B]</b>	<b>Spiked Sample Result [C]</b>	<b>Spiked Sample %R [D]</b>	<b>Spike Added [E]</b>	<b>Duplicate Spiked Sample Result [F]</b>	<b>Spiked Dup. %R [G]</b>	<b>RPD %</b>	<b>Control Limits %R</b>	<b>Control Limits %RPD</b>	<b>Flag</b>
<b>Analytes</b>											
Chloride	84.6	248	329	99	248	332	100	1	90-110	20	

DRAFT

Matrix Spike Percent Recovery [D] = 100\*(C-A)/B  
 Relative Percent Difference RPD = 200\*(C-F)/(C+F)

Matrix Spike Duplicate Percent Recovery [G] = 100\*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable  
 N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



Office Location Midland  
505 N. Big Spring St. Suite 301A  
Midland, TX 79701  
 Project Manager Karlene Tody

Laboratory: Xenco Labs  
 Address: 1211 W Florida Ave  
Midland, TX 79701  
 Contact: Kelsey Brooks  
 Phone: \_\_\_\_\_  
 PO/SO #: 725010112135

Sampler's Name Simon Hudgens

Sampler's Signature [Signature]

Proj. No. 725010112135 Project Name Line 1009 #2 No/Type of Containers \_\_\_\_\_

Matrix	Date	Time	Com p	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 Lt.	250 ml	Glass Jar	P/O
--------	------	------	-------	--------------------------------	-------------	-----------	-----	-----------	--------	-----------	-----

S	8/7/17	0830		CS-9	4	9					
S	8/7/17	0840		CS-10	6	6					

ANALYSIS REQUESTED

Chlorides  
BTEX 8021 B  
PAH Extended Range

CHAIN OF CUSTODY RECORD

Lab use only	Due Date:	Temp. of coolers when received (C°):
		1   2   3   4   5

559437

Lab Sample ID (Lab Use Only)

Temp: 4.9 IR ID: R-8  
 CF: (0-6: -0.2°C)  
 Corrected Temp: 4.7

100% Rush 24HR  
Chlorides only

Turn around time	<input type="checkbox"/> Normal	<input type="checkbox"/> 25% Rush	<input type="checkbox"/> 50% Rush	<input checked="" type="checkbox"/> 100% Rush
Relinquished by (Signature)	Date: _____	Time: _____	Received by (Signature)	Date: _____
Relinquished by (Signature)	Date: _____	Time: _____	Received by (Signature)	Date: _____
Relinquished by (Signature)	Date: _____	Time: _____	Received by (Signature)	Date: _____

Matrix \_\_\_\_\_ W - Wastewater VOA - 40 ml Vial  
 W - Water A/G - Amber / Or Glass 1 Liter  
 S - Soil SD - Solid L - Liquid A - Air Bag  
 C - Charcoal tube P/O - Plastic or other SL - Sludge O - Oil

Apex TITAN, Inc. • 505 N. Big Spring Street, Suite 301A • Midland, Texas 79701 • Office: 432-695-6016



Office Location Midland

505 N. Big Spring St. Suite 301A  
Midland, TX 79701

Project Manager Karolane Taby

Sampler's Name Simon Hudgens

Proj. No. 725010112135

Project Name Line 1009 #2

Sampler's Signature *[Signature]*

Laboratory: Kenco Labs

Address: 1211 W Florida Ave  
Midland, TX 79701

Contact: Kelsey Brooks

Phone: PO/ISO #: 725010112135

No/Type of Containers

Matrix	Date	Time	Com p	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 Lt.	250 ml Glass Jar	P/O
S	8/7/17	0830		CS-9-RE3	4	9				
S	8/7/17	0840		CS-10-RE3	6	7				

ANALYSIS REQUESTED

Chlorides  
BTEX 8021 B  
PAH Extended Range

CHAIN OF CUSTODY RECORD

Lab use only  
Due Date:

Temp. of coolers when received (C°):

1	2	3	4	5
---	---	---	---	---

Page 1 of 1

559437

Lab Sample ID (Lab Use Only)

Temp: 4.9 IR ID: R-8

CF: (0-6: -0.2°C)

(6-23: +0.2°C)

Corrected Temp: 4.7

100% Rush 24HR  
Chlorides only

Turn around time  Normal  25% Rush  50% Rush  100% Rush

Relinquished by (Signature) *[Signature]* Date: 8/7/17 12:55 Time: 12:55 Received by (Signature) *[Signature]* Date: 8-7-17 Time: 12:55

Relinquished by (Signature) *[Signature]* Date: 8/7/17 12:55 Time: 12:55 Received by (Signature) *[Signature]* Date: 8-7-17 Time: 12:55

Relinquished by (Signature) *[Signature]* Date: 8/7/17 12:55 Time: 12:55 Received by (Signature) *[Signature]* Date: 8-7-17 Time: 12:55

Relinquished by (Signature) *[Signature]* Date: 8/7/17 12:55 Time: 12:55 Received by (Signature) *[Signature]* Date: 8-7-17 Time: 12:55

Matrix Container WW - Wastewater VOA - 40 ml vial W - Water A/G - Amber / Or Glass 1 Liter S - Soil SD - Solid L - Liquid A - Air Bag C - Charcoal tube P/O - Plastic or other SL - Sludge O - Oil

Apex TITAN, Inc. • 505 N. Big Spring Street, Suite 301A • Midland, Texas 79701 • Office: 432-695-6016





DRAFT

APPENDIX E

Initial and  
Final C-141



DRAFT

APPENDIX F

Right of Entry Permit



**Aubrey Dunn**  
COMMISSIONER

*State of New Mexico*  
*Commissioner of Public Lands*

310 OLD SANTA FE TRAIL  
P.O. BOX 1148  
SANTA FE, NEW MEXICO 87504-1148

**COMMISSIONER'S OFFICE**

Phone (505) 827-5760  
Fax (505) 827-5766  
www.nmstatelands.org

March 24, 2017

Enterprise Field Services, LLC  
P.O. Box 4324  
Houston, TX 77210

Attn: Alena Miro

Re: Right-of-Entry Permit No.: ROE-3081 Remediation

Dear Ms. Miro:

Enclosed is the completed captioned Right-of-Entry permit. If any corrections are necessary, please let us know and we will retype or amend this permit as necessary.

If you have any questions, or if we may be of further assistance, please do not hesitate to contact Conrad Kegel at 505-827-5789.

Sincerely,

Aubrey Dunn  
Commissioner of Public Lands

AD/CK

Enclosures



**NEW MEXICO STATE LAND OFFICE  
Commissioner of Public Lands  
Aubrey Dunn  
New Mexico State Land Office Building  
P.O. Box 1148, Santa Fe, NM 87504-1148**

**RIGHT OF ENTRY PERMIT  
CONTRACT NO. ROE-3081**

**1. RIGHT OF ENTRY PERMIT**

This permit is issued under the authority of NMSA 1978, Section 19-1-2. Therefore, and in consideration of and subject to the terms, covenants, conditions, agreements, obligations and reservations contained in the permit and all other existing rights, the Commissioner of Public Lands, New Mexico State Land Office, State Of New Mexico, hereinafter called "COMMISSIONER," grants to **Enterprise Field Services, LLC**, whose address is **P.O. Box 4324, Houston, Texas 77210**, hereinafter called "PERMITTEE," authorized use of a specific tract(s) of State Trust Land only for the term, and only for the permitted use, described in this permit.

**2. TERM AND LAND DESCRIPTION**

Right of entry is granted for a term of **180 days**, commencing on the execution date of this document by the Commissioner of Public Lands, to the following State Trust Lands.

**Section 13, Township 21 South, Range 34 East. SE4NW4 Lea County**

**3. APPLICATION and PROCESSING FEE**

- **\$50.00 Application Fee**
- **\$500.00 Permit Fee**
- **\$550.00 Total**

2023 APR 23 11:28 AM

#### **4. PERMITTED USE, PERSONNEL, EQUIPMENT AND MATERIALS**

Permitted use is for the purpose of: **Accessing State Trust Land to perform remediation of soil impacted by natural gas pipeline liquids.**

Personnel present on State Trust Land: **Enterprise Field Services LLC, Apex Titan Inc., and New Mexico Rentals personnel**

Equipment & Materials present on State Trust Land: **Heavy construction quipment for soil removal**

***Prior to execution of project company must contact the Surface Lessees.***

***The granting of this permit does not allow access across private lands.***

#### **5. IMPROVEMENTS**

No improvements shall be placed on the premises without the prior written consent of the Commissioner.

#### **6. RESERVATIONS**

Commissioner reserves the right to execute leases, rights of way, easements, permits, exchange agreements, sale agreements, permits and other lawful rights on or across the land covered by this permit, including but not limited to any such rights for mining purposes and for the extraction of oil, gas, salt, geothermal resources, and other mineral deposits there from and the right to go upon, explore for, mine, remove and sell same.

#### **7. COMPLIANCE WITH LAWS**

Permittee shall at its own expense comply fully with and be subject to all applicable regulations, rules, ordinances, and requirements of law or of the Commissioner, including but not limited to the regulations of the State Land Office; Chapter 19 NMSA governing State Trust Lands; federal and state environmental laws and regulations; and the New Mexico Cultural Properties Act, NMSA 1978 Sections 18-6-1 through 18-6-23. It is illegal for any person or his agent to appropriate, excavate, injure, or destroy any historic, or prehistoric ruin or monument, or any object of historical, archaeological, architectural, or scientific value situated on lands owned or controlled by the State Land Office without a valid permit issued by the Cultural Properties Review Committee and approved by the Commissioner of Public Lands.

2017 MAR 23 AM 8:28

Page 90 of 104

## **8. HOLD HARMLESS AND IMDEMNIFICATION**

Permittee shall save, hold harmless, indemnify and defend Commissioner, the State Land Office, the State of New Mexico, and any of their officers, employees or agents, in their official and individual capacities, of and from any and all liability, claims, losses, damages, costs, and fees arising out of or alleged to arise out of, or directly or indirectly connected with, the operations of Permittee under this permit on or off State Trust Lands or arising out of the presence on State Trust Lands of any equipment, material, agent, invitee, contractor or subcontractor of Permittee. This Hold Harmless and Indemnification clause covers any claim, including any brought in any court or before any administrative agency, of any loss or alleged loss, and any damages or alleged damages asserted with respect to any violation or alleged violation of any state, federal or local law or regulation, including but not limited to any environmental law or regulation, any cultural properties law (including the New Mexico Cultural Properties Act, cited above) or regulation, and any alleged damage to the property, rights or interests of any State Land Office lessee, right-of-way holder, or other permittee.

## **9. AMENDMENT**

This permit shall not be altered, changed, or amended except by an instrument in writing executed by Commissioner and Permittee.

## **10. WITHDRAWAL**

Commissioner reserves the right to withdraw any or all of the land authorized for use under this permit. If applicable, Permittee shall vacate the acreage specified within 30 days after receipt of written notification of withdrawal from the Commissioner.

## **11. CANCELLATION**

The violation by Permittee of any of the terms, conditions, or covenants of this permit or the nonpayment by Permittee of the fees due under this permit shall at the option of the Commissioner be considered a default and shall cause the cancellation of this permit 30 days after Permittee has been sent written notice of such.

## **12. PRESERVE AND PROTECT**

The Permittee agrees to preserve and protect the natural environmental conditions of the land encompassed in this permit, and to take those reclamation or corrective actions that are accepted soil and water conservation practices and that are deemed necessary by the Commissioner to protect the land from pollution, erosion, or other environmental degradation. The Permittee further agrees not to injure the property of, or interfere with the operations or rights of, any State Land Office lessee, right-of-way holder, easement holder or other permittee who has rights to use the State Trust Land subject to this permit.

2017 MAR 23 AM 8:28

### **13. RECLAMATION, REMOVAL OF EQUIPMENT, MATERIALS, AND WASTE**

The Permittee agrees to reclaim those areas that may be damaged by activities conducted thereon.

The Permittee agrees to remove from the State Trust Lands, no later than the end of the term of this permit, all equipment, and materials it has placed or brought upon the land and to clean up and remove from the land any trash, waste, effluent, or other products used or brought upon the land in connection with this permit.

### **14. SPECIAL INSTRUCTIONS AND/OR RESTRICTIONS**

1. No off road traffic allowed.
2. No wood collection or tree cutting allowed.
3. Disturbing, dislodging, damaging, defacing, destroying or removing historical archaeological, paleontological or cultural sites or artifacts in a manner inconsistent with the provisions of the granted permit is prohibited.
4. Disturbing, dislodging, damaging, defacing, destroying any improvement, fixture, item, object or thing placed or located in, under or upon the land is prohibited.
5. This permit does not grant a right to enter State Trust Lands to which there is no public access.
6. Any uses or activities not within the scope of this permit are not allowed unless prior written approval from the Commissioner of Public Lands is granted.

WITNESS the hands and seals of PERMITTEE and COMMISSIONER on the day(s) and year entered below.

[Signature]  
PERMITTEE

Telephone: 713-381-6684

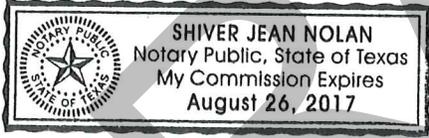
ACKNOWLEDGMENT

STATE OF Texas )

COUNTY OF HARRIS )

The foregoing instrument was acknowledged before me this 26<sup>th</sup> day of MARCH, 20 17.

My Commission Expires: 8-26-2017 [Signature]  
NOTARY PUBLIC



[Signature]  
COMMISSIONER OF PUBLIC LANDS  
AUBREY DUNN



DATE: 3/29/2017

ROE- 3081

2017 MAR 23 AM 8:28

**ROE-3081 Enterprise Field Services, Inc.**

**Legend**

-  ST
-  ST

**DRAFT**

NM230210

SN13

SN



3000 ft

Google earth  
© 2016 Google



DRAFT

## APPENDIX G

### Disposal Documentation

# LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

## LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

*Water Cons*  
25

### NON-HAZARDOUS WASTE MANIFEST

NO **118026**

1. PAGE \_\_\_ OF \_\_\_

2. TRAILER NO. **25**

**G** 3. COMPANY NAME  
**Enterprise Field Services LLC**  
PHONE NO.  
**(575) 885-7238**

4. ADDRESS  
**P.O BOX 1508**  
CITY **Carlsbad** STATE **NM** ZIP **88221**

5. PICK-UP DATE  
**5/10/2017**  
6. TNRCC I.D. NO.

**E** 7. NAME OR DESCRIPTION OF WASTE SHIPPED:  
**Non-Regulated, Non-Hazardous Waste**

8. CONTAINERS  
No. **1** Type **CM**  
9. TOTAL QUANTITY  
10. UNIT Wt/Vol.  
11. TEXAS WASTE ID #

**R** WT:  
d. **46,520 53,860**

**A** 12. COMMENTS OR SPECIAL INSTRUCTIONS:  
**1009 R.O.W.**

13. WASTE PROFILE NO.

*TO 100,380*

**T** 14. **IN CASE OF EMERGENCY OR SPILL, CONTACT**  
NAME **Kin Slaughter** PHONE NO. **575-887-4048** 24-HOUR EMERGENCY NO.

**O** 15. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

**R** PRINTED/TYPED NAME SIGNATURE DATE

**T** 16. **TRANSPORTER (1)**  
NAME: **NEW MEXICO RENTALS**  
TEXAS I.D. NO.  
IN CASE OF EMERGENCY CONTACT: **ALLEN WALKER**  
EMERGENCY PHONE: **(575) 942-1257**

17. **TRANSPORTER (2)**  
NAME:  
TEXAS I.D. NO.  
IN CASE OF EMERGENCY CONTACT:  
EMERGENCY PHONE:

**R** 18. **TRANSPORTER (1):** Acknowledgment of receipt of material  
PRINTED/TYPED NAME **Jose Sotelo**  
SIGNATURE *[Signature]* DATE **5/10/2017**

19. **TRANSPORTER (2):** Acknowledgment of receipt of material  
PRINTED/TYPED NAME \_\_\_\_\_  
SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

**D** **F** **I** **S** **C** **I** **P** **O** **L** **S** **A** **T** **E** **R**  
Lea Land, LLC ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM PHONE: 575-887-4048

PERMIT NO. **WM-01-035 - New Mexico** 20. COMMENTS

21. **DISPOSAL FACILITY'S CERTIFICATION:** I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE *[Signature]* CELL NO. DATE **5/10/2017** TIME **11:50**

# LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

## LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

*CS+M*  
9

### NON-HAZARDOUS WASTE MANIFEST

NO **118027**

1. PAGE \_\_\_ OF \_\_\_

2. TRAILER NO. **9**

GENERATOR	3. COMPANY NAME <b>Enterprise Field Services LLC</b>		4. ADDRESS <b>P.O BOX 1508</b>		5. PICK-UP DATE <b>5/10/2017</b>			
	PHONE NO. <b>(575) 885-7238</b>		CITY <b>Carlsbad</b>	STATE <b>NM</b>	ZIP <b>88221</b>	6. TNRCC I.D. NO.		
	7. NAME OR DESCRIPTION OF WASTE SHIPPED: <b>Non-Regulated, Non Hazardous Waste</b>				8. CONTAINERS No. <b>1</b> Type <b>CM</b>	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
	12. COMMENTS OR SPECIAL INSTRUCTIONS: <b>1009 R.O.W.</b>				13. WASTE PROFILE NO.			
TRANSPORTER	14. IN CASE OF EMERGENCY OR SPILL, CONTACT							
	NAME <b>Kin Slaughter</b>		PHONE NO. <b>575-887-4048</b>		24-HOUR EMERGENCY NO.			
DISPOSAL	15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC							
	PRINTED/TYPED NAME			SIGNATURE		DATE		
	16. TRANSPORTER (1) NAME: <b>NEW MEXICO RENTALS</b> TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: <b>ALLEN WALKER</b> EMERGENCY PHONE: <b>(575) 942-1257</b>			17. TRANSPORTER (2) NAME: TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:				
18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME: <b>Robert Ing...</b> SIGNATURE: <i>[Signature]</i> DATE: <b>5/10/2017</b>			19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME: _____ SIGNATURE: _____ DATE: _____					
DISPOSAL	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM		PHONE: 575-887-4048			
	PERMIT NO. WM-01-035 - New Mexico		20. COMMENTS					
	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.							
AUTHORIZED SIGNATURE <i>[Signature]</i>			CELL NO.		DATE <b>5/10/2017</b>	TIME <b>11:55</b>		

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

COPY 1

# LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

## LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

*Mec*

### NON-HAZARDOUS WASTE MANIFEST

NO **118028**

1. PAGE \_\_\_ OF \_\_\_

2. TRAILER NO. **S4**

GENERATOR	3. COMPANY NAME <b>Enterprise Field Services LLC</b>		4. ADDRESS <b>P.O BOX 1508</b>		5. PICK-UP DATE <b>5/10/2017</b>	
	PHONE NO. <b>(575) 885-7238</b>		CITY <b>Carlsbad</b>	STATE <b>NM</b>	ZIP <b>88221</b>	6. TNRCC I.D. NO.
	7. NAME OR DESCRIPTION OF WASTE SHIPPED: <b>Non-Regulated, Non-Hazardous Waste</b>				8. CONTAINERS No. <b>1</b> Type <b>GM</b>	9. TOTAL QUANTITY
	10. UNIT Wt/Vol.				11. TEXAS WASTE ID #	
RECEIVER	12. COMMENTS OR SPECIAL INSTRUCTIONS: <b>1009 R.O.W.</b>				13. WASTE PROFILE NO.	
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT					
	NAME <b>Kin Slaughter</b>		PHONE NO. <b>575-887-4048</b>		24-HOUR EMERGENCY NO.	
TRANSPORTER	15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC					
	PRINTED/TYPED NAME			SIGNATURE		DATE
	16. TRANSPORTER (1) NAME: <b>NEW MEXICO RENTALS</b>			17. TRANSPORTER (2)		
	TEXAS I.D. NO.			NAME:		
IN CASE OF EMERGENCY CONTACT: <b>ALLEN WALKER</b>			TEXAS I.D. NO.			
EMERGENCY PHONE: <b>(575) 942-1257</b>			IN CASE OF EMERGENCY CONTACT:			
18. TRANSPORTER (1): Acknowledgment of receipt of material			19. TRANSPORTER (2): Acknowledgment of receipt of material			
PRINTED/TYPED NAME: <b>CARL M. CARSEN</b>			PRINTED/TYPED NAME			
SIGNATURE: <i>[Signature]</i> DATE: <b>5/10/2017</b>			SIGNATURE _____ DATE _____			
DISPOSAL	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM		PHONE: 575-887-4048	
	PERMIT NO. <b>WM-01-035 - New Mexico</b>		20. COMMENTS			
	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.					
	AUTHORIZED SIGNATURE <i>[Signature]</i>		CELL NO.	DATE <b>5/10/2017</b>	TIME <b>12:25</b>	

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

COPY 1

# LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 U.S. HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

## LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

*CSDM*

### NON-HAZARDOUS WASTE MANIFEST

NO **118031**

1. PAGE      OF     

2. TRAILER NO. **9**

<b>G</b>	3. COMPANY NAME <b>Enterprise Field Services LLC</b>	4. ADDRESS <b>P.O BOX 1508</b>	5. PICK-UP DATE <b>5/11/2017</b>
	PHONE NO. <b>(575) 885-7238</b>	CITY STATE ZIP <b>Carlsbad NM 88221</b>	6. TNRCC I.D. NO.

<b>E</b>	7. NAME OR DESCRIPTION OF WASTE SHIPPED: <b>Non-Regulated, Non Hazardous Waste</b>	8. CONTAINERS No. Type <b>1 CM</b>	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
	b. <b>48,220</b>				
	c. <b>WTD 53,220 ② 47,420 ③ 52,880</b>				

<b>A</b>	12. COMMENTS OR SPECIAL INSTRUCTIONS: <b>1009 R.O.W. To 201,740</b>	13. WASTE PROFILE NO.
----------	--	-----------------------

<b>T</b>	14. IN CASE OF EMERGENCY OR SPILL, CONTACT		
	NAME <b>Kin Slaughter</b>	PHONE NO. <b>575-887-4048</b>	24-HOUR EMERGENCY NO.

15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

<b>R</b>	PRINTED/TYPED NAME	SIGNATURE	DATE
----------	--------------------	-----------	------

<b>T</b> <b>R</b> <b>A</b> <b>N</b> <b>S</b> <b>P</b> <b>O</b> <b>R</b> <b>T</b> <b>E</b> <b>R</b> <b>S</b>	16. TRANSPORTER (1) NAME: <b>NEW MEXICO RENTALS</b>	17. TRANSPORTER (2) NAME:
	TEXAS I.D. NO.	TEXAS I.D. NO.
	IN CASE OF EMERGENCY CONTACT: <b>ALLEN WALKER</b>	IN CASE OF EMERGENCY CONTACT:
	EMERGENCY PHONE: <b>(575) 942-1257</b>	EMERGENCY PHONE:

<b>18. TRANSPORTER (1):</b> Acknowledgment of receipt of material	<b>19. TRANSPORTER (2):</b> Acknowledgment of receipt of material
PRINTED/TYPED NAME: <b>Robert Triguera</b>	PRINTED/TYPED NAME: _____
SIGNATURE: <i>Robert Triguera</i> DATE: <b>5/11/2017</b>	SIGNATURE: _____ DATE: _____

<b>D</b> <b>F</b> <b>I</b> <b>A</b> <b>S</b> <b>C</b> <b>I</b> <b>P</b> <b>I</b> <b>O</b> <b>L</b> <b>S</b> <b>I</b> <b>A</b> <b>T</b> <b>L</b> <b>Y</b>	Lea Land, LLC	ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	PHONE: 575-887-4048
--	---------------	---	------------------------

PERMIT NO. <b>WM-01-035 - New Mexico</b>	20. COMMENTS
---	--------------

21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.			
AUTHORIZED SIGNATURE <i>Santas Gonzalez</i>	CELL NO.	DATE <b>5/11/2017</b>	TIME <b>9:30</b>

# LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

## LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

WATER CONST.

### NON-HAZARDOUS WASTE MANIFEST

NO 118032

1. PAGE \_\_\_ OF \_\_\_

2. TRAILER NO. 10

G E N E R A T O R	3. COMPANY NAME <b>Enterprise Field Services LLC</b>	4. ADDRESS <b>P.O BOX 1508</b>	5. PICK-UP DATE <b>5/11/2017</b>	
	PHONE NO. <b>(575) 885-7238</b>	CITY <b>Carlsbad</b>	STATE <b>NM 88221</b>	ZIP
T R A N S P O R T E R S	7. NAME OR DESCRIPTION OF WASTE SHIPPED: <b>Non-Regulated, Non Hazardous Waste</b>		8. CONTAINERS No. <b>1</b>	9. TOTAL QUANTITY
	a. <b>55,360</b>		Type <b>CM</b>	10. UNIT Wt/Vol.
	b. <b>52,040</b>			11. TEXAS WASTE ID #
	c. <b>54,620</b>			
D I S P O S I T Y	12. COMMENTS OR SPECIAL INSTRUCTIONS: <b>1009 R.O.W.</b>		13. WASTE PROFILE NO.	
	14. <b>IN CASE OF EMERGENCY OR SPILL, CONTACT</b>			
	NAME <b>Kin Slaughter</b>	PHONE NO. <b>575-887-4048</b>	24-HOUR EMERGENCY NO.	
15. <b>GENERATOR'S CERTIFICATION:</b> I Herby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC				
	PRINTED/TYPED NAME	SIGNATURE	DATE	
D I S P O S I T Y	16. <b>TRANSPORTER (1)</b>		17. <b>TRANSPORTER (2)</b>	
	NAME: <b>NEW MEXICO RENTALS</b>		NAME:	
	TEXAS I.D. NO.		TEXAS I.D. NO.	
	IN CASE OF EMERGENCY CONTACT: <b>ALLEN WALKER</b>		IN CASE OF EMERGENCY CONTACT:	
	EMERGENCY PHONE: <b>(575) 942-1257</b>	EMERGENCY PHONE:		
	18. <b>TRANSPORTER (1):</b> Acknowledgment of receipt of material		19. <b>TRANSPORTER (2):</b> Acknowledgment of receipt of material	
	PRINTED/TYPED NAME: <b>Richard PALU</b>	PRINTED/TYPED NAME		
	SIGNATURE: <i>[Signature]</i>	SIGNATURE	DATE: <b>5/11/2017</b>	DATE
D I S P O S I T Y	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	PHONE: 575-887-4048
	PERMIT NO. <b>WM-01-035 - New Mexico</b>	20. COMMENTS		
	21. <b>DISPOSAL FACILITY'S CERTIFICATION:</b> I Herby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.			
	AUTHORIZED SIGNATURE <i>[Signature]</i>	CELL NO.	DATE <b>5/11/2017</b>	TIME <b>9:35</b>

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

# LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

## LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

*MEC*

### NON-HAZARDOUS WASTE MANIFEST

NO

**118052**

1. PAGE \_\_\_ OF \_\_\_

2. TRAILER NO.

**S4**

G E N E R A T O R	3. COMPANY NAME <b>Enterprise Field Services LLC</b>		4. ADDRESS <b>P.O BOX 1508</b>			5. PICK-UP DATE <b>5/11/2017</b>	
	PHONE NO. <b>(575) 885-7236</b>		CITY <b>Carlsbad</b>	STATE <b>NM</b>	ZIP <b>88221</b>	6. TNRCC I.D. NO.	
N E M O D E L	7. NAME OR DESCRIPTION OF WASTE SHIPPED: <b>Non-Regulated, Non Hazardous Waste</b>					8. CONTAINERS No. <b>1</b>	9. TOTAL QUANTITY
	b.					Type <b>CM</b>	10. UNIT Wt/Vol.
	c.						11. TEXAS WASTE ID #
	d. <b>WT: 47,380</b>						
A U T H O R I Z E D	12. COMMENTS OR SPECIAL INSTRUCTIONS: <b>1000 R.O.W.</b>					13. WASTE PROFILE NO.	
	14. <b>IN CASE OF EMERGENCY OR SPILL, CONTACT</b>						
O F F I C E	NAME <b>Kin Slaughter</b>		PHONE NO. <b>575-887-4048</b>		24-HOUR EMERGENCY NO.		
	15. <b>GENERATOR'S CERTIFICATION:</b> I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC						
T R A N S P O R T E R S	16. <b>TRANSPORTER (1)</b>			17. <b>TRANSPORTER (2)</b>			
	NAME: <b>NEW MEXICO RENTALS</b>			NAME:			
D I S P O S I T O R Y	TEXAS I.D. NO.			TEXAS I.D. NO.			
	IN CASE OF EMERGENCY CONTACT: <b>ALLEN WALKER</b>			IN CASE OF EMERGENCY CONTACT:			
	EMERGENCY PHONE: <b>(575) 942-1257</b>			EMERGENCY PHONE:			
	18. <b>TRANSPORTER (1):</b> Acknowledgment of receipt of material			19. <b>TRANSPORTER (2):</b> Acknowledgment of receipt of material			
PRINTED/TYPED NAME: <b>CARL LARSEN</b>			PRINTED/TYPED NAME				
SIGNATURE: <i>[Signature]</i>			SIGNATURE				
DATE: <b>5/11/2017</b>			DATE				
Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM			PHONE: 575-887-4048		
PERMIT NO. <b>WM-01-035 - New Mexico</b>			20. COMMENTS				
21. <b>DISPOSAL FACILITY'S CERTIFICATION:</b> I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.							
AUTHORIZED SIGNATURE: <i>[Signature]</i>			CELL NO.		DATE: <b>5/11/2017</b>	TIME: <b>2:35</b>	

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

**COPY 1**

# LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

## LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Water Const.

NON-HAZARDOUS WASTE MANIFEST NO **118054** 1. PAGE \_\_\_ OF \_\_\_ 2. TRAILER NO. **11**

G E N E R A T O R	3. COMPANY NAME <b>Enterprise Field Services LLC</b>	4. ADDRESS <b>P.O BOX 1508</b>	5. PICK-UP DATE <b>5/12/2017</b>
	PHONE NO. <b>(575) 895-7238</b>	CITY STATE ZIP <b>Carlsbad NM 88221</b>	6. TNRCC I.D. NO.

N E R T I F I C A T I O N	7. NAME OR DESCRIPTION OF WASTE SHIPPED: <b>Non-Regulated, Non Hazardous Waste</b>	8. CONTAINERS No. <b>1</b> Type <b>CM</b>	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
	b. <b>45,520</b>				
	c. <b>55,380</b> <b>41,120</b> <b>41,380</b>				

A	12. COMMENTS OR SPECIAL INSTRUCTIONS: <b>1009 R.O.W.</b>	13. WASTE PROFILE NO.
---	---	-----------------------

T	14. IN CASE OF EMERGENCY OR SPILL, CONTACT		
O	NAME <b>Kin Slaughter</b>	PHONE NO. <b>575-887-4048</b>	24-HOUR EMERGENCY NO.

15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

R	PRINTED/TYPED NAME	SIGNATURE	DATE
---	--------------------	-----------	------

T R A N S P O R T E R S	16. TRANSPORTER (1)	17. TRANSPORTER (2)
	NAME: <b>NEW MEXICO RENTALS</b>	NAME:
	TEXAS I.D. NO.	TEXAS I.D. NO.
	IN CASE OF EMERGENCY CONTACT: <b>ALLEN WALKER</b>	IN CASE OF EMERGENCY CONTACT:
	EMERGENCY PHONE: <b>(575) 942-1257</b>	EMERGENCY PHONE:
	18. TRANSPORTER (1): Acknowledgment of receipt of material	19. TRANSPORTER (2): Acknowledgment of receipt of material
	PRINTED/TYPED NAME: <b>Josa Sotelo</b>	PRINTED/TYPED NAME:
	SIGNATURE: <i>[Signature]</i> DATE: <b>5/12/2017</b>	SIGNATURE: DATE:

D I S P O S I T O R Y	Lea Land, LLC	ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	PHONE: 575-887-4048
---	---------------	---	------------------------

PERMIT NO. <b>WM-01-035 - New Mexico</b>	20. COMMENTS
---	--------------

21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE <i>[Signature]</i>	CELL NO.	DATE <b>5/12/2017</b>	TIME <b>9:00</b>
--	----------	--------------------------	---------------------

# LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

## LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Water

### NON-HAZARDOUS WASTE MANIFEST

NO 118055

1. PAGE \_\_\_ OF \_\_\_

2. TRAILER NO. # 10

GENERATOR'S CERTIFICATION  
NON-REGULATED WASTE  
REMARKS  
TRANSPORTERS  
DISPOSAL

3. COMPANY NAME  
**Enterprise Field Services LLC**  
PHONE NO.  
**(575) 885-7238**

4. ADDRESS  
**P.O BOX 1508**  
CITY **Carlsbad** STATE **NM** ZIP **88221**

5. PICK-UP DATE  
**5/12/2017**  
6. TNRCC I.D. NO.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:  
**Non-Regulated, Non Hazardous Waste**

8. CONTAINERS  
No. **1** Type **CM**  
9. TOTAL QUANTITY  
10. UNIT Wt/Vol.  
11. TEXAS WASTE ID #

b. **47,080**

c. **57,200 @ 43,740 @ 45,780**

12. COMMENTS OR SPECIAL INSTRUCTIONS:  
**1009 R.O.W.**

13. WASTE PROFILE NO.

**To 193,800**

14. IN CASE OF EMERGENCY OR SPILL, CONTACT  
NAME **Kin Slaughter** PHONE NO **575-887-4048** 24-HOUR EMERGENCY NO.

15. GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME SIGNATURE DATE

16. TRANSPORTER (1)  
NAME: **NEW MEXICO RENTALS**  
TEXAS I.D. NO.  
IN CASE OF EMERGENCY CONTACT: **ALLEN WALKER**  
EMERGENCY PHONE: **(575) 942-1257**

17. TRANSPORTER (2)  
NAME:  
TEXAS I.D. NO.  
IN CASE OF EMERGENCY CONTACT:  
EMERGENCY PHONE:

18. TRANSPORTER (1): Acknowledgment of receipt of material  
PRINTED/TYPED NAME **Richard Palmer**  
SIGNATURE **[Signature]** DATE **5/12/2017**

19. TRANSPORTER (2): Acknowledgment of receipt of material  
PRINTED/TYPED NAME  
SIGNATURE DATE

Lea Land, LLC ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM PHONE: 575-887-4048

PERMIT NO. **WM-01-035 - New Mexico** 20. COMMENTS

21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE **[Signature]** CELL NO. DATE **5/12/2017** TIME **9:10**

# LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

## LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

MEC

NON-HAZARDOUS WASTE MANIFEST NO **118070** 1. PAGE \_\_\_ OF \_\_\_ 2. TRAILER NO. **54**

G E N E R A T O R	3. COMPANY NAME <b>Enterprise Field Services LLC</b>		4. ADDRESS <b>P.O BOX 1508</b>			5. PICK-UP DATE <b>5/12/2017</b>			
	PHONE NO. <b>(575) 885-7238</b>		CITY <b>Carlsbad</b>	STATE <b>NM</b>	ZIP <b>88221</b>	6. TNRCC I.D. NO.			
N E R T I S E	7. NAME OR DESCRIPTION OF WASTE SHIPPED: <b>Non-Regulated, Non Hazardous Waste</b>					8. CONTAINERS No. <b>1</b>	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
	b.								
	c.								
A T T R I B U T E	12. COMMENTS OR SPECIAL INSTRUCTIONS: <b>1000 R.O.W.</b>					13. WASTE PROFILE NO.			
	14. <b>IN CASE OF EMERGENCY OR SPILL, CONTACT</b>								
O F F I C E	NAME <b>Kin Slaughter</b>		PHONE NO. <b>575-887-4048</b>		24-HOUR EMERGENCY NO.				
	15. <b>GENERATOR'S CERTIFICATION:</b> I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC								
T R A N S P O R T E R S	16. <b>TRANSPORTER (1)</b>				17. <b>TRANSPORTER (2)</b>				
	NAME: <b>NEW MEXICO RENTALS</b>				NAME:				
D I S P O S I T I O N	TEXAS I.D. NO.				TEXAS I.D. NO.				
	IN CASE OF EMERGENCY CONTACT: <b>ALLEN WALKER</b>				IN CASE OF EMERGENCY CONTACT:				
F A C I L I T Y	EMERGENCY PHONE: <b>(575) 942-1257</b>				EMERGENCY PHONE:				
	18. <b>TRANSPORTER (1):</b> Acknowledgment of receipt of material				19. <b>TRANSPORTER (2):</b> Acknowledgment of receipt of material				
A U T H O R I Z E D	PRINTED/TYPED NAME <b>[Signature]</b>				PRINTED/TYPED NAME _____				
	SIGNATURE <b>CARLM. LARSEN</b> DATE <b>5/12/2017</b>				SIGNATURE _____ DATE _____				
S I G N A T U R E	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM			PHONE: 575-887-4048			
	PERMIT NO. WM-01-035 - New Mexico				20. COMMENTS				
A U T H O R I Z E D	21. <b>DISPOSAL FACILITY'S CERTIFICATION:</b> I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.								
	AUTHORIZED SIGNATURE <b>[Signature]</b>				CELL NO.		DATE <b>5/12/2017</b>	TIME <b>11:00</b>	

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

COPY 1

**District I**  
 1625 N. French Dr., Hobbs, NM 88240  
 Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**  
 811 S. First St., Artesia, NM 88210  
 Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**  
 1220 S. St Francis Dr., Santa Fe, NM 87505  
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 206632

**CONDITIONS**

Operator: ENTERPRISE FIELD SERVICES L.L.C. P.O. Box 4324 Houston, TX 772104324	OGRID: 151618
	Action Number: 206632
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

**CONDITIONS**

Created By	Condition	Condition Date
amaxwell	None	4/20/2023