



CORRECTIVE ACTION REPORT

Property:

Chinaberry #2 Leak
32.328537 N, 104.310943
NE ¼ SE ¼, S5 T23S R26E
Eddy County, New Mexico
2RP-3446

August 2016

Apex Project No. 725010112095

Prepared for:

Enterprise Field Services, LLC
PO Box 4324
Houston, TX 77252
Attention: Dina Ferguson

Prepared by:

A handwritten signature in blue ink, appearing to read 'K. Toby'.

Karolanne Toby
Project Manager

A handwritten signature in blue ink, appearing to read 'Liz Scaggs'.

Liz Scaggs, P.G.
Division Manager

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NE ¼ SE ¼, S5 T23S R26E
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Apex Project No. 725010112095

1.0 INTRODUCTION

1.1 Site Description & Background

The Chinaberry #2 Leak site, referred to hereinafter as the “Site”, is located within the Enterprise Field Services, LLC (Enterprise) pipeline right-of-way (ROW) in the northeast (NE) ¼ of the southeast (SE) ¼ of Section 5 in Township 23 South and Range 26 East in rural Eddy County, New Mexico (32.328537 N, 104.310943). The Site is located to the east of an unpaved road on Bureau of Land Management (BLM) managed lands. The Site is surrounded by native vegetation rangeland periodically interrupted with oil and natural gas production and gathering facilities, including the Enterprise 58475OPV natural gas gathering pipeline (Chinaberry line). The Chinaberry line traverses the Site from northeast to southwest.

On December 8, 2015, Enterprise was notified of a natural gas pipeline leak on the Chinaberry line. Immediate response action was taken based on the Enterprise General Release Notification, Response and Remediation Plan (March 2015). Enterprise isolated the leaking portion and the pipeline section was blown down to carry out repair activities. An initial C-141 form was submitted to the New Mexico Oil Conservation Division (NMOCD) due to the gas volume associated with the release. Enterprise originally estimated that approximately one (1) barrel (bbl) of natural gas pipeline liquid was released from the leaking portion of the Chinaberry line. The release was identified by Enterprise on the ground surface and occurred within the Enterprise pipeline ROW. The initial remediation activities were conducted on January 14, 2016. Subsequent to the completion of remediation activities, the release amount was estimated at approximately nine (9) bbls based on the final dimensions of the excavation associated with the release.

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 objective of the corrective actions completed at the Site was to reduce the concentration of constituents of concern (COCs) in the on-Site soils to below the New Mexico Energy, Minerals, and Natural Resources Department (EMNRD), Oil Conservation Division (OCD) *Remediation Action Levels* using the New Mexico EMNRD OCD's *Guidelines for Remediation of Leaks, Spills and Releases* as guidance.



2.0 SITE RANKING

In accordance with the New Mexico EMNRD OCD's *Guidelines for Remediation of Leaks, Spills and Releases*, Apex TITAN, Inc. (Apex) utilized the general Site characteristics obtained during the completion of corrective action activities and information available from the New Mexico Office of the State Engineer (OSE) 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	
Total Ranking Score			20

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", cleanup goals for soils remaining in place include:

- 10 milligrams per kilogram (mg/Kg) for benzene;
- 50 mg/Kg for total benzene, toluene, ethylbenzene and xylene (BTEX);
- 100 mg/Kg for total petroleum hydrocarbons (TPH); and
- 250 mg/Kg for chloride.

3.0 RESPONSE ACTIONS

3.1 Soil Excavation Activities

On December 8, 2015, Enterprise was informed of a natural gas pipeline leak detected by an Enterprise technician on the Chinaberry line. Approximately one (1) bbl of natural gas pipeline liquid was released from the leaking portion of the pipeline and onto the ground surface within the pipeline ROW. Enterprise isolated the leaking portion and the pipeline section was blown down to carry out repair activities.

The excavation was carried out on January 14, 2015. Impacted soil was removed from below and surrounding the release point on the Chinaberry line. The excavation dimensions measured approximately 100 feet long by ten (10) feet wide, with a total depth of approximately five (5) feet below ground surface (bgs). Impacted soil was removed and collected into one (1) stockpile on Site.

As noted by Enterprise, the backfill of the excavation was completed. The stockpiled material from the excavation was taken to a state approved disposal facility. The excavation was backfilled with clean fill material and the area was contoured to approximate original surface grade.

3.2 Soil Sampling Program

On January 14, 2016, Apex collected 11 confirmation soil samples (CS-1, CS-2, CS-3, CS-4, CS-5, CS-6, CS-7, CS-8, CS-9, CS-10 and CS-11), from the resulting excavation. In addition, two (2) composite soil samples (STP-1 and STP-2) were collected from the stockpiled material for disposal purposes.

Soil samples were collected and delivered under chain of custody control to Xenco Laboratories in Midland, Texas for analysis of BTEX utilizing EPA SW-846 Method #8021B, TPH gasoline range organics (GRO) and diesel range organics (DRO) utilizing EPA SW-846 Method #8015, and chloride utilizing EPA Method 300.

Executed chain-of-custody form 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 confirmation soil samples 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 NMAC 19.15.29 *Remediation Plan*. These guidance documents establish investigation and abatement action requirements for sites subject to reporting and/or corrective action.

Apex compared the benzene, BTEX, TPH and chloride concentrations, or reporting limits, associated with the confirmation soil samples (CS-1, CS-2, CS-3, CS-4, CS-5, CS-6, CS-7, CS-8, CS-9, CS-10 and CS-11) collected from the excavated area and the composite soil samples (STP-1 and STP-2) collected from the stockpiled material to the OCD *Recommended Remediation Action Levels* (RRALs) for sites having a total ranking score of "20".

4.1 Confirmation Soil Samples

The laboratory analyses of confirmation soil samples (CS-1, CS-2, CS-3, CS-4, CS-5, CS-6, CS-7, CS-8, CS-9, CS-10 and CS-11) collected from the Site indicate benzene concentrations ranging from below the laboratory reporting limits to 0.0106 mg/Kg, which are below the OCD RRAL limits of 10 mg/Kg for a Site ranking of "20".

The laboratory analyses of the confirmation soil samples (CS-1, CS-2, CS-3, CS-4, CS-5, CS-6, CS-7, CS-8, CS-9, CS-10 and CS-11) collected from the Site indicate total BTEX concentrations ranging from below the laboratory reporting limits to 0.0918 mg/Kg, which are below the OCD RRAL limits of 50 mg/Kg for a Site ranking of "20".

The laboratory analyses of the confirmation soil samples (CS-1, CS-2, CS-3, CS-4, CS-5, CS-6, CS-7, CS-8, CS-9, CS-10 and CS-11) collected from the Site indicate combined TPH GRO/DRO concentrations ranging from below the laboratory reporting limits to 24.2 mg/kg, which are below the OCD RRAL limits of 100 mg/Kg for a Site ranking of "20".

The laboratory analyses of the confirmation soil samples (CS-1, CS-2, CS-3, CS-4, CS-5, CS-6, CS-7, CS-8, CS-9, CS-10 and CS-11) collected from the Site indicate chloride concentrations ranging from below the laboratory reporting limits to 84.6 mg/Kg, which are below the OCD RRAL limits of 250 mg/Kg for a Site ranking of "20".

4.2 Stockpile Soil Samples

The laboratory analysis of the composite soil stockpile samples (STP-1 and STP-2) collected from the Site indicates benzene concentrations at below the laboratory reporting limit and at 0.00255 mg/Kg, which is below the OCD RRAL limits of 10 mg/Kg for a Site ranking of "20".

The laboratory analysis of the composite soil stockpile samples (STP-1 and STP-2) collected from the Site indicates total BTEX concentrations of 0.00530 mg/Kg and 0.0606 mg/kg, which are below the OCD RRAL limits of 50 mg/Kg for a Site ranking of "20".

The laboratory analysis of the composite soil stockpile samples (STP-1 and STP-2) collected from the Site does not indicate combined TPH GRO/DRO concentration above the laboratory reporting limits, which are below the OCD RRAL limits of 100 mg/Kg for a Site ranking of "20".

The laboratory analysis of the composite soil stockpile samples (STP-1 and STP-2) collected from the Site indicates chloride concentrations of 75.2 mg/Kg and 140 mg/Kg, which are below the OCD RRAL limits of 250 mg/Kg for a Site ranking of "20".

Confirmation soil sample and composite soil stockpile sample results are provided in Table 1 in Appendix C.

5.0 FINDINGS AND RECOMMENDATIONS

The Chinaberry #2 Leak Site is located within the Enterprise ROW in the NE ¼ of SE ¼ of Section 5 in Township 23 South and Range 26 East in rural Eddy County, New Mexico (32.328537 N, 104.310943). The Site is located to the east of an unpaved road on BLM managed lands.

On December 8, 2015, Enterprise was notified of a natural gas pipeline leak on the Chinaberry line. Enterprise isolated the leaking portion and the pipeline section was blown down to carry out repair activities. It was originally estimated that approximately one (1) barrel (bbl) of natural gas pipeline liquids was released from the leaking portion of the pipeline onto the ground surface. The release was identified by Enterprise on the ground surface and occurred within the Enterprise pipeline ROW. The initial remediation activities were conducted on January 14, 2016. Subsequent to the completion of remediation activities, the release amount was estimated at approximately nine (9) bbls based on the final dimensions of the excavation associated with the release.

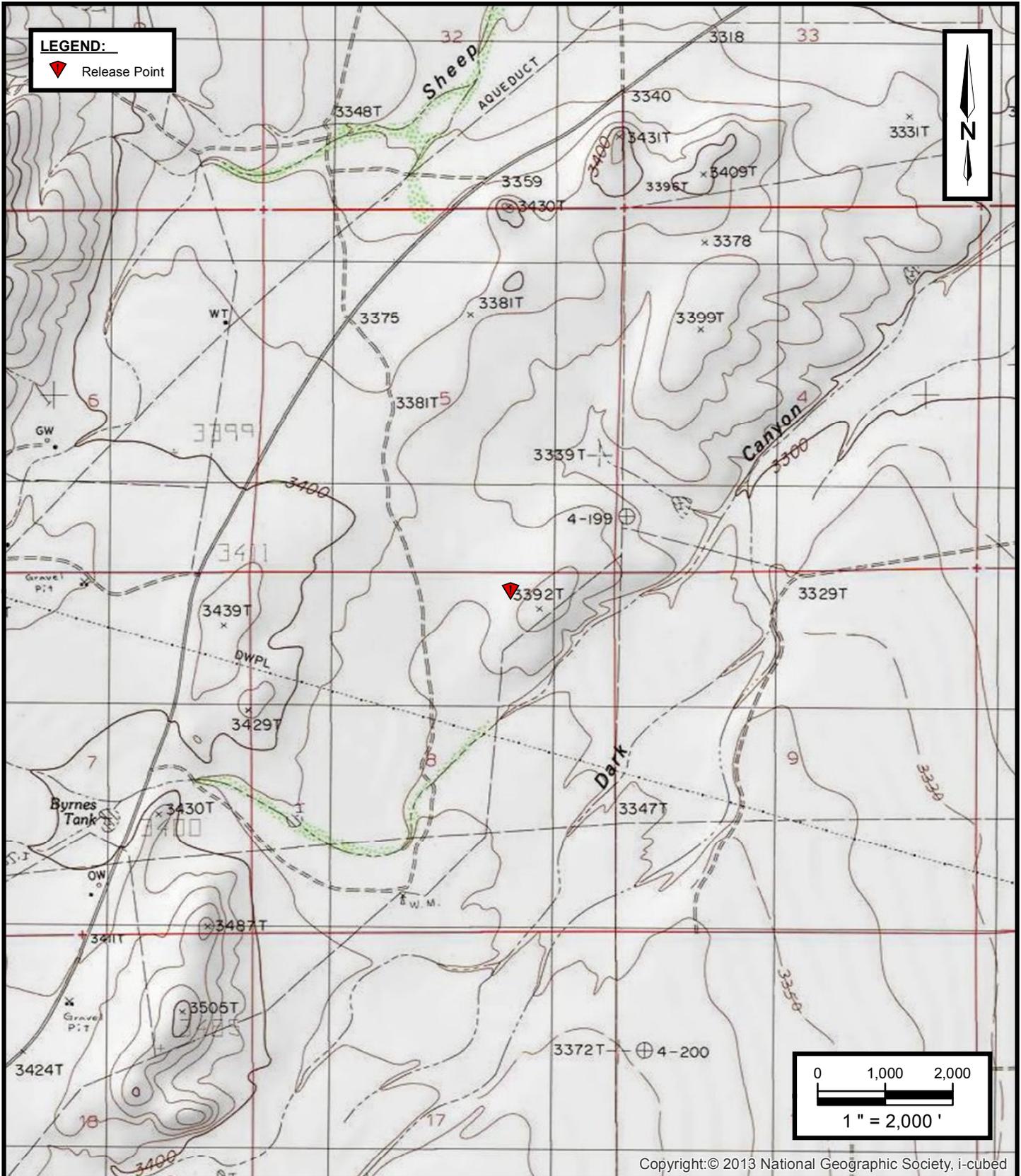
- The primary objective of the corrective actions was to reduce the concentration of COCs in the on-Site soils to below the New Mexico EMNRD OCD RALs using the New Mexico EMNRD OCD's *Guidelines for Remediation of Leaks, Spills and Releases* as guidance.
- The Site was excavated utilizing heavy equipment to remove surface soils affected by the release. The excavation dimensions measured approximately 100 feet long by ten (10) feet wide, with total depth of approximately five (5) feet bgs.
- A total of eleven (11) final confirmation soil samples were collected from the resulting excavation. Based on analytical results, on-Site soils remaining in place do not exhibit COC concentrations above the OCD *Remediation Action Levels* for a Site ranking of "20".

- As noted by Enterprise, the stockpiled material was transported off-Site to a state approved waste disposal facility. The excavation was backfilled with clean imported fill and the surface soils at the Site were contoured to approximate original grade.

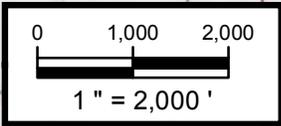
Based on field observations and laboratory analytical results, no additional investigation or corrective action appears warranted at this time.

APPENDIX A

Figures



LEGEND:
 ▼ Release Point



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Enterprise Field Services, LLC
Chinaberry #2 Release
 Eddy County, New Mexico
 32.328537 N, 104.310943 W

Project No. 725010112095

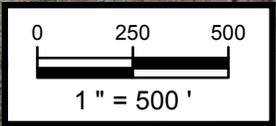


Apex TITAN, Inc.
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 A Subsidiary of Apex Companies, LLC

FIGURE 1
Topographic Map
 Kitchen Cove New Mexico Quadrangle
 1985

LEGEND:

 Release Point



Google™

Imagery ©2016 , DigitalGlobe, NMRGIS, Texas Orthoimagery Program, USDA Farm Service Agency

Enterprise Field Services, LLC
Chinaberry #2 Release
Eddy County, New Mexico
32.328537 N, 104.310943 W



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FIGURE 2

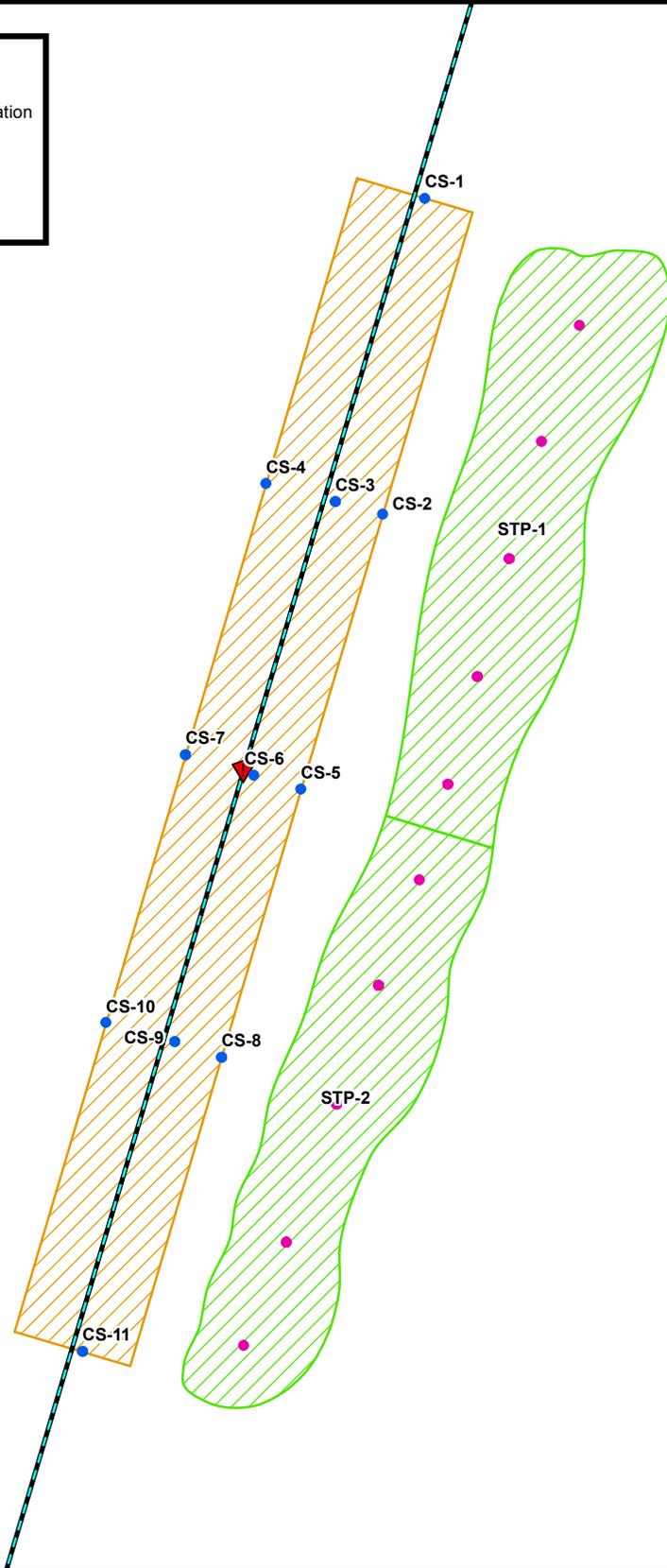
Site Vicinity Map

Aerial Photograph April 2013

Project No. 725010112095

LEGEND:

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



Enterprise Field Services, LLC
Chinaberry #2 Release
Eddy County, New Mexico
32.328537 N, 104.310943 W



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FIGURE 3
Site Map

Project No. 725010112095

APPENDIX B

Photo Documentation



View of excavation facing south.



View of excavation facing north.



View of excavation, facing northeast, in the vicinity of the release point



View of excavation facing northeast.



View of stockpiles facing west.



View of stockpiled material, facing west, near vicinity of the release point

APPENDIX C

Analytical Table



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Chinaberry Leak #2 Release

Sample I.D.	Sample Date	Sample Depth (feet BGS)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylenes (mg/Kg)	BTEX (mg/Kg)	TPH GRO (mg/Kg)	TPH DRO (mg/Kg)	TPH GRO/DRO (mg/Kg)	Chloride (mg/Kg)
New Mexico Oil Conservation Division (NMOCD) Recommended Remediation Action Levels (RRALs) (Total Ranking Score: 20)											
New Mexico Oil Conservation Division (NMOCD) Recommended Remediation Action Level			10	NE	NE	NE	50	NE	NE	100	250
EXCAVATION CONFIRMATION SOIL SAMPLE ANALYTICAL RESULTS											
CS-1	1/14/2016	4	<0.000990	<0.00198	<0.000990	<0.000990	<0.000990	<15.0	<15.0	<15.0	16.9
CS-2	1/14/2016	4	0.00129	0.00494	<0.000990	0.00523	0.0115	<15.0	<15.0	<15.0	18.9
CS-3	1/14/2016	5	<0.00100	<0.00201	<0.00100	<0.00100	<0.00100	<15.0	<15.0	<15.0	15.2
CS-4	1/14/2016	4	<0.000990	<0.00198	<0.000990	<0.000990	<0.000990	<15.0	<15.0	<15.0	12.6
CS-5	1/14/2016	4	<0.000992	<0.00198	<0.000992	<0.000992	<0.000992	<15.0	24.2	24.2	10.4
CS-6	1/14/2016	5	0.0106	0.0166	0.00349	0.0611	0.0918	<14.9	<14.9	<14.9	5.96
CS-7	1/14/2016	4	<0.000992	<0.00198	<0.000992	<0.000992	<0.000992	<15.0	<15.0	<15.0	84.6
CS-8	1/14/2016	4	<0.000992	<0.00198	<0.000992	<0.000992	<0.000992	<15.0	<15.0	<15.0	21.7
CS-9	1/14/2016	5	<0.00101	<0.00202	<0.00101	<0.00101	<0.00101	<14.9	<14.9	<14.9	<2.00
CS-10	1/14/2016	4	<0.000996	<0.00199	<0.000996	<0.000996	<0.000996	<15.0	18.1	18.1	<2.00
CS-11	1/14/2016	4	<0.000990	<0.00198	<0.000990	<0.000990	<0.000990	<15.0	<15.0	<15.0	6.62
STOCKPILE SOIL SAMPLE ANALYTICAL RESULTS											
SP-1	1/14/2016	NA	0.00255	0.0122	0.00381	0.0420	0.0606	<15.0	<15.0	<15.0	75.2
SP-2	1/14/2016	NA	<0.000998	<0.00200	<0.000998	0.00530	0.00530	<15.0	<15.0	<15.0	140

mg/Kg- milligrams per Kilogram

NE - Not Established

NA - Not Applicable

BGS - below ground surface

APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

Analytical Report 522953

for
APEX/Titan

Project Manager: Karolanne Toby

Chinaberry #2

725010112095

22-JAN-16

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-15-19), Arizona (AZ0765), Florida (E871002), Louisiana (03054)
Oklahoma (9218)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)
Texas (T104704477), Louisiana (04176), USDA (P330-07-00105)

Xenco-Lakeland: Florida (E84098)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)
Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



22-JAN-16

Project Manager: **Karolanne Toby**
APEX/Titan
505 N. Big Spring Ste. 301 A
Midland, TX 79701

Reference: XENCO Report No(s): **522953**
Chinaberry #2
Project Address: NM

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) 522953. 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. 522953 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.

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

APEX/Titan, Midland, TX

Chinaberry #2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CS-1	S	01-14-16 14:20	- 4 ft	522953-001
CS-2	S	01-14-16 14:24	- 4 ft	522953-002
CS-3	S	01-14-16 14:28	- 5 ft	522953-003
CS-4	S	01-14-16 14:32	- 4 ft	522953-004
CS-5	S	01-14-16 14:36	- 4 ft	522953-005
CS-6	S	01-14-16 14:40	- 5 ft	522953-006
CS-7	S	01-14-16 14:44	- 4 ft	522953-007
CS-8	S	01-14-16 14:48	- 4 ft	522953-008
CS-9	S	01-14-16 14:50	- 5 ft	522953-009
CS-10	S	01-14-16 14:52	- 4 ft	522953-010
CS-11	S	01-14-16 14:54	- 4 ft	522953-011
SP-1	S	01-14-16 14:45		522953-012
SP-2	S	01-14-16 14:35		522953-013

*Client Name: APEX/Titan**Project Name: Chinaberry #2*Project ID: 725010112095
Work Order Number(s): 522953Report Date: 22-JAN-16
Date Received: 01/15/2016

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analysis Summary 522953



APEX/Titan, Midland, TX

Project Name: Chinaberry #2

Project Id: 725010112095
 Contact: Karolanne Toby
 Project Location: NM

Date Received in Lab: Fri Jan-15-16 08:40 am
 Report Date: 22-JAN-16
 Project Manager: Kelsey Brooks

<i>Analysis Requested</i>	<i>Lab Id:</i>	522953-001	522953-002	522953-003	522953-004	522953-005	522953-006
	<i>Field Id:</i>	CS-1	CS-2	CS-3	CS-4	CS-5	CS-6
	<i>Depth:</i>	4 ft	4 ft	5 ft	4 ft	4 ft	5 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Jan-14-16 14:20	Jan-14-16 14:24	Jan-14-16 14:28	Jan-14-16 14:32	Jan-14-16 14:36	Jan-14-16 14:40
BTEX by EPA 8021B	<i>Extracted:</i>	Jan-15-16 15:00	Jan-15-16 15:00	Jan-15-16 15:00	Jan-15-16 15:00	Jan-15-16 15:00	Jan-15-16 15:00
	<i>Analyzed:</i>	Jan-15-16 17:11	Jan-15-16 17:27	Jan-15-16 17:44	Jan-15-16 18:00	Jan-15-16 18:17	Jan-15-16 21:01
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		ND 0.000990	0.00129 0.000990	ND 0.00100	ND 0.000990	ND 0.000992	0.0106 0.00100
Toluene		ND 0.00198	0.00494 0.00198	ND 0.00201	ND 0.00198	ND 0.00198	0.0166 0.00200
Ethylbenzene		ND 0.000990	ND 0.000990	ND 0.00100	ND 0.000990	ND 0.000992	0.00349 0.00100
m,p-Xylenes		ND 0.00198	0.00396 0.00198	ND 0.00201	ND 0.00198	ND 0.00198	0.0286 0.00200
o-Xylene		ND 0.000990	0.00127 0.000990	ND 0.00100	ND 0.000990	ND 0.000992	0.0325 0.00100
Total Xylenes		ND 0.000990	0.00523 0.000990	ND 0.00100	ND 0.000990	ND 0.000992	0.0611 0.00100
Total BTEX		ND 0.000990	0.0115 0.000990	ND 0.00100	ND 0.000990	ND 0.000992	0.0918 0.00100
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	Jan-20-16 09:00	Jan-20-16 09:00	Jan-20-16 09:00	Jan-20-16 09:00	Jan-20-16 09:00	Jan-20-16 09:00
	<i>Analyzed:</i>	Jan-20-16 13:55	Jan-20-16 14:13	Jan-20-16 15:07	Jan-20-16 15:25	Jan-20-16 15:44	Jan-20-16 16:02
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		16.9 2.00	18.9 10.0	15.2 2.00	12.6 2.00	10.4 2.00	5.96 2.00
TPH by SW 8015B	<i>Extracted:</i>	Jan-19-16 11:30	Jan-19-16 11:30	Jan-19-16 11:30	Jan-19-16 11:30	Jan-19-16 11:30	Jan-19-16 11:30
	<i>Analyzed:</i>	Jan-19-16 19:35	Jan-19-16 20:03	Jan-19-16 20:35	Jan-19-16 21:02	Jan-19-16 21:32	Jan-19-16 22:03
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
C6-C10 Gasoline Range Hydrocarbons		ND 15.0	ND 15.0	ND 15.0	ND 15.0	ND 15.0	ND 14.9
C10-C28 Diesel Range Organics		ND 15.0	ND 15.0	ND 15.0	ND 15.0	24.2 15.0	ND 14.9
Total TPH		ND 15.0	ND 15.0	ND 15.0	ND 15.0	24.2 15.0	ND 14.9

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Kelsey Brooks
Project Manager



Certificate of Analysis Summary 522953



APEX/Titan, Midland, TX

Project Name: Chinaberry #2

Project Id: 725010112095
 Contact: Karolanne Toby
 Project Location: NM

Date Received in Lab: Fri Jan-15-16 08:40 am
 Report Date: 22-JAN-16
 Project Manager: Kelsey Brooks

<i>Analysis Requested</i>	<i>Lab Id:</i>	522953-007	522953-008	522953-009	522953-010	522953-011	522953-012
	<i>Field Id:</i>	CS-7	CS-8	CS-9	CS-10	CS-11	SP-1
	<i>Depth:</i>	4 ft	4 ft	5 ft	4 ft	4 ft	
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Jan-14-16 14:44	Jan-14-16 14:48	Jan-14-16 14:50	Jan-14-16 14:52	Jan-14-16 14:54	Jan-14-16 14:45
BTEX by EPA 8021B	<i>Extracted:</i>	Jan-15-16 15:00					
	<i>Analyzed:</i>	Jan-15-16 19:06	Jan-15-16 19:23	Jan-15-16 19:39	Jan-15-16 19:56	Jan-15-16 20:11	Jan-15-16 20:45
	<i>Units/RL:</i>	mg/kg RL					
Benzene		ND 0.000992	ND 0.000992	ND 0.00101	ND 0.000996	ND 0.000990	0.00255 0.00101
Toluene		ND 0.00198	ND 0.00198	ND 0.00202	ND 0.00199	ND 0.00198	0.0122 0.00202
Ethylbenzene		ND 0.000992	ND 0.000992	ND 0.00101	ND 0.000996	ND 0.000990	0.00381 0.00101
m,p-Xylenes		ND 0.00198	ND 0.00198	ND 0.00202	ND 0.00199	ND 0.00198	0.0250 0.00202
o-Xylene		ND 0.000992	ND 0.000992	ND 0.00101	ND 0.000996	ND 0.000990	0.0170 0.00101
Total Xylenes		ND 0.000992	ND 0.000992	ND 0.00101	ND 0.000996	ND 0.000990	0.0420 0.00101
Total BTEX		ND 0.000992	ND 0.000992	ND 0.00101	ND 0.000996	ND 0.000990	0.0606 0.00101
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	Jan-20-16 09:00					
	<i>Analyzed:</i>	Jan-20-16 16:20	Jan-20-16 16:56	Jan-20-16 17:14	Jan-20-16 17:32	Jan-20-16 17:51	Jan-20-16 18:45
	<i>Units/RL:</i>	mg/kg RL					
Chloride		84.6 10.0	21.7 2.00	ND 2.00	ND 2.00	6.62 2.00	75.2 10.0
TPH by SW 8015B	<i>Extracted:</i>	Jan-19-16 11:30					
	<i>Analyzed:</i>	Jan-20-16 20:30	Jan-19-16 23:06	Jan-19-16 23:36	Jan-20-16 00:07	Jan-20-16 01:12	Jan-20-16 01:46
	<i>Units/RL:</i>	mg/kg RL					
C6-C10 Gasoline Range Hydrocarbons		ND 15.0	ND 15.0	ND 14.9	ND 15.0	ND 15.0	ND 15.0
C10-C28 Diesel Range Organics		ND 15.0	ND 15.0	ND 14.9	18.1 15.0	ND 15.0	ND 15.0
Total TPH		ND 15.0	ND 15.0	ND 14.9	18.1 15.0	ND 15.0	ND 15.0

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Kelsey Brooks
Project Manager



Certificate of Analysis Summary 522953



APEX/Titan, Midland, TX

Project Name: Chinaberry #2

Project Id: 725010112095
 Contact: Karolanne Toby
 Project Location: NM

Date Received in Lab: Fri Jan-15-16 08:40 am
 Report Date: 22-JAN-16
 Project Manager: Kelsey Brooks

Analysis Requested	Lab Id:	522953-013				
	Field Id:	SP-2				
	Depth:					
	Matrix:	SOIL				
	Sampled:	Jan-14-16 14:35				
BTEX by EPA 8021B	Extracted:	Jan-15-16 15:00				
	Analyzed:	Jan-15-16 20:28				
	Units/RL:	mg/kg RL				
	Benzene	ND 0.000998				
	Toluene	ND 0.00200				
	Ethylbenzene	ND 0.000998				
	m,p-Xylenes	ND 0.00200				
	o-Xylene	0.00530 0.000998				
Total Xylenes	0.00530 0.000998					
Total BTEX	0.00530 0.000998					
Inorganic Anions by EPA 300/300.1	Extracted:	Jan-20-16 09:00				
	Analyzed:	Jan-20-16 19:03				
	Units/RL:	mg/kg RL				
Chloride	140 10.0					
TPH by SW 8015B	Extracted:	Jan-19-16 11:30				
	Analyzed:	Jan-20-16 02:18				
	Units/RL:	mg/kg RL				
	C6-C10 Gasoline Range Hydrocarbons	ND 15.0				
C10-C28 Diesel Range Organics	ND 15.0					
Total TPH	ND 15.0					

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Kelsey Brooks
Project Manager

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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

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

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2525 W. Huntington Dr. - Suite 102, Tempe AZ 85282	(432) 563-1800	(432) 563-1713
	(602) 437-0330	



Form 2 - Surrogate Recoveries

Project Name: Chinaberry #2

Work Orders : 522953,

Project ID: 725010112095

Lab Batch #: 985690

Sample: 522953-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/15/16 17:11

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	0.0304	0.0300	101	80-120	

Lab Batch #: 985690

Sample: 522953-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/15/16 17:27

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0357	0.0300	119	80-120	
4-Bromofluorobenzene	0.0336	0.0300	112	80-120	

Lab Batch #: 985690

Sample: 522953-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/15/16 17:44

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0335	0.0300	112	80-120	
4-Bromofluorobenzene	0.0306	0.0300	102	80-120	

Lab Batch #: 985690

Sample: 522953-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/15/16 18:00

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	0.0298	0.0300	99	80-120	

Lab Batch #: 985690

Sample: 522953-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/15/16 18:17

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0344	0.0300	115	80-120	
4-Bromofluorobenzene	0.0320	0.0300	107	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: Chinaberry #2

Work Orders : 522953,

Project ID: 725010112095

Lab Batch #: 985690

Sample: 522953-007 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/15/16 19:06

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0347	0.0300	116	80-120	
4-Bromofluorobenzene	0.0295	0.0300	98	80-120	

Lab Batch #: 985690

Sample: 522953-008 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/15/16 19:23

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0350	0.0300	117	80-120	
4-Bromofluorobenzene	0.0308	0.0300	103	80-120	

Lab Batch #: 985690

Sample: 522953-009 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/15/16 19:39

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0339	0.0300	113	80-120	
4-Bromofluorobenzene	0.0309	0.0300	103	80-120	

Lab Batch #: 985690

Sample: 522953-010 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/15/16 19:56

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0340	0.0300	113	80-120	
4-Bromofluorobenzene	0.0310	0.0300	103	80-120	

Lab Batch #: 985690

Sample: 522953-011 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/15/16 20:11

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0341	0.0300	114	80-120	
4-Bromofluorobenzene	0.0271	0.0300	90	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: Chinaberry #2

Work Orders : 522953,

Project ID: 725010112095

Lab Batch #: 985690

Sample: 522953-013 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/15/16 20:28

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0299	0.0300	100	80-120	
4-Bromofluorobenzene	0.0358	0.0300	119	80-120	

Lab Batch #: 985690

Sample: 522953-012 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/15/16 20:45

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0318	0.0300	106	80-120	
4-Bromofluorobenzene	0.0356	0.0300	119	80-120	

Lab Batch #: 985690

Sample: 522953-006 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/15/16 21:01

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0350	0.0300	117	80-120	
4-Bromofluorobenzene	0.0244	0.0300	81	80-120	

Lab Batch #: 986082

Sample: 522953-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/19/16 19:35

SURROGATE RECOVERY STUDY					
TPH by SW 8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.4	99.7	94	70-135	
o-Terphenyl	48.9	49.9	98	70-135	

Lab Batch #: 986082

Sample: 522953-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/19/16 20:03

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	54.1	50.0	108	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: Chinaberry #2

Work Orders : 522953,

Project ID: 725010112095

Lab Batch #: 986082

Sample: 522953-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/19/16 20:35

SURROGATE RECOVERY STUDY					
TPH by SW 8015B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	94.6	99.8	95	70-135	
o-Terphenyl	50.0	49.9	100	70-135	

Lab Batch #: 986082

Sample: 522953-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/19/16 21:02

SURROGATE RECOVERY STUDY					
TPH by SW 8015B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	86.4	99.8	87	70-135	
o-Terphenyl	45.6	49.9	91	70-135	

Lab Batch #: 986082

Sample: 522953-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/19/16 21:32

SURROGATE RECOVERY STUDY					
TPH by SW 8015B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	91.1	99.9	91	70-135	
o-Terphenyl	48.1	50.0	96	70-135	

Lab Batch #: 986082

Sample: 522953-006 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/19/16 22:03

SURROGATE RECOVERY STUDY					
TPH by SW 8015B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	90.1	99.6	90	70-135	
o-Terphenyl	47.9	49.8	96	70-135	

Lab Batch #: 986082

Sample: 522953-008 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/19/16 23:06

SURROGATE RECOVERY STUDY					
TPH by SW 8015B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	88.9	99.8	89	70-135	
o-Terphenyl	47.3	49.9	95	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: Chinaberry #2

Work Orders : 522953,

Project ID: 725010112095

Lab Batch #: 986082

Sample: 522953-009 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/19/16 23:36

SURROGATE RECOVERY STUDY					
TPH by SW 8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.1	99.6	92	70-135	
o-Terphenyl	49.0	49.8	98	70-135	

Lab Batch #: 986082

Sample: 522953-010 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/20/16 00:07

SURROGATE RECOVERY STUDY					
TPH by SW 8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.8	99.9	95	70-135	
o-Terphenyl	50.1	50.0	100	70-135	

Lab Batch #: 986082

Sample: 522953-011 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/20/16 01:12

SURROGATE RECOVERY STUDY					
TPH by SW 8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.4	99.7	94	70-135	
o-Terphenyl	49.6	49.9	99	70-135	

Lab Batch #: 986082

Sample: 522953-012 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/20/16 01:46

SURROGATE RECOVERY STUDY					
TPH by SW 8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	87.1	99.9	87	70-135	
o-Terphenyl	46.5	50.0	93	70-135	

Lab Batch #: 986082

Sample: 522953-013 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/20/16 02:18

SURROGATE RECOVERY STUDY					
TPH by SW 8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	95.7	99.8	96	70-135	
o-Terphenyl	50.8	49.9	102	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: Chinaberry #2

Work Orders : 522953,

Project ID: 725010112095

Lab Batch #: 986082

Sample: 522953-007 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/20/16 20:30

SURROGATE RECOVERY STUDY

TPH by SW 8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	109	100	109	70-135	
o-Terphenyl	57.0	50.0	114	70-135	

Lab Batch #: 985690

Sample: 703482-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 01/15/16 12:24

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0336	0.0300	112	80-120	
4-Bromofluorobenzene	0.0303	0.0300	101	80-120	

Lab Batch #: 986082

Sample: 703714-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 01/19/16 13:06

SURROGATE RECOVERY STUDY

TPH by SW 8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.7	100	92	70-135	
o-Terphenyl	48.2	50.0	96	70-135	

Lab Batch #: 985690

Sample: 703482-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 01/15/16 11:03

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0309	0.0300	103	80-120	
4-Bromofluorobenzene	0.0283	0.0300	94	80-120	

Lab Batch #: 986082

Sample: 703714-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 01/19/16 13:37

SURROGATE RECOVERY STUDY

TPH by SW 8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.5	100	98	70-135	
o-Terphenyl	48.3	50.0	97	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: Chinaberry #2

Work Orders : 522953,

Project ID: 725010112095

Lab Batch #: 985690

Sample: 703482-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 01/15/16 11:19

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0263	0.0300	88	80-120	
4-Bromofluorobenzene	0.0250	0.0300	83	80-120	

Lab Batch #: 986082

Sample: 703714-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 01/19/16 14:04

SURROGATE RECOVERY STUDY

TPH by SW 8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.6	100	94	70-135	
o-Terphenyl	46.4	50.0	93	70-135	

Lab Batch #: 985690

Sample: 522982-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/15/16 16:21

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0353	0.0300	118	80-120	
4-Bromofluorobenzene	0.0354	0.0300	118	80-120	

Lab Batch #: 986082

Sample: 522956-007 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/20/16 06:41

SURROGATE RECOVERY STUDY

TPH by SW 8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	98.1	99.7	98	70-135	
o-Terphenyl	48.7	49.9	98	70-135	

Lab Batch #: 985690

Sample: 522982-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/15/16 16:38

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0333	0.0300	111	80-120	
4-Bromofluorobenzene	0.0346	0.0300	115	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: Chinaberry #2

Work Orders : 522953,

Lab Batch #: 986082

Sample: 522956-007 SD / MSD

Project ID: 725010112095

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/20/16 07:13

SURROGATE RECOVERY STUDY

TPH by SW 8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	105	100	105	70-135	
o-Terphenyl	51.4	50.0	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.



BS / BSD Recoveries



Project Name: Chinaberry #2

Work Order #: 522953

Project ID: 725010112095

Analyst: SYG

Date Prepared: 01/15/2016

Date Analyzed: 01/15/2016

Lab Batch ID: 985690

Sample: 703482-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	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
Analytes											
Benzene	<0.00100	0.100	0.0866	87	0.100	0.0831	83	4	70-130	35	
Toluene	<0.00200	0.100	0.0878	88	0.100	0.0812	81	8	70-130	35	
Ethylbenzene	<0.00100	0.100	0.0938	94	0.100	0.0861	86	9	71-129	35	
m,p-Xylenes	<0.00200	0.200	0.193	97	0.200	0.178	89	8	70-135	35	
o-Xylene	<0.00100	0.100	0.0921	92	0.100	0.0848	85	8	71-133	35	

Analyst: MNR

Date Prepared: 01/20/2016

Date Analyzed: 01/20/2016

Lab Batch ID: 986054

Sample: 703648-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	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
Analytes											
Chloride	<2.00	50.0	51.2	102	50.0	50.9	102	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: Chinaberry #2

Work Order #: 522953

Project ID: 725010112095

Analyst: PJB

Date Prepared: 01/19/2016

Date Analyzed: 01/19/2016

Lab Batch ID: 986082

Sample: 703714-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH by SW 8015B	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
Analytes											
C6-C10 Gasoline Range Hydrocarbons	<15.0	1000	802	80	1000	840	84	5	70-135	35	
C10-C28 Diesel Range Organics	<15.0	1000	982	98	1000	973	97	1	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 Recoveries

Project Name: Chinaberry #2



Work Order #: 522953

Lab Batch #: 986054

Date Analyzed: 01/20/2016

QC- Sample ID: 522953-007 S

Reporting Units: mg/kg

Date Prepared: 01/20/2016

Batch #: 1

Project ID: 725010112095

Analyst: MNR

Matrix: Soil

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	84.6	250	338	101	80-120	

Lab Batch #: 986054

Date Analyzed: 01/20/2016

QC- Sample ID: 522988-001 S

Reporting Units: mg/kg

Date Prepared: 01/20/2016

Batch #: 1

Analyst: MNR

Matrix: Soil

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	216	500	731	103	80-120	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
 Relative Percent Difference [E] = 200*(C-A)/(C+B)
 All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries



Project Name: Chinaberry #2

Work Order # : 522953

Project ID: 725010112095

Lab Batch ID: 985690

QC- Sample ID: 522982-001 S

Batch #: 1 **Matrix:** Soil

Date Analyzed: 01/15/2016

Date Prepared: 01/15/2016

Analyst: SYG

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B 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
Benzene	<0.00115	0.115	0.0989	86	0.115	0.105	91	6	70-130	35	
Toluene	<0.00230	0.115	0.0955	83	0.115	0.102	89	7	70-130	35	
Ethylbenzene	<0.00115	0.115	0.0966	84	0.115	0.101	88	4	71-129	35	
m,p-Xylenes	<0.00230	0.230	0.198	86	0.230	0.209	91	5	70-135	35	
o-Xylene	<0.00115	0.115	0.0927	81	0.115	0.0972	85	5	71-133	35	

Lab Batch ID: 986082

QC- Sample ID: 522956-007 S

Batch #: 1 **Matrix:** Soil

Date Analyzed: 01/20/2016

Date Prepared: 01/19/2016

Analyst: PJB

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	997	782	78	1000	724	72	8	70-135	35	
C10-C28 Diesel Range Organics	<15.0	997	918	92	1000	962	96	5	70-135	35	

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 Karolane Toky

Sampler's Name Georgiana M'Swane

Project No. 72501012025

Project Name Crinabery W2

Laboratory: KENCO

Address: Midland, TX

Contact: Midland, TX

Phone: _____

PO/SO #: 72501012095

Sampler's Signature Georgiana M'Swane

Identifying Marks of Sample(s) _____

Start Depth _____

End Depth _____

VOA _____

A/G 1 Lt. _____

250 ml Glass Jar _____

P/O _____

No/Type of Containers 13

ANALYSIS REQUESTED

Chloride
BTEX 8021B
TPH GRO/DRO

Lab use only
Due Date: _____

Temp. of coolers when received (C°): 2.9

Page 1 of 2

500953
Lab Sample ID (Lab Use Only)

CHAIN OF CUSTODY RECORD

Matrix	Date	Time	Com p	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 Lt.	250 ml Glass Jar	P/O
S	1420	1/14/16	X		CS-1	4'	4'			X	
	1424				CS-2	4'	4'			X	
	1428				CS-3	5'	5'			X	
	1432				CS-4	4'	4'			X	
	1436				CS-5	4'	4'			X	
	1440				CS-6	5'	5'			X	
	1444				CS-7	4'	4'			X	
	1448				CS-8	4'	4'			X	
	1450				CS-9	5'	5'			X	
	1452	1/14/16	X		CS-10	4'	4'			X	

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

Relinquished by (Signature) _____ Date: 1/14/16 Time: 19:30 Received by (Signature) _____ Date: 1/14/16 Time: 19:30

Relinquished by (Signature) _____ Date: _____ Time: _____ Received by (Signature) _____ Date: 1/14/16 Time: 8:40

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

NOTES: * NM samples

Matrix _____ W - Water S - Soil SD - Solid L - Liquid A - Air Bag C - Charcoal tube SL - sludge O - Oil
 Container VCA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other _____

Client: APEX/Titan

Date/ Time Received: 01/15/2016 08:40:00 AM

Work Order #: 522953

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient
Temperature Measuring device used : r8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	2.9
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	No
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	N/A
#21 <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
#22 >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: Carley Owens Date: 01/15/2016
 Carley Owens

Checklist reviewed by: Kelsey Brooks Date: 01/15/2016
 Kelsey Brooks

APPENDIX E

Initial and
Final C-141

DEC 10 2015

Form C-141
Revised August 8, 2011

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

RECEIVED
Submitted to appropriate District Office in accordance with 19.15.29 NMAC.

DAB1534852873

Release Notification and Corrective Action

NAB1534853014

OPERATOR

Initial Report Final Report

Name of Company	Enterprise Field Services LLC	Contact	Alena Polk
	PO Box 4324, Houston, TX 77210	Telephone No.	575-706-4926
Facility Name	Pipeline ROW, Chinaberry Line	Facility Type:	Gas Gathering Pipeline
Surface Owner	BLM	Mineral Owner	NA - Pipeline
		Lease No.	NA

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	5	23S	26E	505	North	105	West	Eddy

Latitude: N 32.328537 Longitude: W -104.310943

NATURE OF RELEASE

Type of Release	Natural Gas and Pipeline Liquids	Volume of Release:	194 MCF gas and 1 bbl liquids	Volume Recovered:	N/A
Source of Release	Pipeline Leak.	Date and Hour of Occurrence	12/08/2015 @ 11:30 MST	Date and Hour of Discovery	12/08/2015 @ 11:30 MST
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?			
By Whom?		Date and Hour			
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 pipeline technician. Pipeline segment was isolated, blown down, repaired following standard one-call. Approximately one (1) bbl of liquid noted on ROW.

Describe Area Affected and Cleanup Action Taken.*

A liquid spill of approximately one (1) bbl occurred as part of the leak. Remediation actions will follow 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:	<i>Jon E. Fields</i>	OIL CONSERVATION DIVISION	
Printed Name:	Jon E. Fields	Approved by District Supervisor:	Signed By: <i>Mike Swanson</i>
Title:	Director, Field Environmental	Approval Date:	12/14/15
E-mail Address:	jefields@eprod.com	Expiration Date:	N/A
Date:	12-10-2015	Phone:	713-381-6684
		Conditions of Approval: Remediation per O.C.D. Rules & Guidelines <input type="checkbox"/>	
SUBMIT REMEDIATION PROPOSAL NO			

* Attach Additional Sheets If Necessary

LATER THAN: 11/2/16

2RP-3446

Bratcher, Mike, EMNRD

From: Mendez, Brenda <BJMendez@eprod.com>
Sent: Thursday, December 10, 2015 12:36 PM
To: Bratcher, Mike, EMNRD
Cc: Polk, Alena; Ferguson, Dina; Thompson, Roger; Nolan, Shiver; Fields, Jon
Subject: Eddy County, Chinaberry Line
Attachments: Eddy County C-141 Release Report Chinaberry Line (12-8) December 2015.pdf

Attached for your review and handling is the C-141 Form (Release Notification and Corrective Action) for the subject release.

Should you need additional information, please contact Alena Polk at 575-706-4926.

Thank you

Brenda J. Mendez – Planning and Reports Analyst
Enterprise Products Operating, LLC
Tel (713) 381-8270 – Fax (713) 880-6660
bjmendez@eprod.com

This message (including any attachments) is confidential and intended for a specific individual and purpose. If you are not the intended recipient, please notify the sender immediately and delete this message.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
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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

Form C-141
Revised August 8, 2011

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

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>575-706-4926</i>
Facility Name <i>Pipeline ROW, Chinaberry Line</i>	Facility Type: <i>Gas Gathering Pipeline</i>
Surface Owner <i>BLM</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>P</i>	<i>5</i>	<i>23S</i>	<i>26E</i>	<i>505</i>	<i>North</i>	<i>105</i>	<i>West</i>	<i>Eddy</i>

Latitude: *N 32.328537* Longitude: *W -104.310943*

NATURE OF RELEASE

Type of Release <i>Natural Gas and Pipeline Liquids</i>	Volume of Release: <i>194 MCF gas and 9bbl liquids</i>	Volume Recovered: <i>N/A</i>
Source of Release <i>Pipeline Leak.</i>	Date and Hour of Occurrence <i>12/08/2015 @ 11:30 MST</i>	Date and Hour of Discovery <i>12/08/2015 @ 11:30 MST</i>
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
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 pipeline technician. Pipeline segment was isolated, blown down, and repaired following standard one-call. Approximately nine (9) bbls of liquid noted on ROW.

Describe Area Affected and Cleanup Action Taken.*

A liquid spill of approximately nine (9) bbls 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: 	OIL CONSERVATION DIVISION	
Printed Name: <i>Jon E. Fields</i>	Approved by District Supervisor:	
Title: <i>Director, Field Environmental</i>	Approval Date:	Expiration Date:
E-mail Address: <i>jefields@eprod.com</i>	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <i>8-19-2016</i> Phone: <i>713-381-6684</i>		

* Attach Additional Sheets If Necessary