

# REMEDIATION SUMMARY AND SITE CLOSURE REQUEST

# COTTON DRAW STATION UNIT E (SW1/4, NW1/4), SECTION 03, TOWNSHIP 26 SOUTH, RANGE 32 EAST WEST OF JAL LEA COUNTY, NEW MEXICO

NMOCD Reference 1RP-4276 Plains AFE #20362 Plains SRS #2016-057

Prepared for:

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**APPROVED** 

By Olivia Yu at 10:18 am, Aug 10, 2017

May 2017

NMOCD grants approval for closure of 1RP-4276.

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#### 1.0 INTRODUCTION AND BACKGROUND

On behalf of Plains Pipeline, L.P. (Plains), TRC Environmental Corporation (TRC) has prepared this Remediation Summary and Site Closure Request for the crude oil Release Site known as Cotton Draw Station (AFE #20362). The Release Site is located in Unit Letter "E" (SW1/4 NW1/4), Section 03, Township 26 South, Range 32 East, NMPM in Lea County, New Mexico and the Release Site GPS coordinates are N 32.07570° W103.67049°. The property is administered by The United States Department of the Interior-Bureau of Land Management (BLM) -Carlsbad Field Office. Please reference the Site Location Map provided as Figure 1.

On April 19, 2016, a blind flange, located in the vicinity of Pump Skid P-400 apparently had been removed prior the completion of all repairs to the system. The Pump was activated to test the system, which resulted in the release of crude oil. The volume of the release was estimated at approximately one-hundred ninety (190) barrels (bbls) of crude oil, of which approximately one-hundred (100) bbls was recovered for a net loss of approximately ninety (90) barrels of crude oil. The released crude oil impacted a surface area measuring approximately fifty-three thousand (53,000) square feet inside the confines of the Cotton Draw Station Facility, then flowed south and impacted an area measuring approximately two-thousand eight-hundred (2,800) square feet along the south fence line outside of the facility. The released fluid continued to the south, impacting the adjacent pastureland measuring approximately four hundred fifty (450) square feet.

On April 19, 2016, the release was verbally reported to Jamie Keyes, Environmental Specialist, New Mexico Oil Conservation Division (NMOCD) - District 1. On May 12, 2016, the Release Notification and Corrective Action – NMOCD Form C-141 was submitted to the NMOCD – District Office in Hobbs, New Mexico. The NMOCD reference number for the Release Site is 1RP-4276. The Release Notification and Corrective Action – NMOCD Form C-141 is provided as Appendix F. Photographic documentation is provided as Appendix A.

The BLM was notified of the release and indicated a "Cultural Resource Survey" (Arch Survey) was not required prior to the commencement of remediation activities.

#### 2.0 NMOCD SITE CLASSIFICATION

A search of the New Mexico Office of the State Engineer (NMOSE) database did not identify the average depth to groundwater information for Section 03, Township 26 South, Range 32 East. A reference map utilized by the NMOCD indicated the depth to groundwater at the Release Site should be encountered at approximately two-hundred sixty (260) feet below ground surface (bgs). The depth to groundwater at the Cotton Draw Station Release Site results in a score of zero (0) points being assigned to the site, based on the NMOCD depth to groundwater criteria.

The water well database, maintained by the NMOSE, indicated there are no water wells less than 1,000 feet from the release, resulting in zero (0) points being assigned to this site as a result of this criteria.

There are no surface water bodies located within 1,000 feet of the site. Based on the NMOCD ranking system zero (0) points will be assigned to the site as a result of the criteria.

The NMOCD guidelines indicate the Cotton Draw Station Release Site has a ranking score of zero (0). Based on this score, the soil remediation levels for a site with a ranking score of zero (0) points are as follows:

- Benzene 10 mg/Kg (ppm)
- BTEX -50 mg/Kg (ppm)
- TPH 5,000 mg/Kg (ppm)

The NMOCD chloride cleanup level concentrations are site specific and are determined by the NMOCD Hobbs District Office.

#### 3.0 SUMMARY OF FIELD ACTIVITIES

On April 19, 2016, TRC, submitted a New Mexico "One Call" request to locate utilities in and adjacent to the Cotton Draw Station, as required by New Mexico State Law.

On April 20, 2016, TRC, began remediation activities at the Release Site. Heavily saturated soil was excavated by hand and placed on a plastic liner to mitigate the potential migration of contaminants into the subsurface soils. As requested by the BLM, the stockpiled impacted soil was covered with a plastic liner.

On April 21, 2016, four (4) preliminary soil samples (SK-200 @ 2", P-410 @ 6", P400 @ 1', and SK-500 @ 2") were collected and submitted to the laboratory to determine the extent of hydrocarbon impact beneath the facility piping and equipment skids. Soil samples were collected at approximately two (2) inches bgs, six (6) inches bgs, one (1) foot bgs, and two (2) inches bgs, respectively. Soil samples were placed in glassware provided by Permian Basin Environmental Lab, LP (Permian Lab) located in Midland, Texas. The soil samples were then placed on ice in a cooler for transport to the laboratory and strict chain-of-custody documentation was maintained at all times. Preliminary soil samples were analyzed using EPA Method SW-846 8015M for gasoline range (GRO), diesel range (DRO), and oil range (ORO) total petroleum hydrocarbons (TPH). Please reference the Site Details and Confirmation Soil Sample Location Map provided as Figure 2. Please reference Table 1 for a Summary of Concentrations of Benzene, BTEX, TPH, and Chloride Concentrations in Soil. Laboratory analytical reports are provided as Appendix B.

The analytical results of soil samples (SK-200 @ 2", P-410 @ 6", P400 @ 1', and SK-500 @ 2") indicated TPH concentrations ranged from 11,300 mg/Kg for soil sample P-400 @ 1' to 30,960 mg/Kg for soil sample SK-500 @ 2".

On April 25, 2016, mechanical equipment was mobilized to the Release Site and mechanical excavation of the impacted soil commenced and continued until June 16, 2016. Excavation of the impacted soil was guided by visual and olfactory techniques. Impacted soil adjacent to piping and equipment supports was excavated to a depth of approximately one (1) foot below ground surface to maintain the integrity of the supports. Impacted soil was stockpiled on plastic on

property leased to Plains by the BLM, pending transport and disposal of the impacted soil to Lea Land, LLC (WM-01-035) in Eddy County, New Mexico.

As the remediation activities progressed, soil samples were periodically collected and submitted to the laboratory for analysis. On May 6, 2016, twenty-eight (28) soil samples (P-400A @ 2', P-410A @ 3.5', SK-500A @ 1.5', SK-200A @ 1', Sample-1 @ 1', Sample-2 @ 3', Sample-3 @ 1', Sample-4 @ 1', Sample-5 @ 2.5', Sample-6 @ 1', Sample -7 @ 2", Sample-8 @ 1', Sample-9 @ 1', Sample-10 @ 3", Sample-12 @ 2", Sample-13 @ 2", Sample-14 @ 2", Sample-15 @ 4", Sample-16 @ 1', Sample-17 @ 2", Sample-21 @ 1', Sample-22 @ 2.5', Sample-23 @ 2.5', Sample-24 @ 5', Sample-25 @ 2', Sample-26 @ 2', Sample-27 @ 3', Sample-28 @ 3') were collected and submitted to Permian Lab for determination of concentrations of benzene, toluene, ethylbenzene, and xylene (BTEX) using Method 8021B, Method 8015M for TPH, and Method E300.0 for chloride. Please reference the Site Details and Confirmation Soil Sample Location Map provided as Figure 2.

The analytical results indicated benzene concentrations were less than the applicable method detection limit (MDL) for all twenty-eight (28) soil samples. BTEX concentrations ranged from less than the applicable MDL for soil samples P-410A @ 3.5', Sample-1 @ 1', Sample-8 @ 1', Sample-9 @ 1', Sample-15 @ 4", and Sample-16 @ 1' to 61.65 mg/Kg for soil sample Sample-2 @ 3". TPH concentrations ranged from less than the applicable MDL for soil samples Sample-6 @ 1', Sample-9 @ 1', Sample-15 @ 4", and Sample-16 @ 1' to 24,700 mg/Kg for soil sample Sample-3 @ 1'. Chloride concentrations ranged from 4.58 mg/Kg for soil sample Sample-28 @ 3' to 303 mg/Kg for soil sample Sample-12 @ 2". Please reference Table 1 for a Summary of Concentrations of Benzene, BTEX, TPH, and Chloride Concentrations in Soil.

Based on the analytical results, impacted soil represented by soil samples P-400A @ 2', SK-500A @ 1.5', SK-200A @ 1', Sample-2 @ 3", Sample-3 @ 1', Sample -7 @ 2", Sample-13 @ 2", Sample-17 @ 2", Sample-21 @ 1', Sample-22 @ 2.5', and Sample-27 @ 3' warranted additional remediation activities.

The analytical results indicated no additional excavation activities were warranted in the areas represented by soil samples P-410A @ 3.5', Sample-1 @ 1', Sample-4 @ 1', Sample-5 @ 2.5', Sample-6 @ 1', Sample-8 @ 1', Sample-9 @ 1', Sample-10 @ 3", Sample-12 @ 2", Sample-14 @ 2", Sample-15 @ 4", Sample-16 @ 1', Sample-23 @ 2.5', Sample-24 @ 5', Sample-25 @ 2', Sample-26 @ 2', and Sample-28 @ 3'.

On May 17, 2016, thirteen (13) soil samples (Sample-2A @ 5', Sample-11 @ 2', Sample-13A @ 1.5', Sample-17A @ 1', Sample-18 @ 1.5', Sample-19 @ 1', Sample-20 @ 6", Sample-22A @ 3', Sample-27A @ 3.5', Sample-29 @ 3", Sample-30 @ 3", Sample-31@ 1', Sample-32 @ 1') were collected and submitted to Permian Lab for determination of concentrations of benzene, BTEX, TPH, and chloride. Please reference the Site Details and Confirmation Soil Sample Location Map provided as Figure 2.

The analytical results indicated benzene concentrations ranged from less than the applicable MDL for soil samples Sample-11 @ 2', Sample-13A @ 1.5', Sample-19 @ 1', Sample-22A @ 3', Sample-27A @ 3.5', Sample-29 @ 3", and Sample-32 @ 1' to 7.68 mg/Kg for soil sample

Sample-31 @ 1'. BTEX concentrations ranged from less than the applicable MDL for soil samples Sample-13A @ 1.5', Sample-19 @ 1', Sample-22A @ 3', and Sample-32 @ 1' to 271.18 mg/Kg for soil sample Sample-31 @ 1'. TPH concentration ranged from less than the applicable MDL for soil samples Sample-11 @ 2', Sample-13A @ 1.5', Sample-19 @ 1', Sample-22A @ 3', Sample-29 @ 3", Sample-32 @ 1' to 20,110 mg/Kg for soil sample Sample-18 @ 1.5'. Chloride concentrations ranged from 6.09 mg/Kg for soil sample Sample-27A @ 3.5' to 146 mg/Kg for soil sample Sample-30 @ 3". Please reference Table 1 for a Summary of Concentrations of Benzene, BTEX, TPH, and Chloride Concentrations in Soil.

Based on the analytical results, impacted soil represented by soil samples Sample-18 @ 1.5', Sample-30 @ 3", and Sample-31 @ 1' warranted additional remediation activities. In addition, the analytical results indicated no additional excavation activities were warranted in the areas represented by soil samples Sample-2A @ 5', Sample-13A @1.5', Sample-17A @ 1', Sample-22A @ 3', and Sample-27A @ 3.5'.

On May 18, 2016, as at request of the BLM, Micro-Blaze<sup>®</sup> was applied to the surface of the soil in all areas affected by the release. Micro-Blaze<sup>®</sup> is a product which is designed to augment the population of microbes in the soil and enhance the bio-remediation of hydrocarbon impacted soil.

On June 6, 2016, TRC, on behalf of Plains, began transporting all excavated impacted soil to Lea Land, LLC (Permit WM-01-035), as requested by the BLM. The Lea Land, LLC facility is located approximately thirty (30) miles east of Carlsbad, New Mexico at mile marker 64 on U.S. Hwy 62/180. All impacted soil was transported under manifest and Disposal Site Manifests were obtained and retained. From June 6, 2016 through June 17, 2016, excavation and transportation of impacted soil were conducted concurrently. A total of approximately 3,260 cy (3,246 tons) of impacted soil were disposed of at Lea Land, LLC. The Certificate of Non-Exempt Waste Status (NMOCD Form C-138) is provided as Appendix C. Copies of the Lea Land, LLC Disposal Manifests are provided in Appendix D.

On June 6, 2016, five (5) soil samples (Sample-21A @ 1.5', Sample-7A @ 1', Sample-18A @ 2', Sample-30A @ 1', and Sample-31A @ 1.5') were collected and submitted to Permian Lab for determination of concentrations of benzene, BTEX, TPH, and chloride. Please reference the Site Details and Confirmation Soil Sample Location Map provided as Figure 2.

The analytical results indicated benzene concentrations were less than the applicable MDL for all five (5) soil samples. BTEX concentrations ranged from less than the applicable MDL for soil samples Sample-18A @ 2', Sample-30A @ 1', and Sample-31A @ 1.5' to 15.08 mg/Kg for soil sample Sample-21A @ 1.5'. TPH concentrations ranged from less than the applicable MDL for soil samples Sample-18A @ 2' and Sample-31A @ 1.5' to 4,928 mg/Kg for soil sample Sample-21A @ 1.5'. Chloride concentrations ranged from 9.87 mg/Kg for soil sample Sample-31A @ 1.5' to 39.9 mg/Kg for soil sample Sample-18A @ 2'. Please reference Table 1 for a Summary of Concentrations of Benzene, BTEX, TPH, and Chloride Concentrations in Soil.

Based on the analytical results, no additional excavation was warranted in the areas represented by soil samples Sample-21A @ 1.5', Sample-7A @ 1', Sample-18A @ 2', Sample-30A @ 1', and Sample-31A @ 1.5'.

On June 14, 2016, four (4) soil samples (Sample-3A @ 6", SK-500B @ 1.5', SK-200B @ 1,' and P400B @ 2') were collected and submitted to Permian Lab for determination of concentrations of benzene, BTEX, TPH, and chloride. Please reference the Site Details and Confirmation Soil Sample Location Map provided as Figure 2.

The analytical results indicated benzene concentrations ranged from less than the applicable MDL for soil samples SK-500B @ 1.5', SK-200B @ 1', P400B @ 2' to 0.174 mg/Kg for soil sample Sample-3A @ 6". BTEX concentrations ranged from 0.2630 for soil sample SK-500B @ 1.5' to 23.874 mg/Kg for soil sample Sample-3A @ 6". TPH concentrations ranged from 1,146 mg/Kg for soil sample SK-500B @ 1.5' to 14,390 mg/Kg for soil sample Sample-3A @ 6". Chloride concentrations ranged from 12.8 mg/Kg for soil sample P400B @ 2' to 308 mg/Kg for soil sample SK-200B @ 1'. Please reference Table 1 for a Summary of Concentrations of Benzene, BTEX, TPH, and Chloride Concentrations in Soil.

Based on the analytical results, no additional remediation activities were warranted in the area represented by soil sample SK-500B @ 1.5'. Soil samples Sample-3A @ 6", SK-200B @ 1' and P400B @ 2' were collected from areas adjacent to piping and equipment supports and cannot be further excavated without compromising the integrity of the supports.

On June 16, 2016, Micro-Blaze® was reapplied to the surface of the soil in all areas affected by the release.

On June 20, 2016, TRC began recovering excess caliche placed outside of the north and south fences of the facility which was purchased during the initial construction phase of the Cotton Draw Station. The non-impacted caliche was stockpiled for use as future backfill material.

On June 27, 2016, a TRC representative, on behalf of Plains, met with a NMOCD District 1 representative in the Hobbs, New Mexico Office. The TRC representative presented the analytical data derived from soil samples collected at the Cotton Draw Station Release Site and submitted to the laboratory for analysis of concentrations of benzene, BTEX, TPH, and chloride.

The TRC representative indicated three (3) soil samples (Sample-3A @ 6", SK-200B @ 1', and P400B @ 2') exhibited TPH concentrations exceeding the NMOCD regulatory guideline. The TRC representative indicated the three (3) soil samples were located adjacent to a concrete structural support, under an equipment skid and beneath the aboveground piping, respectively and excavation in these areas could create a potential safety and environmental hazard. The NMOCD representative verbally approved leaving the limited areas of impact "in situ" and allowing the existing excavation to be backfilled with non-impacted material.

On June 28, 2016, a Plains representative met with a BLM representative to discuss the current status of the Release Site and request permission to backfill the existing excavation with non-

impacted material. The BLM verbally approved the backfilling of the existing excavation with the following conditions:

- The areas represented by soil samples Sample-3A @ 6", SK-200B @ 1', and P400B @ 2' must be treated with Micro-Blaze® before backfilling can commence.
- The areas stated above must be marked with stakes prior to backfilling, to identify the areas of concern.
- Non-impacted caliche placed outside the facility fences during the facility construction phase will be removed and utilized as backfill material.
- Additional volumes of non-impacted caliche will be purchased from the New Mexico State Land Office (NMSLO) to complete the backfilling of the excavation.
- The areas of concern must be resampled for BTEX by Method 8021B, TPH by Method 8015M, and chloride by Method E300.0, six (6) months after the backfilling has been completed.
- Non-impacted soil will be purchased from Lea Land to backfill remediated areas south of the facility fence.

Please reference Appendix E for NMOCD and BLM Correspondence.

On June 29, 2016, Micro-Blaze<sup>®</sup> was reapplied to the surface of the soil in all areas affected by the release and wooden stakes identifying the areas of concern were placed at the sample points, as requested by the BLM.

On July 5, 2016, a Plains representative summarized the NMOCD and BLM approvals and conditions and emailed the correspondence for written approval by the NMOCD and BLM, prior to commencing the backfilling activities. On July 7, 2016, a NMOCD representative responded and concurred with the BLM conditions for backfilling and closure.

On July 21, 2016, a BLM representative responded with permission to backfill the excavation, further stating "Any further action BLM might take will wait on the results of the additional sampling in 6 months". Please reference Appendix E for NMOCD and BLM Correspondence.

On August 2 through 4, 2016, approximately five-hundred forty (540) cubic yards (cy) of non-impacted top soil was purchased from Lea Land, LLC and transported to the Release Site, as approved by the BLM. The non-impacted topsoil was utilized to backfill the excavated pasture located south of the facility fence and to pad the existing pipelines and electrical conduit during backfilling activities. The topsoil was water compacted to limit slumping of the soil and potential erosion of the soil.

On August 10, 2016, TRC, on behalf on Plains, purchased one-thousand (1,000) cy of caliche from the New Mexico State Land Office (NMSLO). On August 16 through 23, 2016, approximately 1,000 cy of caliche was transported from NMSLO Pit #636 (NMSLO Permit #CO 5472) to the Release Site for use as backfill material.

On September 19, 2016, TRC, on behalf of Plains, purchased approximately 2,180 cy of chat from a local landowner to be utilized for "capping" the Cotton Draw Station. The chat was

transported to the Cotton Draw Station, water packed and mechanically rolled to minimize slumping. In areas adjacent to pipelines and equipment skids the chat was compacted using hand compacters.

On October 26, 2016, the "capping" of the Cotton Draw Station was completed and equipment was transported off-site. A limited volume of chat is stockpiled in the northeast corner of the truck unloading area, to be utilized in backfilling areas which are currently occupied by temporary equipment.

On December 16, 2016, three (3) soil samples (Sample-3B @ 6", SK-200C @ 1', and P400C @ 2') were collected and submitted to the laboratory, as requested by the BLM and in concurrence with the NMOCD. The analytical results indicated concentrations of benzene ranged from less than the applicable MDL for soil samples SK-200C @ 1' and P400C @ 2' to 0.00278 mg/Kg for soil sample Sample-3B @ 6". BTEX concentrations ranged from 0.05928 mg/Kg for soil sample SK-200C @ 1' to 0.20848 mg/Kg for soil sample Sample-3B @ 6". TPH concentrations ranged from 1,795 mg/Kg for soil sample SK-200C @ 1' to 4,741 mg/Kg for soil sample Sample-3B @ 6". Chloride concentrations ranged from 4.82 mg/Kg for soil sample SK-200C @ 1' to 33.6 mg/Kg for soil sample Sample-3B @ 6". Please reference the Site Details and Confirmation Soil Sample Location Map provided as Figure 2. Please reference Table 1 for a Summary of Concentrations of Benzene, BTEX, TPH, and Chloride Concentrations in Soil.

Based on the analytical results, all concentrations of benzene, BTEX, TPH, and chloride are less than NMOCD regulatory guidelines and no additional remediation activities are warranted at the Release Site.

#### 4.0 QA/QC PROCEDURES

#### 4.1 Soil Sampling

Soil samples were obtained utilizing single-use, disposable, latex gloves and clean sampling tools. The soil sample was placed in a labelled disposable Ziploc sample bag.

A portion of the soil sample was then placed in a sterile glass container equipped with a Teflon-lined lid furnished by the analytical laboratory. The container was filled to capacity to limit the amount of headspace present. Each container was labeled and placed on ice in an insulated cooler. On selection of samples for analysis, the cooler was sealed for shipment to the laboratory. Proper chain-of-custody documentation was maintained throughout the sampling process.

Soil samples were delivered to Permian Lab, in Midland, Texas for BTEX, TPH and chloride analyses using the method described below.

- TPH concentrations in accordance with modified EPA Method 8015M GRO/DRO/ORO
- BTEX concentrations in accordance with EPA Method SW-846 8021B
- Chloride concentrations in accordance with EPA Method E 300.

#### 4.2 Decontamination of Equipment

Soil sampling tools such as small hand shovels were washed with Liqui-Nox® detergent and rinsed with distilled water between the collections of soil samples.

#### 4.3 Laboratory Protocol

The laboratory was responsible for proper QA/QC procedures after signing the chain-of-custody form.

#### 5.0 CLOSURE REQUEST

Based on the analytical results of confirmation soil samples obtained from the floor and sidewalls of the excavation, TRC recommends Plains provide the NMOCD and BLM a copy of this Remediation Summary and Site Closure Request and request the NMOCD and BLM grant closure for the Cotton Draw Station Release Site Incident.

#### 6.0 LIMITATIONS

TRC prepared this Remediation Summary and Site Closure Request to the best of its ability. No other warranty, expressed or implied, is made or intended.

TRC has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. TRC has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. TRC has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. TRC also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Plains Pipeline, L.P. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of TRC and/or Plains Pipeline L.P.

#### 7.0 DISTRIBUTION

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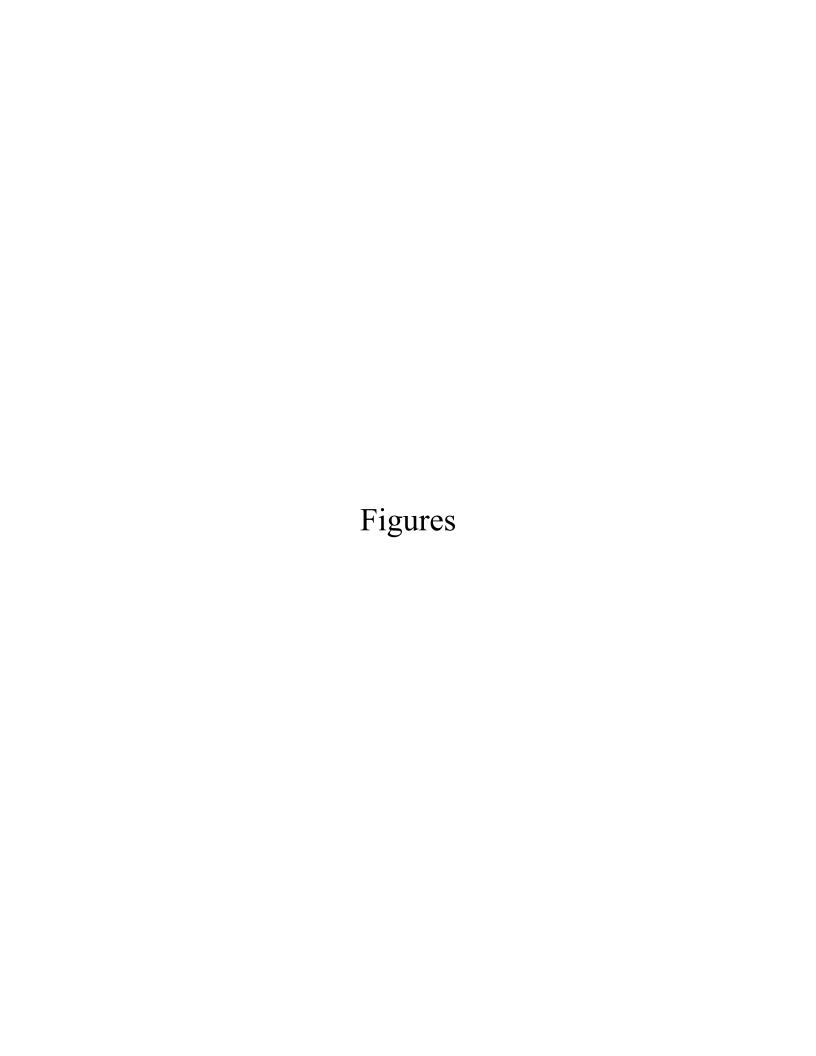
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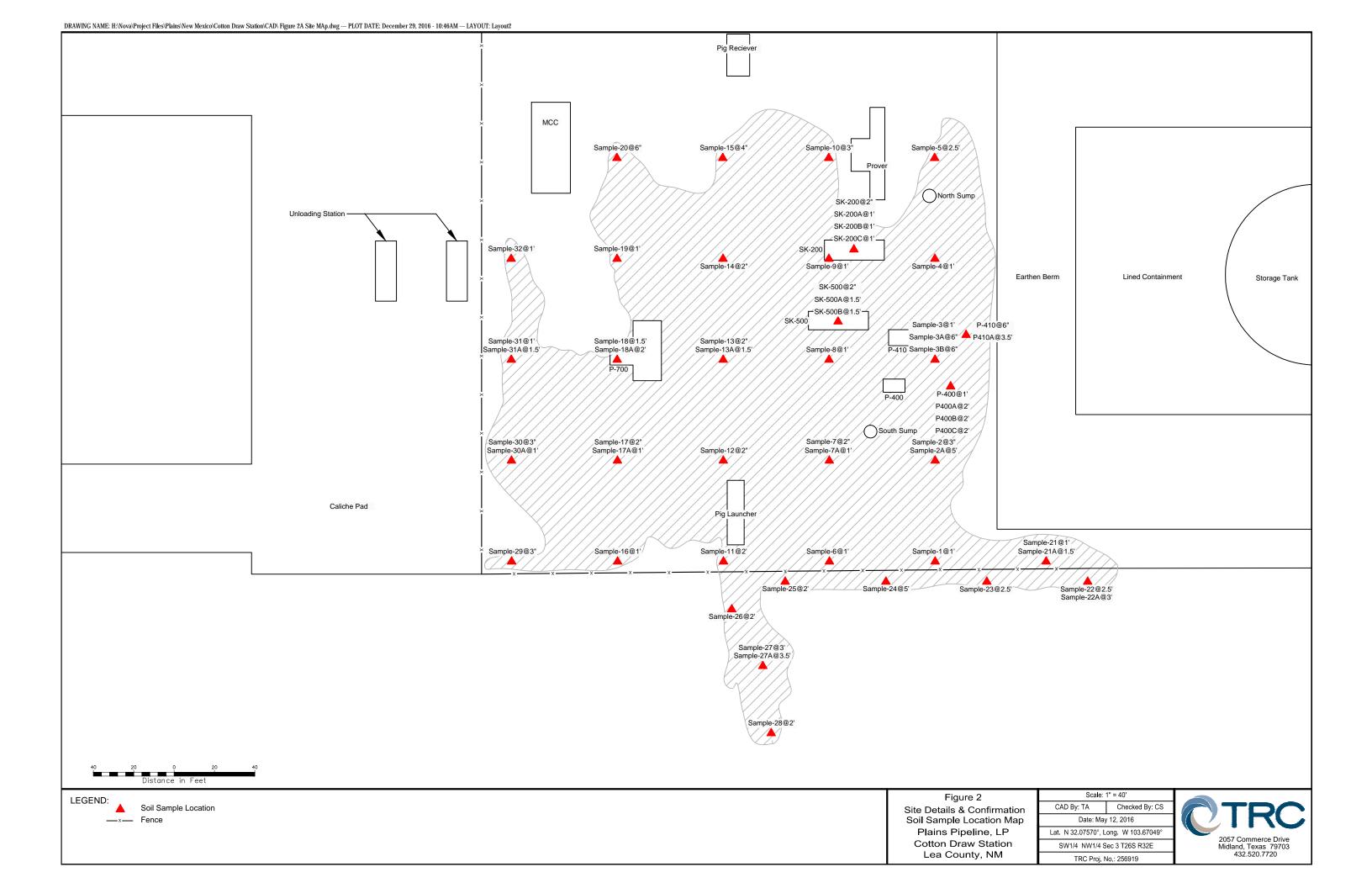
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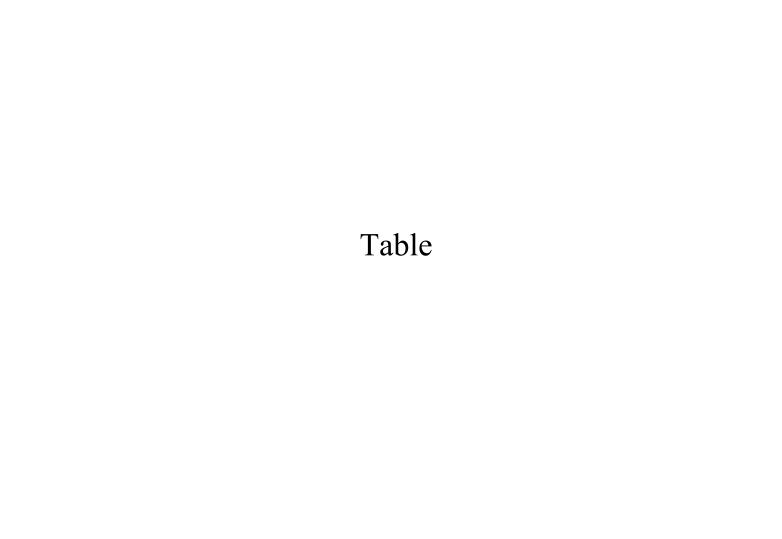
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#### TABLE 1 SUMMARY BENZENE, BTEX, TPH, AND CHLORIDE CONCENTRATIONS IN SOIL

#### COTTON DRAW STATION PLAINS PIPELINE, L.P. LEA COUNTY, NM PLAINS SRS NUMBER 2016-057 NMOCD Reference 1RP-4276

					Me	thods: EPA SW 8	346-8021B, 5030				Met	thods:		Method:
SAMPLE	SAMPLE	SAMPLE DEPTH	STATUS	BENZENE	TOLUENE	ETHYL-	m,p,	o-XYLENE	TOTAL		EPA SW	846-8015M		E300
LOCATION	DATE	(feet)	STATUS	(mg/Kg)	(mg/Kg)	BENZENE (mg/Kg)	XYLENE (mg/Kg)	(mg/Kg)	BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	ORO (mg/Kg)	TOTAL TPH (mg/Kg)	CHLORIDE (mg/Kg)
NMOCD Reg	ulatory Guide	eline		10	-	-	-	-	50	-	-	-	5,000	1,000
SK-200 @ 2"	04/21/16	2"	Excavated	-	-	-	-	-	-	5,770	14,500	2,120	22,390	-
P-410 @ 6"	04/21/16	6"	Excavated	-	-	-	-	-	-	8,800	17,100	2,500	28,400	-
P-400 @ 1'	04/21/16	1'	Excavated	-	-	-	-	-	-	2,970	7,140	1,190	11,300	-
SK-500 @ 2"	04/21/16	2"	Excavated	-	-	-	-	-	-	5,430	22,500	3,030	30,960	-
P-400A @ 2'	05/06/16	2'	Treated	< 0.0510	0.163	0.830	3.70	1.31	6.003	1,120	7,480	718	9,318	123
P-410A @ 3.5'	05/06/16	3.5'	In-Situ	< 0.00103	< 0.00206	< 0.00103	< 0.00206	< 0.00103	< 0.00206	33.6	164	38.3	235.9	17.1
SK-500A @ 1.5'	05/06/16	1.5'	Treated	< 0.0202	0.200	0.336	1.50	0.475	2.511	377	4,910	451	5,738	82.5
SK-200A @ 1'	05/06/16	1'	Treated	< 0.0202	0.426	0.556	2.37	0.770	4.122	715	5,010	440	6,165	49.4
Sample-1 @ 1'	05/06/16	1'	In-Situ	< 0.00101	< 0.00202	< 0.00101	< 0.00202	< 0.00101	< 0.00202	<25.3	32.5	<25.3	32.5	7.18
Sample-2 @ 3"	05/06/16	3"	Excavated	< 0.101	6.98	8.17	33.7	12.8	61.65	2,400	9,190	832	12,422	25.2
Sample 3 @ 1'	05/06/16	1'	Treated	< 0.00102	0.141	0.0862	0.353	0.108	0.6882	8,430	15,000	1,270	24,700	121
Sample-4 @ 1'	05/06/16	1'	In-Situ	< 0.00101	0.00640	0.00266	0.0248	0.00664	0.04050	<25.3	40.3	<25.3	40.3	46.2
Sample-5 @ 2.5'	05/06/16	2.5'	In-Situ	< 0.00101	< 0.00202	0.00112	0.0103	0.00216	0.01358	<25.3	47.6	<25.3	47.6	67.8
Sample-6 @ 1'	05/06/16	1'	In-Situ	< 0.00101	< 0.00202	< 0.00101	0.00260	< 0.00101	0.00260	<25.3	<25.3	<25.3	<25.3	15.1
Sample-7 @ 2"	05/06/16	2"	Excavated	< 0.00101	0.0206	0.0298	0.139	0.0475	0.23690	1,210	10,800	1,620	13,630	95.7
Sample-8 @ 1'	05/06/16	1'	In-Situ	< 0.00102	< 0.00204	< 0.00102	< 0.00204	< 0.00102	< 0.00204	<25.5	88.7	43.1	131.8	47.8
Sample-9 @ 1'	05/06/16	1'	In-Situ	< 0.00102	< 0.00204	< 0.00102	< 0.00204	< 0.00102	< 0.00204	<25.5	<25.5	<25.5	<25.5	31.2
Sample-10 @ 3"	05/06/16	3"	In-Situ	< 0.00101	< 0.00202	0.00265	0.0303	0.0120	0.04495	<25.3	133	26.9	159.9	108
Sample-12 @ 2"	05/06/16	2"	In-Situ	< 0.00101	< 0.00202	0.00180	0.0264	0.0103	0.03850	59.0	1,440	228	1,727.0	303
Sample-13 @ 2"	05/06/16	2"	Excavated	< 0.00102	0.00945	0.0212	0.0999	0.0328	0.16335	2,430	12,800	1,990	17,220	103
Sample-14 @ 2"	05/06/16	2"	In-Situ	< 0.00102	< 0.00204	0.0111	0.0759	0.0319	0.1189	59.8	796	140	995.8	34.4
Sample-15 @ 4"	05/06/16	4"	In-Situ	< 0.00102	< 0.00204	< 0.00102	< 0.00204	< 0.00102	< 0.00204	<25.5	<25.5	<25.5	<25.5	58.2
Sample-16 @ 1'	05/06/16	1'	In-Situ	< 0.00103	< 0.00206	< 0.00103	< 0.00206	< 0.00103	< 0.00206	<25.8	<25.8	<25.8	<25.8	11.1
Sample-17 @ 2"	05/06/16	2"	Excavated	< 0.00102	0.00678	0.0202	0.103	0.0363	0.16628	1,580	11,000	1,720	14,300	90.3
Sample-21 @ 1'	05/06/16	1'	Excavated	< 0.00101	0.00296	0.0167	0.0833	0.0261	0.12906	580	3,910	554	5,044	6.31
Sample-22 @ 2.5'	05/06/16	2.5'	Excavated	< 0.00102	< 0.00204	0.00567	0.0807	0.0238	0.11017	1,190	6,520	1,000	8,710	7.50
Sample-23 @ 2.5'	05/06/16	2.5'	In-Situ	< 0.00101	< 0.00202	< 0.00101	0.0102	0.00227	0.01247	36.3	688	118	842.3	11.2
Sample-24 @ 5'	05/06/16	5'	In-Situ	< 0.00101	< 0.00202	< 0.00101	0.00353	< 0.00101	0.00353	<25.3	156	28.4	184.4	43.3
Sample-25 @ 2'	05/06/16	2'	In-Situ	< 0.00101	0.00631	0.00441	0.0405	0.0173	0.06852	<25.3	94.5	<25.3	94.5	7.71

#### TABLE 1 SUMMARY BENZENE, BTEX, TPH, AND CHLORIDE CONCENTRATIONS IN SOIL

#### COTTON DRAW STATION PLAINS PIPELINE, L.P. LEA COUNTY, NM PLAINS SRS NUMBER 2016-057 NMOCD Reference 1RP-4276

					Me	thods: EPA SW 8	346-8021B, 5030				Met	hods:		Method:
SAMPLE	SAMPLE	SAMPLE DEPTH	STATUS	BENZENE	TOLUENE	ETHYL-	m,p,	o-XYLENE	TOTAL		EPA SW	846-8015M		E300
LOCATION	DATE	(feet)	STATUS	(mg/Kg)	(mg/Kg)	BENZENE (mg/Kg)	XYLENE (mg/Kg)	(mg/Kg)	BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	ORO (mg/Kg)	TOTAL TPH (mg/Kg)	CHLORIDE (mg/Kg)
NMOCD Reg	ulatory Guide	eline		10	-	-	-	-	50	-	-	-	5,000	1,000
Sample-26 @ 2'	05/06/16	2'	In-Situ	< 0.00101	< 0.00202	< 0.00101	0.00322	< 0.00101	0.00322	<25.3	56.3	<25.3	56.3	9.12
Sample-27 @ 3'	05/06/16	3'	Excavated	< 0.00101	0.00354	0.0137	0.0665	0.0207	0.10444	1,160	6,620	984	8,764	5.26
Sample-28 @ 3'	05/06/16	3'	In-Situ	< 0.00100	< 0.00200	0.00447	0.0287	0.0113	0.04447	163	1,030	80.1	1,273.1	4.58
Sample-2A @ 5'	05/17/16	5'	In-Situ	0.0183	0.335	0.0952	0.386	0.117	0.9515	27.5	988	116	1,131.5	14.7
Sample-11 @ 2'	05/17/16	2'	In-Situ	< 0.00104	0.0134	0.00717	0.0436	0.0209	0.08507	<26.0	<26.0	<26.0	<26.0	6.25
Sample 13A @ 1.5'	05/17/16	1.5'	In-Situ	< 0.00102	< 0.00204	< 0.00102	< 0.00204	< 0.00102	< 0.00204	<25.5	<25.5	<25.5	<25.5	10.9
Sample -17A @ 1'	05/17/16	1'	In-Situ	0.0514	1.31	0.677	2.92	0.982	5.9404	364	3,160	326	3,850	44.9
Sample -18 @ 1.5'	05/17/16	1.5'	Excavated	3.42	23.5	11.0	35.6	14.2	87.72	7,400	11,300	1,410	20,110	43.3
Sample-19 @ 1'	05/17/16	1'	In-Situ	< 0.00102	< 0.00204	< 0.00102	< 0.00204	< 0.00102	< 0.00204	<25.5	<25.5	<25.5	<25.5	16.0
Sample-20 @ 6"	05/17/16	6"	In-Situ	0.0215	0.327	0.259	1.36	0.357	2.3245	316	2,320	241	2,877	62.3
Sample-22A @ 3'	05/17/16	3'	In-Situ	< 0.00103	< 0.00206	< 0.00103	< 0.00206	< 0.00103	< 0.00206	<25.8	<25.8	<25.8	<25.8	8.62
Sample-27A @ 3.5'	05/17/16	3.5'	In-Situ	< 0.00102	< 0.00204	< 0.00102	0.00735	0.00380	0.01115	<25.5	86.5	<25.5	86.5	6.09
Sample-29 @ 3"	05/17/16	3"	In-Situ	< 0.0202	0.273	0.152	0.951	0.206	1.582	<25.3	<25.3	<25.3	<25.3	105
Sample-30 @ 3"	05/17/16	3"	Excavated	0.130	1.41	1.14	8.88	2.86	14.420	2,020	14,800	1,720	18,540	146
Sample-31 @ 1'	05/17/16	1'	Excavated	7.68	72.3	23.9	138	29.3	271.18	4,940	7,880	1,030	13,850	49.6
Sample-32 @ 1'	05/17/16	1'	In-Situ	< 0.00101	< 0.00202	< 0.00101	< 0.00202	< 0.00101	< 0.00202	<25.3	<25.3	<25.3	<25.3	12.4
Sample-21A @ 1.5'	06/06/16	1.5'	In-Situ	< 0.0510	1.51	1.14	10.1	2.33	15.08	772	3,790	366	4,928	33.4
Sample-7A @ 1'	06/06/16	1'	In-Situ	< 0.0515	< 0.103	< 0.0515	< 0.103	1.21	1.21	<25.8	53.9	<25.8	53.9	27.5
Sample 18A @ 2'	06/06/16	2'	In-Situ	< 0.0510	< 0.102	< 0.0510	< 0.102	< 0.0510	< 0.102	<25.5	<25.5	<25.5	<25.5	39.9
Sample-30A @ 1'	06/06/16	1'	In-Situ	< 0.0510	< 0.102	< 0.0510	< 0.102	< 0.0510	< 0.102	<25.5	41.9	<25.5	41.9	29.1
Sample-31A @ 1.5'	06/06/16	1.5'	In-Situ	< 0.0515	< 0.103	< 0.0515	< 0.103	< 0.0515	< 0.103	<25.8	<25.8	<25.8	<25.8	9.87
Sample-3A @ 6"	06/14/16	6"	Treated	0.174	4.19	1.79	13.5	4.22	23.874	1,240	11,500	1,650	14,390	48.4
SK-500B @ 1.5'	06/14/16	1.5'	In-Situ	< 0.0202	< 0.0404	0.0210	0.138	0.104	0.2630	<25.3	927	219	1,146	124
SK-200B @ 1'	06/14/16	1'	Treated	< 0.0202	0.772	0.633	4.47	1.41	7.285	668	8,980	1,110	10,758	308
P400B @ 2'	06/14/16	2'	Treated	< 0.0204	0.736	< 0.0204	5.03	1.89	7.656	1,060	7,410	914	9,384	12.8
Sample-3B @ 6"	12/16/16	6"	In-Situ	0.00278	0.0125	0.0117	0.0585	0.123	0.20848	737	3,500	504	4,741	33.6

#### TABLE 1 SUMMARY BENZENE, BTEX, TPH, AND CHLORIDE CONCENTRATIONS IN SOIL

#### COTTON DRAW STATION PLAINS PIPELINE, L.P. LEA COUNTY, NM PLAINS SRS NUMBER 2016-057 NMOCD Reference 1RP-4276

					Methods: EPA SW 846-8021B, 5030							Methods:			
SAMPLE	SAMPLE	SAMPLE DEPTH	STATUS	BENZENE	TOLLIENE	ETHYL-	m,p,	WAY DAID	TOTAL		EPA SW	846-8015M		E300	
LOCATION	DATE	(feet)	STATUS	(mg/Kg)	TOLUENE (mg/Kg)	BENZENE (mg/Kg)	XYLENE (mg/Kg)	o-XYLENE (mg/Kg)	BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	ORO (mg/Kg)	TOTAL TPH (mg/Kg)	CHLORIDE (mg/Kg)	
NMOCD Re	gulatory Guid	eline		10	-	•	•	-	50	•	•	-	5,000	1,000	
SK-200C @ 1'	12/16/16	1'	In-Situ	< 0.00104	0.00250	0.00288	0.0291	0.0248	0.05928	267	1,330	198	1,795	4.82	
P400C @ 2'	12/16/16	2'	In-Situ	< 0.00106	0.00414	0.0153	0.0394	0.0172	0.07604	421	2,170	302	2,893	10.4	

# Appendix A Photographic Documentation



Client: Plains Pipeline, L.P.

Project Name: Cotton Draw Station

Prepared by: TRC Environmental Corporation

Location: Lea County, New Mexico

Photograph No. 1

Date: April 20, 2016

Description: Looking northeast.

Initial photo of Release from inside southwest gate.



Photograph No. 2

Date: May 6, 2016

Description: Looking northnortheast

Excavation activities in progress.





Client: Plains Pipeline, L.P.

Project Name: Cotton Draw Station

Prepared by: TRC Environmental Corporation Location: Lea County, New Mexico

Photograph No. 3

Date:

May 11, 2016

Description: Looking east.

Excavation activities in progress.



Photograph No. 4

Date:

May 18, 2016

Description:

Looking northeast.

Excavation activities in progress.





Client: Plains Pipeline, L.P.

Project Name: Cotton Draw Station

Prepared by: TRC Environmental Corporation

Location: Lea County, New Mexico

Photograph No. 5

Date:

May 18, 2016

Description: Looking south

Excavation activities in progress in pasture adjacent to Station



Photograph No. 6

Date:

October 26, 2016

Description: Looking north

Backfilling and capping of Station completed.





Client: Plains Pipeline, L.P.

Project Name: Cotton Draw Station

Prepared by: TRC Environmental Corporation

Location: Lea County, New Mexico

Photograph No. 7

Date:

October 26, 2016

**Description:** 

Looking northeast.

Backfilling and capping of Station completed.



Photograph No. 8

Date:

October 26, 2016

Description: Looking east.

Backfilling and capping of Station completed.





Client: Plains Pipeline, L.P.

Project Name: Cotton Draw Station

Prepared by: TRC Environmental Corporation

Location: Lea County, New Mexico

Photograph No. 9

Date:

October 26, 2016

Description:

Looking northeast.

Backfilling and capping of Station completed.



Photograph No. 10

Date:

October 26, 2016

Description: Looking east.

Backfilling and capping of Station completed. Photo from outside southwest gate.



# Appendix B Laboratory Analytical Reports

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



### Analytical Report

#### **Prepared for:**

Curt Stanley
TRC Solutions- Midland, Texas
2057 Commerce Street
Midland, TX 79703

Project: Cotton Draw South
Project Number: SRS#2016-057
Location: Lea County, New Mexico

Lab Order Number: 6D25004



NELAP/TCEQ # T104704156-13-3

Report Date: 04/29/16

TRC Solutions- Midland, Texas 2057 Commerce Street

Project: Cotton Draw South
Project Number: SRS#2016-057

Midland TX, 79703

Project Manager: Curt Stanley

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SK-200 @ 2"	6D25004-01	Soil	04/21/16 13:00	04-25-2016 11:00
P-410 @ 6"	6D25004-02	Soil	04/21/16 12:13	04-25-2016 11:00
P-400 @ 1'	6D25004-03	Soil	04/21/16 13:20	04-25-2016 11:00
SK-500 @ 2"	6D25004-04	Soil	04/21/16 13:30	04-25-2016 11:00

Fax: (432) 520-7701

TRC Solutions- Midland, Texas Project: Cotton Draw South Fax: (432) 520-7701

2057 Commerce StreetProject Number:SRS#2016-057Midland TX, 79703Project Manager:Curt Stanley

#### SK-200 @ 2" 6D25004-01 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin I	Environmen	tal Lab, l	L.P.				
General Chemistry Parameters by EP	A / Standard Methods	5							
% Moisture	4.0	0.1	%	1	P6D2704	04/27/16	04/27/16	% calculation	
Total Petroleum Hydrocarbons C6-C3	5 by EPA Method 801	15M							
C6-C12	5770	125	mg/kg wet	5	P6D2806	04/26/16	04/27/16	TPH 8015M	
>C12-C28	14500	125	mg/kg wet	5	P6D2806	04/26/16	04/27/16	TPH 8015M	
>C28-C35	2120	125	mg/kg wet	5	P6D2806	04/26/16	04/27/16	TPH 8015M	
Surrogate: 1-Chlorooctane		113 %	70-1.	30	P6D2806	04/26/16	04/27/16	TPH 8015M	
Surrogate: o-Terphenyl		106 %	70-1.	30	P6D2806	04/26/16	04/27/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	22400	125	mg/kg wet	5	[CALC]	04/26/16	04/27/16	calc	

TRC Solutions- Midland, Texas Project: Cotton Draw South Fax: (432) 520-7701

2057 Commerce StreetProject Number:SRS#2016-057Midland TX, 79703Project Manager:Curt Stanley

#### P-410 @ 6" 6D25004-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Racin I	Environmen	ıtal Lah	I. P				
	1 CI III	ian Dasin I	ZIIVII OIIIIICII	itai Lab,	L.I.				
<b>General Chemistry Parameters by E</b>	EPA / Standard Methods	l							
% Moisture	4.0	0.1	%	1	P6D2704	04/27/16	04/27/16	% calculation	
Total Petroleum Hydrocarbons C6-C	C35 by EPA Method 801	5M							
C6-C12	8800	125	mg/kg wet	5	P6D2806	04/26/16	04/27/16	TPH 8015M	
>C12-C28	17100	125	mg/kg wet	5	P6D2806	04/26/16	04/27/16	TPH 8015M	
>C28-C35	2500	125	mg/kg wet	5	P6D2806	04/26/16	04/27/16	TPH 8015M	
Surrogate: 1-Chlorooctane		110 %	70-1.	30	P6D2806	04/26/16	04/27/16	TPH 8015M	
Surrogate: o-Terphenyl		97.8 %	70-1.	30	P6D2806	04/26/16	04/27/16	TPH 8015M	
Total Petroleum Hydrocarbon	28400	125	mg/kg wet	5	[CALC]	04/26/16	04/27/16	calc	

C6-C35

Fax: (432) 520-7701 TRC Solutions- Midland, Texas Project: Cotton Draw South

2057 Commerce Street Project Number: SRS#2016-057 Midland TX, 79703 Project Manager: Curt Stanley

#### P-400 @ 1' 6D25004-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin E	nvironme	ntal Lab, l	L <b>.P.</b>				
<b>General Chemistry Parameters by EPA / St</b>	andard Methods	i							
% Moisture	7.0	0.1	%	1	P6D2704	04/27/16	04/27/16	% calculation	
<b>Total Petroleum Hydrocarbons C6-C35 by</b>	EPA Method 801	5M							
C6-C12	2970	125	mg/kg wet	5	P6D2806	04/26/16	04/27/16	TPH 8015M	
>C12-C28	7140	125	mg/kg wet	5	P6D2806	04/26/16	04/27/16	TPH 8015M	
>C28-C35	1190	125	mg/kg wet	5	P6D2806	04/26/16	04/27/16	TPH 8015M	

125 mg/kg wet

70-130

70-130

125 %

97.6 %

11300

C6-C35

 $Surrogate: \ 1\hbox{-}Chlorooctane$ 

**Total Petroleum Hydrocarbon** 

Surrogate: o-Terphenyl

04/26/16

04/26/16

04/26/16

P6D2806

P6D2806

[CALC]

04/27/16

04/27/16

04/27/16

TPH 8015M

TPH 8015M

calc

TRC Solutions- Midland, Texas Project: Cotton Draw South Fax: (432) 520-7701

2057 Commerce StreetProject Number:SRS#2016-057Midland TX, 79703Project Manager:Curt Stanley

#### SK-500 @ 2" 6D25004-04 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Consued Chamistan Danamatans by EDA / S			nvironmo	ental Lab, L	<b>Р.</b>				

General Chemistry Parameters by EPA / Star	dard Methods	S						
% Moisture	3.0	0.1	%	1	P6D2704	04/27/16	04/27/16	% calculation
Total Petroleum Hydrocarbons C6-C35 by EI	A Method 801	15M						
C6-C12	5430	125	mg/kg wet	5	P6D2806	04/26/16	04/27/16	TPH 8015M
>C12-C28	22500	125	mg/kg wet	5	P6D2806	04/26/16	04/27/16	TPH 8015M
>C28-C35	3030	125	mg/kg wet	5	P6D2806	04/26/16	04/27/16	TPH 8015M
Surrogate: 1-Chlorooctane		98.6 %	70-130		P6D2806	04/26/16	04/27/16	TPH 8015M
Surrogate: o-Terphenyl		95.6 %	70-130		P6D2806	04/26/16	04/27/16	TPH 8015M
Total Petroleum Hydrocarbon	30900	125	mg/kg wet	5	[CALC]	04/26/16	04/27/16	calc

C6-C35

TRC Solutions- Midland, Texas

2057 Commerce Street

Midland TX, 79703

Project: Cotton Draw South

Project Number: SRS#2016-057
Project Manager: Curt Stanley

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6D2704 - *** DEFAULT PREP ***										
Blank (P6D2704-BLK1)				Prepared &	Analyzed:	: 04/27/16				
% Moisture	ND	0.1	%							
Duplicate (P6D2704-DUP1)	Sour	rce: 6D25002-	30	Prepared &	Analyzed:	04/27/16				
% Moisture	15.0	0.1	%		15.0			0.00	20	
Duplicate (P6D2704-DUP2)	Sour	rce: 6D25002-	89	Prepared &	Analyzed:	: 04/27/16				
% Moisture	7.0	0.1	%		7.0			0.00	20	
Duplicate (P6D2704-DUP3)	Sour	rce: 6D25002-	90	Prepared &	Analyzed:	04/27/16				
% Moisture	8.0	0.1	%		8.0			0.00	20	
Duplicate (P6D2704-DUP4)	Sour	rce: 6D25003-	01	Prepared &	Analyzed:	04/27/16				
% Moisture	7.0	0.1	%	·	7.0			0.00	20	

Fax: (432) 520-7701

TRC Solutions- Midland, Texas Project: Cotton Draw South Fax: (432) 520-7701

2057 Commerce StreetProject Number:SRS#2016-057Midland TX, 79703Project Manager:Curt Stanley

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P6D2806 - TX 1005										
Blank (P6D2806-BLK1)				Prepared &	& Analyzed:	04/26/16				
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	94.7		"	100		94.7	70-130			
Surrogate: o-Terphenyl	52.2		"	50.0		104	70-130			
LCS (P6D2806-BS1)				Prepared &	& Analyzed:	04/26/16				
C6-C12	825	25.0	mg/kg wet	1000		82.5	75-125			
>C12-C28	971	25.0	"	1000		97.1	75-125			
Surrogate: 1-Chlorooctane	116		"	100		116	70-130			
Surrogate: o-Terphenyl	46.2		"	50.0		92.3	70-130			
LCS Dup (P6D2806-BSD1)				Prepared &	& Analyzed:	04/26/16				
C6-C12	813	25.0	mg/kg wet	1000		81.3	75-125	1.48	20	
>C12-C28	967	25.0	"	1000		96.7	75-125	0.451	20	
Surrogate: 1-Chlorooctane	114		"	100		114	70-130			
Surrogate: o-Terphenyl	46.0		"	50.0		92.1	70-130			
Matrix Spike (P6D2806-MS1)	Sou	rce: 6D25004	1-02	Prepared: (	04/26/16 A	nalyzed: 04	/27/16			
C6-C12	7290	125	mg/kg wet	1000	8800	NR	75-125			QM-05
>C12-C28	13600	125	"	1000	17100	NR	75-125			QM-05
Surrogate: 1-Chlorooctane	102		"	100		102	70-130			
Surrogate: o-Terphenyl	46.8		"	50.0		93.6	70-130			
Matrix Spike Dup (P6D2806-MSD1)	Sour	rce: 6D25004	1-02	Prepared: (	04/26/16 A	nalyzed: 04	/27/16			
C6-C12	7340	125	mg/kg wet	1000	8800	NR	75-125	NR	20	QM-05
>C12-C28	13700	125	"	1000	17100	NR	75-125	NR	20	QM-05
Surrogate: 1-Chlorooctane	112		"	100		112	70-130			
Surrogate: o-Terphenyl	59.4		"	50.0		119	70-130			

TRC Solutions- Midland, Texas Project: Cotton Draw South

2057 Commerce Street Project Number: SRS#2016-057
Midland TX, 79703 Project Manager: Curt Stanley

#### **Notes and Definitions**

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were

within acceptance limits showing that the laboratory is in control and the data is acceptable.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

	Dren	Darror			
Report Approved By:			Date:	4/29/2016	

D AR

Brent Barron, Laboratory Director/Technical Director

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

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

Fax: (432) 520-7701



# AND ANALYSIS REQUEST

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



## Analytical Report

#### **Prepared for:**

Curt Stanley
TRC Solutions- Midland, Texas
2057 Commerce Street
Midland, TX 79703

Project: Cotton Draw Station
Project Number: TBD

Location: Lea County, New Mexico

Lab Order Number: 6E09010



NELAP/TCEQ # T104704156-13-3

Report Date: 05/24/16

TRC Solutions- Midland, Texas 2057 Commerce Street

Midland TX, 79703

Project: Cotton Draw Station

Project Number: TBD
Project Manager: Curt Stanley

ANALYTICAL REPORT FOR SAMPLES

#### Sample ID Laboratory ID Matrix **Date Sampled Date Received** 6E09010-01 P-400 A @ 2' Soil 05/06/16 09:00 05-09-2016 13:47 P-410 A @ 3.5' 6E09010-02 Soil 05/06/16 09:05 05-09-2016 13:47 SK-500 A @ 1.5' 6E09010-03 Soil 05/06/16 09:10 05-09-2016 13:47 SK-200 A @ 1 6E09010-04 05/06/16 09:15 05-09-2016 13:47 Soil Sample-1 @ 1' 6E09010-05 Soil 05/06/16 09:20 05-09-2016 13:47 Sample-2 @ 3" 6E09010-06 Soil 05/06/16 09:30 05-09-2016 13:47 Sample-3 @ 1' 6E09010-07 05/06/16 09:40 05-09-2016 13:47 Soil Sample-4 @ 1' 6E09010-08 Soil 05/06/16 09:50 05-09-2016 13:47 Sample-5 @ 2.5' 6E09010-09 Soil 05/06/16 10:00 05-09-2016 13:47 6E09010-10 05/06/16 10:05 05-09-2016 13:47 Sample-6 @ 1' Soil Sample-7 @ 2" 6E09010-11 Soil 05/06/16 10:10 05-09-2016 13:47 Sample-8 @ 1' 6E09010-12 Soil 05/06/16 10:15 05-09-2016 13:47 Sample-9 @ 1' 6E09010-13 Soil 05/06/16 10:20 05-09-2016 13:47 Sample-10 @ 3" 6E09010-14 Soil 05/06/16 10:25 05-09-2016 13:47 Sample-12 @ 2" 6E09010-15 Soil 05/06/16 10:30 05-09-2016 13:47 Sample-13 @ 2" 6E09010-16 05/06/16 10:35 05-09-2016 13:47 Soil Sample-14 @ 2" 6E09010-17 Soil 05/06/16 10:40 05-09-2016 13:47 Sample-15 @ 4" 6E09010-18 05/06/16 10:45 05-09-2016 13:47 Soil Sample-16 @ 1' 6E09010-19 Soil 05/06/16 10:50 05-09-2016 13:47 Sample-17 @ 2" 6E09010-20 Soil 05/06/16 10:55 05-09-2016 13:47 Sample-21 @ 1' 6E09010-21 Soil 05/06/16 11:00 05-09-2016 13:47 Sample-22 @ 2.5' 6E09010-22 Soil 05/06/16 11:05 05-09-2016 13:47 Sample-23 @ 2.5' 6E09010-23 Soil 05/06/16 11:10 05-09-2016 13:47 Sample-24 @ 5' 6E09010-24 05/06/16 11:15 05-09-2016 13:47 Soil Sample-25 @ 2' 05/06/16 11:20 6E09010-25 Soil 05-09-2016 13:47 Sample-26 @ 2' 6E09010-26 Soil 05/06/16 11:25 05-09-2016 13:47 Sample-27 @ 3' 6E09010-27 05/06/16 11:30 05-09-2016 13:47 Soil Sample-28 @ 3' 6E09010-28 Soil 05/06/16 11:35 05-09-2016 13:47

Fax: (432) 520-7701

Project: Cotton Draw Station

2057 Commerce Street Midland TX, 79703 Project Number: TBD
Project Manager: Curt Stanley

P-400 A @ 2' 6E09010-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin F	Environme	ntal Lab, l	L <b>.P.</b>	-	-		
Organics by GC				-					
Benzene	ND	0.0510	mg/kg dry	50	P6E2305	05/18/16	05/19/16	EPA 8021B	
Toluene	0.163	0.102	mg/kg dry	50	P6E2305	05/18/16	05/19/16	EPA 8021B	
Ethylbenzene	0.830	0.0510	mg/kg dry	50	P6E2305	05/18/16	05/19/16	EPA 8021B	
Xylene (p/m)	3.70	0.102	mg/kg dry	50	P6E2305	05/18/16	05/19/16	EPA 8021B	
Xylene (o)	1.31	0.0510	mg/kg dry	50	P6E2305	05/18/16	05/19/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		66.9 %	75-1	25	P6E2305	05/18/16	05/19/16	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		115 %	75-1	25	P6E2305	05/18/16	05/19/16	EPA 8021B	
General Chemistry Parameters by EP.	A / Standard Method	s							
Chloride	123	1.02	mg/kg dry	1	P6E2311	05/23/16	05/23/16	EPA 300.0	
% Moisture	2.0	0.1	%	1	P6E1006	05/10/16	05/11/16	% calculation	
Total Petroleum Hydrocarbons C6-C3	5 by EPA Method 80	15M							
C6-C12	1120	128	mg/kg dry	5	P6E1108	05/10/16	05/11/16	TPH 8015M	
>C12-C28	7480	128	mg/kg dry	5	P6E1108	05/10/16	05/11/16	TPH 8015M	
>C28-C35	718	128	mg/kg dry	5	P6E1108	05/10/16	05/11/16	TPH 8015M	
Surrogate: 1-Chlorooctane		119 %	70-1	30	P6E1108	05/10/16	05/11/16	TPH 8015M	
Surrogate: o-Terphenyl		105 %	70-1	30	P6E1108	05/10/16	05/11/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	9310	128	mg/kg dry	5	[CALC]	05/10/16	05/11/16	calc	

Fax: (432) 520-7701

2057 Commerce StreetProject Number:TBDMidland TX, 79703Project Manager:Curt Stanley

P-410 A @ 3.5' 6E09010-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin F	Environmen	ıtal Lab, l	L <b>.P.</b>				
Organics by GC									
Benzene	ND	0.00103	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Toluene	ND	0.00206	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		120 %	75-1.	25	P6E2305	05/18/16	05/19/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		120 %	75-1.	25	P6E2305	05/18/16	05/19/16	EPA 8021B	
General Chemistry Parameters by EF	A / Standard Method	ls							
Chloride	17.1	1.03	mg/kg dry	1	P6E2311	05/23/16	05/23/16	EPA 300.0	
% Moisture	3.0	0.1	%	1	P6E1006	05/10/16	05/11/16	% calculation	
Total Petroleum Hydrocarbons C6-C3	35 by EPA Method 80	15M							
C6-C12	33.6	25.8	mg/kg dry	1	P6E1108	05/10/16	05/11/16	TPH 8015M	
>C12-C28	164	25.8	mg/kg dry	1	P6E1108	05/10/16	05/11/16	TPH 8015M	
>C28-C35	38.3	25.8	mg/kg dry	1	P6E1108	05/10/16	05/11/16	TPH 8015M	
Surrogate: 1-Chlorooctane		99.5 %	70-1.	30	P6E1108	05/10/16	05/11/16	TPH 8015M	
Surrogate: o-Terphenyl		94.2 %	70-1.	30	P6E1108	05/10/16	05/11/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	236	25.8	mg/kg dry	1	[CALC]	05/10/16	05/11/16	calc	

2057 Commerce StreetProject Number:TBDMidland TX, 79703Project Manager:Curt Stanley

#### SK-500 A @ 1.5' 6E09010-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
	Pern	nian Basin I	Environme	ntal Lab,	L <b>.P.</b>				
Organics by GC									
Benzene	ND	0.0202	mg/kg dry	20	P6E2305	05/18/16	05/19/16	EPA 8021B	
Toluene	0.200	0.0404	mg/kg dry	20	P6E2305	05/18/16	05/19/16	EPA 8021B	
Ethylbenzene	0.336	0.0202	mg/kg dry	20	P6E2305	05/18/16	05/19/16	EPA 8021B	
Xylene (p/m)	1.50	0.0404	mg/kg dry	20	P6E2305	05/18/16	05/19/16	EPA 8021B	
Xylene (o)	0.475	0.0202	mg/kg dry	20	P6E2305	05/18/16	05/19/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		75.5 %	75-1	25	P6E2305	05/18/16	05/19/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		118 %	75-1	25	P6E2305	05/18/16	05/19/16	EPA 8021B	
<b>General Chemistry Parameters by EI</b>	PA / Standard Method	ls							
Chloride	82.5	1.01	mg/kg dry	1	P6E2311	05/23/16	05/23/16	EPA 300.0	
% Moisture	1.0	0.1	%	1	P6E1006	05/10/16	05/11/16	% calculation	
Total Petroleum Hydrocarbons C6-C.	35 by EPA Method 80	15M							
C6-C12	377	25.3	mg/kg dry	1	P6E1108	05/10/16	05/11/16	TPH 8015M	
>C12-C28	4910	25.3	mg/kg dry	1	P6E1108	05/10/16	05/11/16	TPH 8015M	
>C28-C35	451	25.3	mg/kg dry	1	P6E1108	05/10/16	05/11/16	TPH 8015M	
Surrogate: 1-Chlorooctane		116 %	70-1	30	P6E1108	05/10/16	05/11/16	TPH 8015M	
Surrogate: o-Terphenyl		98.3 %	70-1	30	P6E1108	05/10/16	05/11/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	5740	25.3	mg/kg dry	1	[CALC]	05/10/16	05/11/16	calc	

2057 Commerce StreetProject Number:TBDMidland TX, 79703Project Manager:Curt Stanley

#### SK-200 A @ 1 6E09010-04 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
	Pern	nian Basin F	Environmen	ıtal Lab, l	L <b>.P.</b>				
Organics by GC									
Benzene	ND	0.0202	mg/kg dry	20	P6E2305	05/18/16	05/19/16	EPA 8021B	
Toluene	0.426	0.0404	mg/kg dry	20	P6E2305	05/18/16	05/19/16	EPA 8021B	
Ethylbenzene	0.556	0.0202	mg/kg dry	20	P6E2305	05/18/16	05/19/16	EPA 8021B	
Xylene (p/m)	2.37	0.0404	mg/kg dry	20	P6E2305	05/18/16	05/19/16	EPA 8021B	
Xylene (o)	0.770	0.0202	mg/kg dry	20	P6E2305	05/18/16	05/19/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		120 %	75-1	25	P6E2305	05/18/16	05/19/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		77.9 %	75-1	25	P6E2305	05/18/16	05/19/16	EPA 8021B	
General Chemistry Parameters by EI	PA / Standard Method	ls							
Chloride	49.4	1.01	mg/kg dry	1	P6E2311	05/23/16	05/23/16	EPA 300.0	
% Moisture	1.0	0.1	%	1	P6E1006	05/10/16	05/11/16	% calculation	
Total Petroleum Hydrocarbons C6-C.	35 by EPA Method 80	15M							
C6-C12	715	126	mg/kg dry	5	P6E1108	05/10/16	05/11/16	TPH 8015M	
>C12-C28	5010	126	mg/kg dry	5	P6E1108	05/10/16	05/11/16	TPH 8015M	
>C28-C35	440	126	mg/kg dry	5	P6E1108	05/10/16	05/11/16	TPH 8015M	
Surrogate: 1-Chlorooctane		102 %	70-1	30	P6E1108	05/10/16	05/11/16	TPH 8015M	
Surrogate: o-Terphenyl		85.6 %	70-1	30	P6E1108	05/10/16	05/11/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	6160	126	mg/kg dry	5	[CALC]	05/10/16	05/11/16	calc	

2057 Commerce StreetProject Number:TBDMidland TX, 79703Project Manager:Curt Stanley

#### Sample-1 @ 1' 6E09010-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	iian Basin E	Environmen	tal Lab, l	L <b>.P.</b>				
Organics by GC									
Benzene	ND	0.00101	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Toluene	ND	0.00202	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		120 %	75-1.	25	P6E2305	05/18/16	05/19/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		133 %	75-1.	25	P6E2305	05/18/16	05/19/16	EPA 8021B	S-GC
General Chemistry Parameters by E	PA / Standard Method	s							
Chloride	7.18	1.01	mg/kg dry	1	P6E2311	05/23/16	05/23/16	EPA 300.0	
% Moisture	1.0	0.1	%	1	P6E1006	05/10/16	05/11/16	% calculation	
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 80	15M							
C6-C12	ND	25.3	mg/kg dry	1	P6E1108	05/10/16	05/11/16	TPH 8015M	
>C12-C28	32.5	25.3	mg/kg dry	1	P6E1108	05/10/16	05/11/16	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P6E1108	05/10/16	05/11/16	TPH 8015M	
Surrogate: 1-Chlorooctane		109 %	70-1.	30	P6E1108	05/10/16	05/11/16	TPH 8015M	
Surrogate: o-Terphenyl		106 %	70-1.	30	P6E1108	05/10/16	05/11/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	32.5	25.3	mg/kg dry	1	[CALC]	05/10/16	05/11/16	calc	

2057 Commerce StreetProject Number:TBDMidland TX, 79703Project Manager:Curt Stanley

Sample-2 @ 3" 6E09010-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	Environme	ıtal Lab,	L.P.				
Organics by GC									
Benzene	ND	0.101	mg/kg dry	100	P6E2305	05/18/16	05/19/16	EPA 8021B	
Toluene	6.98	0.202	mg/kg dry	100	P6E2305	05/18/16	05/19/16	EPA 8021B	
Ethylbenzene	8.17	0.101	mg/kg dry	100	P6E2305	05/18/16	05/19/16	EPA 8021B	
Xylene (p/m)	33.7	0.202	mg/kg dry	100	P6E2305	05/18/16	05/19/16	EPA 8021B	
Xylene (o)	12.8	0.101	mg/kg dry	100	P6E2305	05/18/16	05/19/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		69.3 %	75-1	25	P6E2305	05/18/16	05/19/16	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		120 %	75-1	25	P6E2305	05/18/16	05/19/16	EPA 8021B	
General Chemistry Parameters by EPA	A / Standard Method	s							
Chloride	25.2	1.01	mg/kg dry	1	P6E2311	05/23/16	05/23/16	EPA 300.0	
% Moisture	1.0	0.1	%	1	P6E1006	05/10/16	05/11/16	% calculation	
Total Petroleum Hydrocarbons C6-C3	5 by EPA Method 80	15M							
C6-C12	2400	126	mg/kg dry	5	P6E1108	05/10/16	05/11/16	TPH 8015M	
>C12-C28	9190	126	mg/kg dry	5	P6E1108	05/10/16	05/11/16	TPH 8015M	
>C28-C35	832	126	mg/kg dry	5	P6E1108	05/10/16	05/11/16	TPH 8015M	
Surrogate: 1-Chlorooctane		100 %	70-1	30	P6E1108	05/10/16	05/11/16	TPH 8015M	
Surrogate: o-Terphenyl		109 %	70-1	30	P6E1108	05/10/16	05/11/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	12400	126	mg/kg dry	5	[CALC]	05/10/16	05/11/16	calc	

2057 Commerce StreetProject Number:TBDMidland TX, 79703Project Manager:Curt Stanley

#### Sample-3 @ 1' 6E09010-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Peri	nian Basin F	Environmen	tal Lab, l	L <b>.P.</b>				
Organics by GC									
Benzene	ND	0.00102	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Toluene	0.141	0.00204	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Ethylbenzene	0.0862	0.00102	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Xylene (p/m)	0.353	0.00204	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Xylene (o)	0.108	0.00102	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		63.1 %	75-1.	25	P6E2307	05/18/16	05/19/16	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		97.8 %	75-1.	25	P6E2307	05/18/16	05/19/16	EPA 8021B	
General Chemistry Parameters by EI	PA / Standard Method	ls							
Chloride	121	1.02	mg/kg dry	1	P6E2311	05/23/16	05/23/16	EPA 300.0	
% Moisture	2.0	0.1	%	1	P6E1006	05/10/16	05/11/16	% calculation	
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 80	15M							
C6-C12	8430	128	mg/kg dry	5	P6E1108	05/10/16	05/11/16	TPH 8015M	
>C12-C28	15000	128	mg/kg dry	5	P6E1108	05/10/16	05/11/16	TPH 8015M	
>C28-C35	1270	128	mg/kg dry	5	P6E1108	05/10/16	05/11/16	TPH 8015M	
Surrogate: 1-Chlorooctane		118 %	70-1.	30	P6E1108	05/10/16	05/11/16	TPH 8015M	
Surrogate: o-Terphenyl		118 %	70-1.	30	P6E1108	05/10/16	05/11/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	24700	128	mg/kg dry	5	[CALC]	05/10/16	05/11/16	calc	

2057 Commerce StreetProject Number:TBDMidland TX, 79703Project Manager:Curt Stanley

#### Sample-4 @ 1' 6E09010-08 (Soil)

		Reporting		D					
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	Environmer	ıtal Lab, l	L <b>.P.</b>				
Organics by GC									
Benzene	ND	0.00101	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Toluene	0.00640	0.00202	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Ethylbenzene	0.00266	0.00101	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Xylene (p/m)	0.0248	0.00202	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Xylene (o)	0.00664	0.00101	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		116 %	75-1	25	P6E2305	05/18/16	05/19/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		118 %	75-1	25	P6E2305	05/18/16	05/19/16	EPA 8021B	
General Chemistry Parameters by E	PA / Standard Method	ls							
Chloride	46.2	1.01	mg/kg dry	1	P6E2311	05/23/16	05/23/16	EPA 300.0	
% Moisture	1.0	0.1	%	1	P6E1006	05/10/16	05/11/16	% calculation	
Total Petroleum Hydrocarbons C6-C	C35 by EPA Method 80	15M							
C6-C12	ND	25.3	mg/kg dry	1	P6E1205	05/11/16	05/11/16	TPH 8015M	
>C12-C28	40.3	25.3	mg/kg dry	1	P6E1205	05/11/16	05/11/16	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P6E1205	05/11/16	05/11/16	TPH 8015M	
Surrogate: 1-Chlorooctane		84.3 %	70-1	30	P6E1205	05/11/16	05/11/16	TPH 8015M	
Surrogate: o-Terphenyl		93.2 %	70-1	30	P6E1205	05/11/16	05/11/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	40.3	25.3	mg/kg dry	1	[CALC]	05/11/16	05/11/16	calc	

2057 Commerce StreetProject Number:TBDMidland TX, 79703Project Manager:Curt Stanley

### Sample-5 @ 2.5' 6E09010-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perr	nian Basin F	Environmen	ıtal Lab, l	L <b>.P.</b>				
Organics by GC									
Benzene	ND	0.00101	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Toluene	ND	0.00202	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Ethylbenzene	0.00112	0.00101	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Xylene (p/m)	0.0103	0.00202	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Xylene (o)	0.00216	0.00101	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		119 %	75-1.	25	P6E2305	05/18/16	05/19/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		116 %	75-1.	25	P6E2305	05/18/16	05/19/16	EPA 8021B	
General Chemistry Parameters by E	PA / Standard Method	ls							
Chloride	67.8	1.01	mg/kg dry	1	P6E2311	05/23/16	05/23/16	EPA 300.0	
% Moisture	1.0	0.1	%	1	P6E1006	05/10/16	05/11/16	% calculation	
Total Petroleum Hydrocarbons C6-C	235 by EPA Method 80	15M							
C6-C12	ND	25.3	mg/kg dry	1	P6E1205	05/11/16	05/11/16	TPH 8015M	
>C12-C28	47.6	25.3	mg/kg dry	1	P6E1205	05/11/16	05/11/16	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P6E1205	05/11/16	05/11/16	TPH 8015M	
Surrogate: 1-Chlorooctane		81.3 %	70-1.	30	P6E1205	05/11/16	05/11/16	TPH 8015M	
Surrogate: o-Terphenyl		89.3 %	70-1.	30	P6E1205	05/11/16	05/11/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	47.6	25.3	mg/kg dry	1	[CALC]	05/11/16	05/11/16	calc	

2057 Commerce StreetProject Number:TBDMidland TX, 79703Project Manager:Curt Stanley

#### Sample-6 @ 1' 6E09010-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	Environmer	ıtal Lab, l	L <b>.P.</b>				
Organics by GC									
Benzene	ND	0.00101	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Toluene	ND	0.00202	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Xylene (p/m)	0.00260	0.00202	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		121 %	75-1	25	P6E2305	05/18/16	05/19/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		123 %	75-1	25	P6E2305	05/18/16	05/19/16	EPA 8021B	
<b>General Chemistry Parameters by EPA</b>	/ Standard Method	ls							
Chloride	15.1	1.01	mg/kg dry	1	P6E2311	05/23/16	05/23/16	EPA 300.0	
% Moisture	1.0	0.1	%	1	P6E1006	05/10/16	05/11/16	% calculation	
<b>Total Petroleum Hydrocarbons C6-C35</b>	by EPA Method 80	15M							
C6-C12	ND	25.3	mg/kg dry	1	P6E1205	05/11/16	05/11/16	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P6E1205	05/11/16	05/11/16	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P6E1205	05/11/16	05/11/16	TPH 8015M	
Surrogate: 1-Chlorooctane		79.5 %	70-1	30	P6E1205	05/11/16	05/11/16	TPH 8015M	
Surrogate: o-Terphenyl		91.6 %	70-1	30	P6E1205	05/11/16	05/11/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	05/11/16	05/11/16	calc	

2057 Commerce StreetProject Number:TBDMidland TX, 79703Project Manager:Curt Stanley

### Sample-7 @ 2" 6E09010-11 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin I	Environmer	ıtal Lab, l	L <b>.P.</b>				
Organics by GC									
Benzene	ND	0.00101	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Toluene	0.0206	0.00202	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Ethylbenzene	0.0298	0.00101	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Xylene (p/m)	0.139	0.00202	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Xylene (o)	0.0475	0.00101	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		114 %	75-1	25	P6E2307	05/18/16	05/19/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		72.1 %	75-1	25	P6E2307	05/18/16	05/19/16	EPA 8021B	S-GC
General Chemistry Parameters by EP.	A / Standard Method	ls							
Chloride	95.7	1.01	mg/kg dry	1	P6E2311	05/23/16	05/23/16	EPA 300.0	
% Moisture	1.0	0.1	%	1	P6E1006	05/10/16	05/11/16	% calculation	
Total Petroleum Hydrocarbons C6-C3	5 by EPA Method 80	015M							
C6-C12	1210	126	mg/kg dry	5	P6E1205	05/11/16	05/11/16	TPH 8015M	
>C12-C28	10800	126	mg/kg dry	5	P6E1205	05/11/16	05/11/16	TPH 8015M	
>C28-C35	1620	126	mg/kg dry	5	P6E1205	05/11/16	05/11/16	TPH 8015M	
Surrogate: 1-Chlorooctane		115 %	70-1	30	P6E1205	05/11/16	05/11/16	TPH 8015M	
Surrogate: o-Terphenyl		132 %	70-1	30	P6E1205	05/11/16	05/11/16	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	13600	126	mg/kg dry	5	[CALC]	05/11/16	05/11/16	calc	

2057 Commerce StreetProject Number:TBDMidland TX, 79703Project Manager:Curt Stanley

#### Sample-8 @ 1' 6E09010-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin F	Environmer	ıtal Lab, l	L <b>.P.</b>				
Organics by GC									
Benzene	ND	0.00102	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Toluene	ND	0.00204	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		123 %	75-1	25	P6E2305	05/18/16	05/19/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		121 %	75-1	25	P6E2305	05/18/16	05/19/16	EPA 8021B	
General Chemistry Parameters by E	PA / Standard Method	ls							
Chloride	47.8	1.02	mg/kg dry	1	P6E2311	05/23/16	05/23/16	EPA 300.0	
% Moisture	2.0	0.1	%	1	P6E1006	05/10/16	05/11/16	% calculation	
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 80	15M							
C6-C12	ND	25.5	mg/kg dry	1	P6E1205	05/11/16	05/11/16	TPH 8015M	
>C12-C28	88.7	25.5	mg/kg dry	1	P6E1205	05/11/16	05/11/16	TPH 8015M	
>C28-C35	43.1	25.5	mg/kg dry	1	P6E1205	05/11/16	05/11/16	TPH 8015M	
Surrogate: 1-Chlorooctane		93.9 %	70-1	30	P6E1205	05/11/16	05/11/16	TPH 8015M	
Surrogate: o-Terphenyl		106 %	70-1	30	P6E1205	05/11/16	05/11/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	132	25.5	mg/kg dry	1	[CALC]	05/11/16	05/11/16	calc	

2057 Commerce StreetProject Number:TBDMidland TX, 79703Project Manager:Curt Stanley

#### Sample-9 @ 1' 6E09010-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	nvironmen	ıtal Lab, l	<b>□.P.</b>				
Organics by GC									
Benzene	ND	0.00102	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Toluene	ND	0.00204	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		124 %	75-1	25	P6E2305	05/18/16	05/19/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		120 %	75-1	25	P6E2305	05/18/16	05/19/16	EPA 8021B	
<b>General Chemistry Parameters by EPA</b>	Standard Method	ls							
Chloride	31.2	1.02	mg/kg dry	1	P6E2311	05/23/16	05/23/16	EPA 300.0	
% Moisture	2.0	0.1	%	1	P6E1006	05/10/16	05/11/16	% calculation	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 80	15M							
C6-C12	ND	25.5	mg/kg dry	1	P6E1205	05/11/16	05/11/16	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P6E1205	05/11/16	05/11/16	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P6E1205	05/11/16	05/11/16	TPH 8015M	
Surrogate: 1-Chlorooctane		87.7 %	70-1	30	P6E1205	05/11/16	05/11/16	TPH 8015M	
Surrogate: o-Terphenyl		98.0 %	70-1	30	P6E1205	05/11/16	05/11/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	05/11/16	05/11/16	calc	

2057 Commerce StreetProject Number:TBDMidland TX, 79703Project Manager:Curt Stanley

#### Sample-10 @ 3" 6E09010-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Duomonod	Amalyzad	Method	Notes
Analyte	Result	Limit	Ullits	Dilution	Datcii	Prepared	Analyzed	Method	notes
	Pern	nian Basin E	Invironmen	tal Lab, l	L <b>.P.</b>				
Organics by GC									
Benzene	ND	0.00101	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Toluene	ND	0.00202	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Ethylbenzene	0.00265	0.00101	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Xylene (p/m)	0.0303	0.00202	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Xylene (o)	0.0120	0.00101	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		123 %	75-1.	25	P6E2305	05/18/16	05/19/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		115 %	75-1.	25	P6E2305	05/18/16	05/19/16	EPA 8021B	
General Chemistry Parameters by E	PA / Standard Method	ls							
Chloride	108	1.01	mg/kg dry	1	P6E2311	05/23/16	05/23/16	EPA 300.0	
% Moisture	1.0	0.1	%	1	P6E1006	05/10/16	05/11/16	% calculation	
Total Petroleum Hydrocarbons C6-C	C35 by EPA Method 80	15M							
C6-C12	ND	25.3	mg/kg dry	1	P6E1205	05/11/16	05/11/16	TPH 8015M	
>C12-C28	133	25.3	mg/kg dry	1	P6E1205	05/11/16	05/11/16	TPH 8015M	
>C28-C35	26.9	25.3	mg/kg dry	1	P6E1205	05/11/16	05/11/16	TPH 8015M	
Surrogate: 1-Chlorooctane		85.0 %	70-1.	30	P6E1205	05/11/16	05/11/16	TPH 8015M	
Surrogate: o-Terphenyl		93.7 %	70-1.	30	P6E1205	05/11/16	05/11/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	160	25.3	mg/kg dry	1	[CALC]	05/11/16	05/11/16	calc	

2057 Commerce StreetProject Number:TBDMidland TX, 79703Project Manager:Curt Stanley

### Sample-12 @ 2" 6E09010-15 (Soil)

Analyta	Result	Reporting Limit	Units	Dilution	Batch	Droporod	Analyzed	Method	Notes
Analyte	Result	Limit	Units	Dilution	Datcii	Prepared	Anaryzed	Method	notes
	Peri	nian Basin F	Environme	ıtal Lab, l	L <b>.P.</b>				
Organics by GC									
Benzene	ND	0.00101	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Toluene	ND	0.00202	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Ethylbenzene	0.00180	0.00101	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Xylene (p/m)	0.0264	0.00202	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Xylene (o)	0.0103	0.00101	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		131 %	75-1	25	P6E2305	05/18/16	05/19/16	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		125 %	75-1	25	P6E2305	05/18/16	05/19/16	EPA 8021B	
General Chemistry Parameters by E	PA / Standard Method	ls							
Chloride	303	1.01	mg/kg dry	1	P6E2311	05/23/16	05/23/16	EPA 300.0	
% Moisture	1.0	0.1	%	1	P6E1006	05/10/16	05/11/16	% calculation	
Total Petroleum Hydrocarbons C6-C	235 by EPA Method 80	15M							
C6-C12	59.0	25.3	mg/kg dry	1	P6E1205	05/11/16	05/11/16	TPH 8015M	
>C12-C28	1440	25.3	mg/kg dry	1	P6E1205	05/11/16	05/11/16	TPH 8015M	
>C28-C35	228	25.3	mg/kg dry	1	P6E1205	05/11/16	05/11/16	TPH 8015M	
Surrogate: 1-Chlorooctane		88.3 %	70-1	30	P6E1205	05/11/16	05/11/16	TPH 8015M	
Surrogate: o-Terphenyl		99.3 %	70-1	30	P6E1205	05/11/16	05/11/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	1730	25.3	mg/kg dry	1	[CALC]	05/11/16	05/11/16	calc	

2057 Commerce StreetProject Number:TBDMidland TX, 79703Project Manager:Curt Stanley

### Sample-13 @ 2" 6E09010-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Peri	nian Basin F	Environmer	ıtal Lab, l	L <b>.P.</b>				
Organics by GC									
Benzene	ND	0.00102	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Toluene	0.00945	0.00204	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Ethylbenzene	0.0212	0.00102	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Xylene (p/m)	0.0999	0.00204	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Xylene (o)	0.0328	0.00102	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		71.4 %	75-1	25	P6E2307	05/18/16	05/19/16	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		113 %	75-1	25	P6E2307	05/18/16	05/19/16	EPA 8021B	
General Chemistry Parameters by E	PA / Standard Method	ls							
Chloride	103	1.02	mg/kg dry	1	P6E2311	05/23/16	05/23/16	EPA 300.0	
% Moisture	2.0	0.1	%	1	P6E1006	05/10/16	05/11/16	% calculation	
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 80	)15M							
C6-C12	2430	128	mg/kg dry	5	P6E1205	05/11/16	05/11/16	TPH 8015M	
>C12-C28	12800	128	mg/kg dry	5	P6E1205	05/11/16	05/11/16	TPH 8015M	
>C28-C35	1990	128	mg/kg dry	5	P6E1205	05/11/16	05/11/16	TPH 8015M	
Surrogate: 1-Chlorooctane		113 %	70-1	30	P6E1205	05/11/16	05/11/16	TPH 8015M	
Surrogate: o-Terphenyl		114 %	70-1	30	P6E1205	05/11/16	05/11/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	17200	128	mg/kg dry	5	[CALC]	05/11/16	05/11/16	calc	

2057 Commerce StreetProject Number:TBDMidland TX, 79703Project Manager:Curt Stanley

#### Sample-14 @ 2" 6E09010-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin F	Environmen	tal Lab, l	L <b>.P.</b>				
Organics by GC									
Benzene	ND	0.00102	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Toluene	ND	0.00204	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Ethylbenzene	0.0111	0.00102	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Xylene (p/m)	0.0759	0.00204	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Xylene (o)	0.0319	0.00102	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		119 %	75-12	25	P6E2305	05/18/16	05/19/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		130 %	75-12	25	P6E2305	05/18/16	05/19/16	EPA 8021B	S-GC
General Chemistry Parameters by E	PA / Standard Method	ls							
Chloride	34.4	1.02	mg/kg dry	1	P6E2311	05/23/16	05/23/16	EPA 300.0	
% Moisture	2.0	0.1	%	1	P6E1006	05/10/16	05/11/16	% calculation	
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 80	15M							
C6-C12	59.8	25.5	mg/kg dry	1	P6E1205	05/11/16	05/11/16	TPH 8015M	
>C12-C28	796	25.5	mg/kg dry	1	P6E1205	05/11/16	05/11/16	TPH 8015M	
>C28-C35	140	25.5	mg/kg dry	1	P6E1205	05/11/16	05/11/16	TPH 8015M	
Surrogate: 1-Chlorooctane		92.7 %	70-1.	30	P6E1205	05/11/16	05/11/16	TPH 8015M	
Surrogate: o-Terphenyl		102 %	70-1.	30	P6E1205	05/11/16	05/11/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	996	25.5	mg/kg dry	1	[CALC]	05/11/16	05/11/16	calc	

2057 Commerce StreetProject Number:TBDMidland TX, 79703Project Manager:Curt Stanley

#### Sample-15 @ 4" 6E09010-18 (Soil)

Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pern	nian Basin I	Environme	ntal Lab, l	L <b>.P.</b>				
ND	0.00102	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
ND	0.00204	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
ND	0.00102	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
ND	0.00204	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
ND	0.00102	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
	126 %	75-1	25	P6E2305	05/18/16	05/19/16	EPA 8021B	S-GC
	124 %	75-1	25	P6E2305	05/18/16	05/19/16	EPA 8021B	
/ Standard Method	ls							
58.2	1.02	mg/kg dry	1	P6E2311	05/23/16	05/23/16	EPA 300.0	
2.0	0.1	%	1	P6E1006	05/10/16	05/11/16	% calculation	
by EPA Method 80	15M							
ND	25.5	mg/kg dry	1	P6E1205	05/11/16	05/11/16	TPH 8015M	
ND	25.5	mg/kg dry	1	P6E1205	05/11/16	05/11/16	TPH 8015M	
ND	25.5	mg/kg dry	1	P6E1205	05/11/16	05/11/16	TPH 8015M	
	90.4 %	70-1	30	P6E1205	05/11/16	05/11/16	TPH 8015M	
	98.8 %	70-1	30	P6E1205	05/11/16	05/11/16	TPH 8015M	
ND	25.5	mg/kg dry	1	[CALC]	05/11/16	05/11/16	calc	
	Pern ND ND ND ND ND  / Standard Method 58.2 2.0 by EPA Method 80 ND ND ND ND	ND   0.00102     ND   0.00204     ND   0.00102     ND   0.00204     ND   0.00102     ND   0.00102     ND   0.00102     126 %     124 %     Valuated Methods     S8.2   1.02     2.0   0.1     by EPA Method 8015M     ND   25.5     ND   25.5     ND   25.5     ND   25.5     90.4 %     98.8 %	ND	ND	ND	ND	Result   Limit   Units   Dilution   Batch   Prepared   Analyzed	ND

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### Sample-16 @ 1' 6E09010-19 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Peri	nian Basin E	nvironmen	tal Lab, I	P.				
Organics by GC									
Benzene	ND	0.00103	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Toluene	ND	0.00206	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		133 %	75-1.	25	P6E2305	05/18/16	05/19/16	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		124 %	75-1.	25	P6E2305	05/18/16	05/19/16	EPA 8021B	
General Chemistry Parameters by EPA / Sta	ndard Method	ls							
Chloride	11.1	1.03	mg/kg dry	1	P6E2311	05/23/16	05/23/16	EPA 300.0	
% Moisture	3.0	0.1	%	1	P6E1006	05/10/16	05/11/16	% calculation	
Total Petroleum Hydrocarbons C6-C35 by E	PA Method 80	)15M							
C6-C12	ND	25.8	mg/kg dry	1	P6E1205	05/11/16	05/11/16	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P6E1205	05/11/16	05/11/16	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P6E1205	05/11/16	05/11/16	TPH 8015M	
Surrogate: 1-Chlorooctane		90.3 %	70-1.	30	P6E1205	05/11/16	05/11/16	TPH 8015M	
Surrogate: o-Terphenyl		100 %	70-1.	30	P6E1205	05/11/16	05/11/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	05/11/16	05/11/16	calc	

2057 Commerce StreetProject Number:TBDMidland TX, 79703Project Manager:Curt Stanley

### Sample-17 @ 2'' 6E09010-20 (Soil)

		Reporting	** .	<b>5</b>	D				2.7
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin F	Environmen	tal Lab, l	L <b>.P.</b>				
Organics by GC									
Benzene	ND	0.00102	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Toluene	0.00678	0.00204	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Ethylbenzene	0.0202	0.00102	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Xylene (p/m)	0.103	0.00204	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Xylene (o)	0.0363	0.00102	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		113 %	75-12	25	P6E2307	05/18/16	05/19/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		67.1 %	75-12	25	P6E2307	05/18/16	05/19/16	EPA 8021B	S-GC
General Chemistry Parameters by E	PA / Standard Method	ls							
Chloride	90.3	1.02	mg/kg dry	1	P6E2311	05/23/16	05/23/16	EPA 300.0	
% Moisture	2.0	0.1	%	1	P6E1006	05/10/16	05/11/16	% calculation	
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 80	15M							
C6-C12	1580	128	mg/kg dry	5	P6E1205	05/11/16	05/11/16	TPH 8015M	
>C12-C28	11000	128	mg/kg dry	5	P6E1205	05/11/16	05/11/16	TPH 8015M	
>C28-C35	1720	128	mg/kg dry	5	P6E1205	05/11/16	05/11/16	TPH 8015M	
Surrogate: 1-Chlorooctane		103 %	70-1.	30	P6E1205	05/11/16	05/11/16	TPH 8015M	
Surrogate: o-Terphenyl		92.1 %	70-1.	30	P6E1205	05/11/16	05/11/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	14300	128	mg/kg dry	5	[CALC]	05/11/16	05/11/16	calc	

2057 Commerce StreetProject Number:TBDMidland TX, 79703Project Manager:Curt Stanley

Sample-21 @ 1' 6E09010-21 (Soil)

Amalyta	Result	Reporting Limit	Units	Dilution	Batch	Duomono	A malvine d	Method	Not
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	Environmen	tal Lab, l	L <b>.P.</b>				
Organics by GC									
Benzene	ND	0.00101	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Toluene	0.00296	0.00202	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Ethylbenzene	0.0167	0.00101	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Xylene (p/m)	0.0833	0.00202	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Xylene (o)	0.0261	0.00101	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		63.4 %	75-1.	25	P6E2307	05/18/16	05/19/16	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		114 %	75-1.	25	P6E2307	05/18/16	05/19/16	EPA 8021B	
General Chemistry Parameters by E	PA / Standard Method	ls							
Chloride	6.31	1.01	mg/kg dry	1	P6E2312	05/23/16	05/23/16	EPA 300.0	
% Moisture	1.0	0.1	%	1	P6E1006	05/10/16	05/11/16	% calculation	
Total Petroleum Hydrocarbons C6-C	235 by EPA Method 80	15M							
C6-C12	580	25.3	mg/kg dry	1	P6E1205	05/11/16	05/11/16	TPH 8015M	
>C12-C28	3910	25.3	mg/kg dry	1	P6E1205	05/11/16	05/11/16	TPH 8015M	
>C28-C35	554	25.3	mg/kg dry	1	P6E1205	05/11/16	05/11/16	TPH 8015M	
Surrogate: 1-Chlorooctane		111 %	70-1.	30	P6E1205	05/11/16	05/11/16	TPH 8015M	
Surrogate: o-Terphenyl		111 %	70-1.	30	P6E1205	05/11/16	05/11/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	5050	25.3	mg/kg dry	1	[CALC]	05/11/16	05/11/16	calc	

2057 Commerce StreetProject Number:TBDMidland TX, 79703Project Manager:Curt Stanley

## Sample-22 @ 2.5' 6E09010-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perr	nian Basin E	Environmer	ıtal Lab, l	L <b>.P.</b>				
Organics by GC									
Benzene	ND	0.00102	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Toluene	ND	0.00204	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Ethylbenzene	0.00567	0.00102	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Xylene (p/m)	0.0807	0.00204	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Xylene (o)	0.0238	0.00102	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		67.7 %	75-1	25	P6E2307	05/18/16	05/19/16	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		114 %	75-1	25	P6E2307	05/18/16	05/19/16	EPA 8021B	
General Chemistry Parameters by E	EPA / Standard Method	ls							
Chloride	7.50	1.02	mg/kg dry	1	P6E2312	05/23/16	05/23/16	EPA 300.0	
% Moisture	2.0	0.1	%	1	P6E1006	05/10/16	05/11/16	% calculation	
Total Petroleum Hydrocarbons C6-C	C35 by EPA Method 80	15M							
C6-C12	1190	128	mg/kg dry	5	P6E1205	05/11/16	05/11/16	TPH 8015M	
>C12-C28	6520	128	mg/kg dry	5	P6E1205	05/11/16	05/11/16	TPH 8015M	
>C28-C35	1000	128	mg/kg dry	5	P6E1205	05/11/16	05/11/16	TPH 8015M	
Surrogate: 1-Chlorooctane		120 %	70-1	30	P6E1205	05/11/16	05/11/16	TPH 8015M	
Surrogate: o-Terphenyl		119 %	70-1	30	P6E1205	05/11/16	05/11/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	8720	128	mg/kg dry	5	[CALC]	05/11/16	05/11/16	calc	

2057 Commerce StreetProject Number:TBDMidland TX, 79703Project Manager:Curt Stanley

Sample-23 @ 2.5' 6E09010-23 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perr	nian Basin F	Environme	ıtal Lab, l	L <b>.P.</b>				
Organics by GC									
Benzene	ND	0.00101	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Toluene	ND	0.00202	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Xylene (p/m)	0.0102	0.00202	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Xylene (o)	0.00227	0.00101	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		109 %	75-1	25	P6E2305	05/18/16	05/19/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		123 %	75-1	25	P6E2305	05/18/16	05/19/16	EPA 8021B	
General Chemistry Parameters by El	PA / Standard Method	ls							
Chloride	11.2	1.01	mg/kg dry	1	P6E2312	05/23/16	05/23/16	EPA 300.0	
% Moisture	1.0	0.1	%	1	P6E1006	05/10/16	05/11/16	% calculation	
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 80	15M							
C6-C12	36.3	25.3	mg/kg dry	1	P6E1205	05/11/16	05/11/16	TPH 8015M	
>C12-C28	688	25.3	mg/kg dry	1	P6E1205	05/11/16	05/11/16	TPH 8015M	
>C28-C35	118	25.3	mg/kg dry	1	P6E1205	05/11/16	05/11/16	TPH 8015M	
Surrogate: 1-Chlorooctane		95.6 %	70-1	30	P6E1205	05/11/16	05/11/16	TPH 8015M	
Surrogate: o-Terphenyl		106 %	70-1	30	P6E1205	05/11/16	05/11/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	843	25.3	mg/kg dry	1	[CALC]	05/11/16	05/11/16	calc	

2057 Commerce StreetProject Number:TBDMidland TX, 79703Project Manager:Curt Stanley

### Sample-24 @ 5' 6E09010-24 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Peri	nian Basin E	Environmen	ıtal Lab, l	L <b>.P.</b>				
Organics by GC									
Benzene	ND	0.00101	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Toluene	ND	0.00202	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Xylene (p/m)	0.00353	0.00202	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		115 %	75-1.	25	P6E2305	05/18/16	05/19/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		123 %	75-1.	25	P6E2305	05/18/16	05/19/16	EPA 8021B	
General Chemistry Parameters by E	CPA / Standard Method	ls							
Chloride	43.3	1.01	mg/kg dry	1	P6E2312	05/23/16	05/23/16	EPA 300.0	
% Moisture	1.0	0.1	%	1	P6E1006	05/10/16	05/11/16	% calculation	
Total Petroleum Hydrocarbons C6-0	C35 by EPA Method 80	15M							
C6-C12	ND	25.3	mg/kg dry	1	P6E1205	05/11/16	05/11/16	TPH 8015M	
>C12-C28	156	25.3	mg/kg dry	1	P6E1205	05/11/16	05/11/16	TPH 8015M	
>C28-C35	28.4	25.3	mg/kg dry	1	P6E1205	05/11/16	05/11/16	TPH 8015M	
Surrogate: 1-Chlorooctane		92.1 %	70-1.	30	P6E1205	05/11/16	05/11/16	TPH 8015M	
Surrogate: o-Terphenyl		103 %	70-1.	30	P6E1205	05/11/16	05/11/16	TPH 8015M	
Total Petroleum Hydrocarbon	185	25.3	mg/kg dry	1	[CALC]	05/11/16	05/11/16	calc	
C6-C35									

2057 Commerce StreetProject Number:TBDMidland TX, 79703Project Manager:Curt Stanley

Sample-25 @ 2' 6E09010-25 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perr	nian Basin F	Environme	ıtal Lab, l	L <b>.P.</b>				
Organics by GC									
Benzene	ND	0.00101	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Toluene	0.00631	0.00202	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Ethylbenzene	0.00441	0.00101	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Xylene (p/m)	0.0405	0.00202	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Xylene (o)	0.0173	0.00101	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		125 %	75-1	25	P6E2305	05/18/16	05/19/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		124 %	75-1	25	P6E2305	05/18/16	05/19/16	EPA 8021B	
General Chemistry Parameters by E	PA / Standard Method	ls							
Chloride	7.71	1.01	mg/kg dry	1	P6E2312	05/23/16	05/23/16	EPA 300.0	
% Moisture	1.0	0.1	%	1	P6E1006	05/10/16	05/11/16	% calculation	
Total Petroleum Hydrocarbons C6-C	235 by EPA Method 80	15M							
C6-C12	ND	25.3	mg/kg dry	1	P6E1205	05/11/16	05/12/16	TPH 8015M	
>C12-C28	94.5	25.3	mg/kg dry	1	P6E1205	05/11/16	05/12/16	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P6E1205	05/11/16	05/12/16	TPH 8015M	
Surrogate: 1-Chlorooctane		93.9 %	70-1	30	P6E1205	05/11/16	05/12/16	TPH 8015M	
Surrogate: o-Terphenyl		106 %	70-1	30	P6E1205	05/11/16	05/12/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	94.5	25.3	mg/kg dry	1	[CALC]	05/11/16	05/12/16	calc	

2057 Commerce StreetProject Number:TBDMidland TX, 79703Project Manager:Curt Stanley

### Sample-26 @ 2' 6E09010-26 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin F	Environmen	tal Lab, l	L <b>.P.</b>				
Organics by GC									
Benzene	ND	0.00101	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Toluene	ND	0.00202	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Xylene (p/m)	0.00322	0.00202	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P6E2305	05/18/16	05/19/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		119 %	75-1.	25	P6E2305	05/18/16	05/19/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		122 %	75-1.	25	P6E2305	05/18/16	05/19/16	EPA 8021B	
General Chemistry Parameters by E	CPA / Standard Method	ls							
Chloride	9.12	1.01	mg/kg dry	1	P6E2312	05/23/16	05/23/16	EPA 300.0	
% Moisture	1.0	0.1	%	1	P6E1006	05/10/16	05/11/16	% calculation	
Total Petroleum Hydrocarbons C6-C	C35 by EPA Method 80	15M							
C6-C12	ND	25.3	mg/kg dry	1	P6E1205	05/11/16	05/12/16	TPH 8015M	
>C12-C28	56.3	25.3	mg/kg dry	1	P6E1205	05/11/16	05/12/16	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P6E1205	05/11/16	05/12/16	TPH 8015M	
Surrogate: 1-Chlorooctane		96.0 %	70-1.	30	P6E1205	05/11/16	05/12/16	TPH 8015M	
Surrogate: o-Terphenyl		111 %	70-1.	30	P6E1205	05/11/16	05/12/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	56.3	25.3	mg/kg dry	1	[CALC]	05/11/16	05/12/16	calc	

2057 Commerce StreetProject Number:TBDMidland TX, 79703Project Manager:Curt Stanley

Sample-27 @ 3' 6E09010-27 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Allalyte	Result	Lillit	Units	Dilution	Batch	Frepared	Allalyzeu	Wethod	Notes
	Pern	nian Basin F	Environmer	ıtal Lab, l	L <b>.P.</b>				
Organics by GC									
Benzene	ND	0.00101	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Toluene	0.00354	0.00202	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Ethylbenzene	0.0137	0.00101	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Xylene (p/m)	0.0665	0.00202	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Xylene (o)	0.0207	0.00101	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		74.7 %	75-1	25	P6E2307	05/18/16	05/19/16	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		111 %	75-1	25	P6E2307	05/18/16	05/19/16	EPA 8021B	
General Chemistry Parameters by E	EPA / Standard Method	ls							
Chloride	5.26	1.01	mg/kg dry	1	P6E2312	05/23/16	05/23/16	EPA 300.0	
% Moisture	1.0	0.1	%	1	P6E1006	05/10/16	05/11/16	% calculation	
Total Petroleum Hydrocarbons C6-0	C35 by EPA Method 80	15M							
C6-C12	1160	126	mg/kg dry	5	P6E1205	05/11/16	05/12/16	TPH 8015M	
>C12-C28	6620	126	mg/kg dry	5	P6E1205	05/11/16	05/12/16	TPH 8015M	
>C28-C35	984	126	mg/kg dry	5	P6E1205	05/11/16	05/12/16	TPH 8015M	
Surrogate: 1-Chlorooctane		120 %	70-1	30	P6E1205	05/11/16	05/12/16	TPH 8015M	
Surrogate: o-Terphenyl		124 %	70-1	30	P6E1205	05/11/16	05/12/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	8760	126	mg/kg dry	5	[CALC]	05/11/16	05/12/16	calc	

2057 Commerce StreetProject Number:TBDMidland TX, 79703Project Manager:Curt Stanley

### Sample-28 @ 3' 6E09010-28 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin F	Environmen	tal Lab, l	L <b>.P.</b>				
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Ethylbenzene	0.00447	0.00100	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Xylene (p/m)	0.0287	0.00200	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Xylene (o)	0.0113	0.00100	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		117 %	75-1.	25	P6E2307	05/18/16	05/19/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		101 %	75-1.	25	P6E2307	05/18/16	05/19/16	EPA 8021B	
General Chemistry Parameters by E	PA / Standard Method	ls							
Chloride	4.58	1.00	mg/kg dry	1	P6E2312	05/23/16	05/23/16	EPA 300.0	
% Moisture	ND	0.1	%	1	P6E1006	05/10/16	05/11/16	% calculation	
Total Petroleum Hydrocarbons C6-C	C35 by EPA Method 80	15M							
C6-C12	163	25.0	mg/kg dry	1	P6E1206	05/11/16	05/11/16	TPH 8015M	
>C12-C28	1030	25.0	mg/kg dry	1	P6E1206	05/11/16	05/11/16	TPH 8015M	
>C28-C35	80.1	25.0	mg/kg dry	1	P6E1206	05/11/16	05/11/16	TPH 8015M	
Surrogate: 1-Chlorooctane		112 %	70-1.	30	P6E1206	05/11/16	05/11/16	TPH 8015M	
Surrogate: o-Terphenyl		102 %	70-1.	30	P6E1206	05/11/16	05/11/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	1280	25.0	mg/kg dry	1	[CALC]	05/11/16	05/11/16	calc	

Project: Cotton Draw Station

2057 Commerce Street Midland TX, 79703 Project Number: TBD Project Manager: Curt Stanley Fax: (432) 520-7701

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Blank (P6E2305-BLK1)				Prepared: 0	05/18/16 Ar	nalyzed: 05	5/19/16			
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.0585		"	0.0500		117	75-125			
Surrogate: 4-Bromofluorobenzene	0.0642		"	0.0500		128	75-125			S-GC
LCS (P6E2305-BS1)				Prepared &	Analyzed:	05/18/16				
Benzene	0.0984	0.00100	mg/kg wet	0.100		98.4	70-130			
Toluene	0.102	0.00200	"	0.100		102	70-130			
Ethylbenzene	0.113	0.00100	"	0.100		113	70-130			
Xylene (p/m)	0.213	0.00200	"	0.200		106	70-130			
Xylene (o)	0.110	0.00100	"	0.100		110	70-130			
Surrogate: 4-Bromofluorobenzene	0.0623		"	0.0500		125	75-125			
Surrogate: 1,4-Difluorobenzene	0.0606		"	0.0500		121	75-125			
LCS Dup (P6E2305-BSD1)				Prepared: 0	05/18/16 Ar	nalyzed: 05	5/19/16			
Benzene	0.0980	0.00100	mg/kg wet	0.100		98.0	70-130	0.326	20	
Toluene	0.103	0.00200	"	0.100		103	70-130	1.02	20	
Ethylbenzene	0.114	0.00100	"	0.100		114	70-130	1.05	20	
Xylene (p/m)	0.215	0.00200	"	0.200		107	70-130	0.884	20	
Xylene (o)	0.111	0.00100	"	0.100		111	70-130	0.632	20	
Surrogate: 1,4-Difluorobenzene	0.0610		"	0.0500		122	75-125			
Surrogate: 4-Bromofluorobenzene	0.0626		"	0.0500		125	75-125			
Matrix Spike (P6E2305-MS1)	Sour	ce: 6E09010	-02	Prepared: 0	05/18/16 Ar	nalyzed: 05	5/19/16			
Benzene	0.0608	0.00103	mg/kg dry	0.103	ND	58.9	80-120			QM-07
Toluene	0.0649	0.00206	"	0.103	ND	63.0	80-120			QM-07
Ethylbenzene	0.0735	0.00103	"	0.103	ND	71.3	80-120			QM-07
Xylene (p/m)	0.134	0.00206	"	0.206	0.00106	64.3	80-120			QM-07
Xylene (o)	0.0707	0.00103	"	0.103	ND	68.6	80-120			QM-07
Surrogate: 1,4-Difluorobenzene	0.0660		"	0.0515		128	75-125			S-GC
Surrogate: 4-Bromofluorobenzene	0.0578		"	0.0515		112	75-125			

DRAFT REPORT

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

Project: Cotton Draw Station

2057 Commerce Street Midland TX, 79703 Project Number: TBD Project Manager: Curt Stanley

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6E2305 - General Preparation (GC)										
Matrix Spike Dup (P6E2305-MSD1)	Sou	ırce: 6E09010	-02	Prepared: (	05/18/16 Aı	nalyzed: 05	/19/16			
Benzene	0.0708	0.00103	mg/kg dry	0.103	ND	68.6	80-120	15.2	20	QM-07
Toluene	0.0770	0.00206	"	0.103	ND	74.7	80-120	17.1	20	QM-07
Ethylbenzene	0.0781	0.00103	"	0.103	ND	75.8	80-120	6.06	20	QM-0'
Xylene (p/m)	0.151	0.00206	"	0.206	0.00106	72.9	80-120	12.6	20	QM-0'
Xylene (o)	0.0817	0.00103	"	0.103	ND	79.2	80-120	14.4	20	QM-0'
Surrogate: 4-Bromofluorobenzene	0.0619		"	0.0515		120	75-125			
Surrogate: 1,4-Difluorobenzene	0.0651		"	0.0515		126	75-125			S-GO
Batch P6E2307 - General Preparation (GC)										
Blank (P6E2307-BLK1)				Prepared: (	05/18/16 At	nalyzed: 05	/19/16			
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.0578		"	0.0500		116	75-125			
Surrogate: 4-Bromofluorobenzene	0.0660		"	0.0500		132	75-125			S-G
LCS (P6E2307-BS1)				Prepared: (	05/18/16 At	nalyzed: 05	/19/16			
Benzene	0.0948	0.00100	mg/kg wet	0.100		94.8	70-130			
Toluene	0.0957	0.00200	"	0.100		95.7	70-130			
Ethylbenzene	0.109	0.00100	"	0.100		109	70-130			
Xylene (p/m)	0.202	0.00200	"	0.200		101	70-130			
Xylene (o)	0.101	0.00100	"	0.100		101	70-130			
Surrogate: 1,4-Difluorobenzene	0.0595		"	0.0500		119	75-125			
Surrogate: 4-Bromofluorobenzene	0.0629		"	0.0500		126	75-125			S-GC

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Project: Cotton Draw Station

2057 Commerce Street Midland TX, 79703 Project Number: TBD Project Manager: Curt Stanley Fax: (432) 520-7701

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

Austral	D14	Reporting Limit	T.T 14	Spike	Source	%REC	%REC Limits	DDD	RPD Limit	Natas
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P6E2307 - General Preparation (GC	C)									
LCS Dup (P6E2307-BSD1)				Prepared: (	05/18/16 A	nalyzed: 05	/19/16			
Benzene	0.0905	0.00100	mg/kg wet	0.100		90.5	70-130	4.65	20	
Toluene	0.0940	0.00200	"	0.100		94.0	70-130	1.88	20	
Ethylbenzene	0.106	0.00100	"	0.100		106	70-130	2.99	20	
Xylene (p/m)	0.198	0.00200	"	0.200		98.8	70-130	2.37	20	
Xylene (o)	0.0985	0.00100	"	0.100		98.5	70-130	2.95	20	
Surrogate: 4-Bromofluorobenzene	0.0650		"	0.0500		130	75-125			S-GC
Surrogate: 1,4-Difluorobenzene	0.0605		"	0.0500		121	75-125			

TRC Solutions- Midland, Texas Project: Cotton Draw Station

2057 Commerce StreetProject Number: TBDMidland TX, 79703Project Manager: Curt Stanley

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6E1006 - *** DEFAULT PREP ***										
Blank (P6E1006-BLK1)				Prepared: (	05/10/16 Ai	nalyzed: 05	/11/16			
% Moisture	ND	0.1	%	*		•				
Blank (P6E1006-BLK2)				Prepared: (	05/10/16 Ai	nalyzed: 05	/11/16			
% Moisture	ND	0.1	%							
Duplicate (P6E1006-DUP1)	Sour	ce: 6E09010-	01	Prepared: (	05/10/16 A	nalyzed: 05	/11/16			
% Moisture	2.0	0.1	%		2.0	-		0.00	20	
Duplicate (P6E1006-DUP2)	Sour	ce: 6E09010-	05	Prepared: (	05/10/16 Ai	nalyzed: 05	/11/16			
% Moisture	2.0	0.1	%	-	1.0	-		66.7	20	
Duplicate (P6E1006-DUP3)	Sour	ce: 6E09010-	06	Prepared: (	05/10/16 Ai	nalyzed: 05	/11/16			
% Moisture	1.0	0.1	%		1.0			0.00	20	
Duplicate (P6E1006-DUP4)	Sour	ce: 6E09010-	25	Prepared: (	05/10/16 A	nalyzed: 05	/11/16			
% Moisture	ND	0.1	%		1.0			200	20	
Duplicate (P6E1006-DUP5)	Sour	ce: 6E09011-	01	Prepared: (	05/10/16 A	nalyzed: 05	/11/16			
% Moisture	1.0	0.1	%		1.0	-		0.00	20	
Batch P6E2311 - *** DEFAULT PREP ***										
Blank (P6E2311-BLK1)				Prepared &	: Analyzed:	05/23/16				
Chloride	ND	1.00	mg/kg wet	*	<u> </u>					
LCS (P6E2311-BS1)				Prepared &	: Analyzed:	05/23/16				
Chloride	175	1.00	mg/kg wet	200	•	87.5	80-120			

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TRC Solutions- Midland, Texas Project: Cotton Draw Station

2057 Commerce Street Midland TX, 79703 Project Number: TBD
Project Manager: Curt Stanley

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

	D 1.	Reporting	** **	Spike	Source	N/BEG	%REC	DDD	RPD	3.7 .
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P6E2311 - *** DEFAULT PREP ***										
LCS Dup (P6E2311-BSD1)				Prepared &	Analyzed:	05/23/16				
Chloride	178	1.00	mg/kg wet	200		88.8	80-120	1.49	20	
Duplicate (P6E2311-DUP1)	Sou	rce: 6E09010	-01	Prepared &	Analyzed:	05/23/16				
Chloride	124	1.02	mg/kg dry		123			0.940	20	
Duplicate (P6E2311-DUP2)	Sou	rce: 6E09010	-11	Prepared &	Analyzed:	05/23/16				
Chloride	96.9	1.01	mg/kg dry		95.7			1.26	20	
Matrix Spike (P6E2311-MS1)	Sou	rce: 6E09010	-01	Prepared &	a Analyzed:	05/23/16				
Chloride	258	1.02	mg/kg dry	153	123	87.7	80-120			
Batch P6E2312 - *** DEFAULT PREP ***										
Blank (P6E2312-BLK1)				Prepared &	Analyzed:	05/23/16				
Chloride	ND	1.00	mg/kg wet		-					
LCS (P6E2312-BS1)				Prepared &	z Analyzed:	05/23/16				
Chloride	178	1.00	mg/kg wet	200	-	89.0	80-120			
LCS Dup (P6E2312-BSD1)				Prepared &	Analyzed:	05/23/16				
Chloride	177	1.00	mg/kg wet	200		88.5	80-120	0.620	20	
Duplicate (P6E2312-DUP1)	Sou	rce: 6E09010	-21	Prepared &	. Analyzed:	05/23/16				
Chloride	6.38	1.01	mg/kg dry		6.31			1.11	20	
Duplicate (P6E2312-DUP2)	Sou	rce: 6E16001	-02	Prepared &	t Analyzed:	05/23/16				
Chloride	30.9	1.04	mg/kg dry	-	27.2			12.8	20	

2057 Commerce StreetProject Number:TBDMidland TX, 79703Project Manager:Curt Stanley

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch P6E2312 - \*\*\* DEFAULT PREP \*\*\*

Matrix Spike (P6E2312-MS1)	Source: 0	6E09010-21	Prepared &	Analyzed:	05/23/16	
Chloride	164	1.01 mg/kg dry	152	6.31	104	80-120

TRC Solutions- Midland, Texas Project: Cotton Draw Station

2057 Commerce StreetProject Number: TBDMidland TX, 79703Project Manager: Curt Stanley

Fax: (432) 520-7701

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P6E1108 - TX 1005										
Blank (P6E1108-BLK1)	Prepared: 05/10/16 Analyzed: 05/11/16									
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	94.7		"	100		94.7	70-130			
Surrogate: o-Terphenyl	46.2		"	50.0		92.4	70-130			
LCS (P6E1108-BS1)	Prepared: 05/10/16 Analyzed: 05/11/16									
C6-C12	902	25.0	mg/kg wet	1000		90.2	75-125			
>C12-C28	987	25.0	"	1000		98.7	75-125			
Surrogate: 1-Chlorooctane	100		"	100		100	70-130			
Surrogate: o-Terphenyl	45.6		"	50.0		91.2	70-130			
LCS Dup (P6E1108-BSD1)	Prepared: 05/10/16 Analyzed: 05/11/16									
C6-C12	914	25.0	mg/kg wet	1000		91.4	75-125	1.30	20	
>C12-C28	997	25.0	"	1000		99.7	75-125	0.939	20	
Surrogate: 1-Chlorooctane	101		"	100		101	70-130			
Surrogate: o-Terphenyl	45.0		"	50.0		89.9	70-130			
Matrix Spike (P6E1108-MS1)	Source: 6E09002-02			Prepared: 05/10/16 Analyzed: 05/11/16						
C6-C12	975	27.5	mg/kg dry	1100	22.5	86.7	75-125			
>C12-C28	1130	27.5	"	1100	34.2	99.5	75-125			
Surrogate: 1-Chlorooctane	116		"	110		106	70-130			
Surrogate: o-Terphenyl	52.0		"	54.9		94.6	70-130			
Matrix Spike Dup (P6E1108-MSD1)	Source: 6E09002-02			Prepared: 05/10/16 Analyzed: 05/11/16						
C6-C12	1020	27.5	mg/kg dry	1100	22.5	90.7	75-125	4.48	20	
>C12-C28	1160	27.5	"	1100	34.2	102	75-125	2.55	20	
Surrogate: 1-Chlorooctane	121		"	110		110	70-130			
				110						

2057 Commerce Street Project Number: TBD
Midland TX, 79703 Project Manager: Curt Stanley

Fax: (432) 520-7701

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P6E1205 - TX 1005										
Blank (P6E1205-BLK1)				Prepared &	Analyzed:	05/11/16				
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	79.4		"	100		79.4	70-130			
Surrogate: o-Terphenyl	44.1		"	50.0		88.3	70-130			
LCS (P6E1205-BS1)				Prepared &	z Analyzed:	05/11/16				
C6-C12	800	25.0	mg/kg wet	1000		80.0	75-125			
>C12-C28	947	25.0	"	1000		94.7	75-125			
Surrogate: 1-Chlorooctane	103		"	100		103	70-130			
Surrogate: o-Terphenyl	41.6		"	50.0		83.2	70-130			
LCS Dup (P6E1205-BSD1)				Prepared &	Analyzed:	05/11/16				
C6-C12	825	25.0	mg/kg wet	1000		82.5	75-125	3.08	20	
>C12-C28	1050	25.0	"	1000		105	75-125	10.7	20	
Surrogate: 1-Chlorooctane	114		"	100		114	70-130			
Surrogate: o-Terphenyl	52.5		"	50.0		105	70-130			
Matrix Spike (P6E1205-MS1)	Sou	rce: 6E09010	-15	Prepared: (	)5/11/16 Aı	nalyzed: 05	/12/16			
C6-C12	931	25.3	mg/kg dry	1010	59.0	86.3	75-125			
>C12-C28	2400	25.3	"	1010	1440	94.9	75-125			
Surrogate: 1-Chlorooctane	130		"	101		129	70-130			
Surrogate: o-Terphenyl	54.0		"	50.5		107	70-130			
Matrix Spike Dup (P6E1205-MSD1)	Sou	rce: 6E09010	-15	Prepared: (	)5/11/16 Aı	nalyzed: 05	/12/16			
C6-C12	936	25.3	mg/kg dry	1010	59.0	86.8	75-125	0.573	20	
>C12-C28	2250	25.3	"	1010	1440	80.4	75-125	16.6	20	
Surrogate: 1-Chlorooctane	131		"	101		130	70-130			
Surrogate: o-Terphenyl	54.1		"	50.5		107	70-130			

2057 Commerce StreetProject Number:TBDMidland TX, 79703Project Manager:Curt Stanley

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

					_					
Analyta	Dogult	Reporting Limit	Lluita	Spike	Source	0/DEC	%REC	DDD	RPD	Note-
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P6E1206 - TX 1005										
Blank (P6E1206-BLK1)				Prepared &	Analyzed:	05/11/16				
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	91.0		"	100		91.0	70-130			
Surrogate: o-Terphenyl	44.2		"	50.0		88.5	70-130			
LCS (P6E1206-BS1)				Prepared &	Analyzed:	05/11/16				
C6-C12	855	25.0	mg/kg wet	1000		85.5	75-125			
>C12-C28	967	25.0	"	1000		96.7	75-125			
Surrogate: 1-Chlorooctane	95.1		"	100		95.1	70-130			
Surrogate: o-Terphenyl	39.5		"	50.0		79.1	70-130			
LCS Dup (P6E1206-BSD1)				Prepared &	Analyzed:	05/11/16				
C6-C12	916	25.0	mg/kg wet	1000		91.6	75-125	6.87	20	
>C12-C28	1040	25.0	"	1000		104	75-125	7.48	20	
Surrogate: 1-Chlorooctane	102		"	100		102	70-130			
Surrogate: o-Terphenyl	42.4		"	50.0		84.7	70-130			
Matrix Spike (P6E1206-MS1)	Sou	rce: 6E09012	2-02	Prepared: (	)5/11/16 Aı	nalyzed: 05	/12/16			
C6-C12	1010	26.3	mg/kg dry	1050	22.7	93.6	75-125			
>C12-C28	1160	26.3	"	1050	114	99.7	75-125			
Surrogate: 1-Chlorooctane	118		"	105		112	70-130			
Surrogate: o-Terphenyl	49.3		"	52.6		93.6	70-130			
Matrix Spike Dup (P6E1206-MSD1)	Sour	rce: 6E09012	2-02	Prepared: (	)5/11/16 Aı	nalyzed: 05	/12/16			
C6-C12	1030	26.3	mg/kg dry	1050	22.7	95.6	75-125	2.14	20	
>C12-C28	1170	26.3	"	1050	114	101	75-125	0.797	20	
Surrogate: 1-Chlorooctane	121		"	105		115	70-130			
Surrogate: o-Terphenyl	51.3		"	52.6		97.5	70-130			
Surrogate: o-Terphenyl			"							

2057 Commerce Street Project Number: TBD
Midland TX, 79703 Project Manager: Curt Stanley

**Notes and Definitions** 

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

	Drew	Darron			
Report Approved By:			Date:	5/24/2016	

Brent Barron, Laboratory Director/Technical Director

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

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



# CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST Permian Basin Environmental Lab, LP

Page 1 of 3

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TCLP Benzene  RUSH TAT (Pre-Schedule) 2  Standard TAT	Paint Filter	Chlorides E 300	N.O.R.M.	RCI	Semivolatiles BTEX 8021B/5030 or BTEX 8	Volatiles	Metals: As Ag Ba Cd Cr Pb He	SAR / ESP / CEC	Anions (CI, SO4, Alkalinity)	Cations (Ca, Mg, Na, K)	TPH: TX 1005 TX 1006	TPH: 418. 8015M. 8	NP=Non-Potable Specify Other	GW = Groundwater S=Soil/Solid	DW=Drinking Water SL=Sludge	Other ( Specify)	None	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	NaOH	H₂SO₄	HCI	HNO <sub>3</sub>	Ice	Total #. of Containers	Field Filtered	Time Sampled		Date Sampled	Ending Depth	Beginning Depth		FIELD CODE	FIELD			LAB # (lab use only)	Carlo Ca
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Page 42 of 43

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



## Analytical Report

### **Prepared for:**

Curt Stanley
TRC Solutions- Midland, Texas
2057 Commerce Street
Midland, TX 79703

Project: Cotton Draw Station
Project Number: SRS# 2016 057
Location: Lea County, New Mexico

Lab Order Number: 6E18003



NELAP/TCEQ # T104704156-13-3

Report Date: 06/02/16

TRC Solutions- Midland, Texas 2057 Commerce Street

Midland TX, 79703

Project Number: Cotton Draw Station
Project Number: SRS# 2016 057
Project Manager: Curt Stanley

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Sample-2A @ 5'	6E18003-01	Soil	05/17/16 13:00	05-18-2016 08:47
Sample-11 @ 2'	6E18003-02	Soil	05/17/16 13:05	05-18-2016 08:47
Sample-13A @ 1.5'	6E18003-03	Soil	05/17/16 13:10	05-18-2016 08:47
Sample-17A @ 1'	6E18003-04	Soil	05/17/16 13:15	05-18-2016 08:47
Sample-18 @ 1.5'	6E18003-05	Soil	05/17/16 13:20	05-18-2016 08:47
Sample-19 @ 1'	6E18003-06	Soil	05/17/16 13:25	05-18-2016 08:47
Sample-20 @ 6"	6E18003-07	Soil	05/17/16 13:30	05-18-2016 08:47
Sample-22A @ 3'	6E18003-08	Soil	05/17/16 13:35	05-18-2016 08:47
Sample-27A @ 3.5'	6E18003-09	Soil	05/17/16 13:40	05-18-2016 08:47
Sample-29 @ 3"	6E18003-10	Soil	05/17/16 13:45	05-18-2016 08:47
Sample-30 @ 3"	6E18003-11	Soil	05/17/16 13:50	05-18-2016 08:47
Sample-31 @ 1'	6E18003-12	Soil	05/17/16 13:55	05-18-2016 08:47
Sample-32 @ 1'	6E18003-13	Soil	05/17/16 14:00	05-18-2016 08:47

2057 Commerce Street Midland TX, 79703 Project: Cotton Draw Station

Project Number: SRS# 2016 057 Project Manager: Curt Stanley

## Sample-2A @ 5' 6E18003-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	mian Basin E	nvironmen	ıtal Lab, l	L <b>.P.</b>				
Organics by GC									
Benzene	0.0183	0.00102	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Toluene	0.335	0.00204	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Ethylbenzene	0.0952	0.00102	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Xylene (p/m)	0.386	0.00204	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Xylene (o)	0.117	0.00102	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		98.6 %	75-1.	25	P6E2307	05/18/16	05/19/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		108 %	75-1.	25	P6E2307	05/18/16	05/19/16	EPA 8021B	
General Chemistry Parameters by EF	'A / Standard Method	ls							
Chloride	14.7	1.02	mg/kg dry	1	P6E2313	05/23/16	05/23/16	EPA 300.0	
% Moisture	2.0	0.1	%	1	P6E2002	05/20/16	05/20/16	% calculation	
Total Petroleum Hydrocarbons C6-C3	35 by EPA Method 80	15M							
C6-C12	27.5	25.5	mg/kg dry	1	P6E2001	05/19/16	05/19/16	TPH 8015M	
>C12-C28	988	25.5	mg/kg dry	1	P6E2001	05/19/16	05/19/16	TPH 8015M	
>C28-C35	116	25.5	mg/kg dry	1	P6E2001	05/19/16	05/19/16	TPH 8015M	
Surrogate: 1-Chlorooctane		70.4 %	70-1.	30	P6E2001	05/19/16	05/19/16	TPH 8015M	
Surrogate: o-Terphenyl		94.8 %	70-1.	30	P6E2001	05/19/16	05/19/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	1130	25.5	mg/kg dry	1	[CALC]	05/19/16	05/19/16	calc	

Project: Cotton Draw Station Project Number: SRS# 2016 057

2057 Commerce StreetProject Number:SRS# 2016 CMidland TX, 79703Project Manager:Curt Stanley

# Sample-11 @ 2' 6E18003-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	Environmer	ıtal Lab, l	L <b>.P.</b>				
Organics by GC									
Benzene	ND	0.00104	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Toluene	0.0134	0.00208	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Ethylbenzene	0.00717	0.00104	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Xylene (p/m)	0.0436	0.00208	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Xylene (o)	0.0209	0.00104	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		116 %	75-1	25	P6E2307	05/18/16	05/19/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		128 %	75-1	25	P6E2307	05/18/16	05/19/16	EPA 8021B	S-GC
<b>General Chemistry Parameters by EPA</b>	/ Standard Method	ls							
Chloride	6.25	1.04	mg/kg dry	1	P6E2313	05/23/16	05/23/16	EPA 300.0	
% Moisture	4.0	0.1	%	1	P6E2002	05/20/16	05/20/16	% calculation	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 80	15M							
C6-C12	ND	26.0	mg/kg dry	1	P6E2001	05/19/16	05/19/16	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P6E2001	05/19/16	05/19/16	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P6E2001	05/19/16	05/19/16	TPH 8015M	
Surrogate: 1-Chlorooctane		80.4 %	70-1	30	P6E2001	05/19/16	05/19/16	TPH 8015M	
Surrogate: o-Terphenyl		89.5 %	70-1	30	P6E2001	05/19/16	05/19/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	05/19/16	05/19/16	calc	

2057 Commerce Street Midland TX, 79703 Project Number: SRS# 2016 057
Project Manager: Curt Stanley

Sample-13A @ 1.5' 6E18003-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perr	nian Basin F	Environme	ıtal Lab, l	L <b>.P.</b>				
Organics by GC									
Benzene	ND	0.00102	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Toluene	ND	0.00204	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		119 %	75-1	25	P6E2307	05/18/16	05/19/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		133 %	75-1	25	P6E2307	05/18/16	05/19/16	EPA 8021B	S-GC
General Chemistry Parameters by EPA / S	Standard Method	ls							
Chloride	10.9	1.02	mg/kg dry	1	P6E2313	05/23/16	05/23/16	EPA 300.0	
% Moisture	2.0	0.1	%	1	P6E2002	05/20/16	05/20/16	% calculation	
Total Petroleum Hydrocarbons C6-C35 by	EPA Method 80	15M							
C6-C12	ND	25.5	mg/kg dry	1	P6E2001	05/19/16	05/19/16	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P6E2001	05/19/16	05/19/16	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P6E2001	05/19/16	05/19/16	TPH 8015M	
Surrogate: 1-Chlorooctane		71.9 %	70-1	30	P6E2001	05/19/16	05/19/16	TPH 8015M	
Surrogate: o-Terphenyl		82.6 %	70-1	30	P6E2001	05/19/16	05/19/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	05/19/16	05/19/16	calc	

TRC Solutions- Midland, Texas Project: Cott

2057 Commerce Street Midland TX, 79703 Project: Cotton Draw Station
Project Number: SRS# 2016 057

Fax: (432) 520-7701

# Sample-17A @ 1' 6E18003-04 (Soil)

Project Manager: Curt Stanley

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	nian Basin E	nvironmer	ıtal Lab, l	L <b>.P.</b>				
Organics by GC									
Benzene	0.0514	0.0204	mg/kg dry	20	P6E2604	05/25/16	05/25/16	EPA 8021B	
Toluene	1.31	0.0408	mg/kg dry	20	P6E2604	05/25/16	05/25/16	EPA 8021B	
Ethylbenzene	0.677	0.0204	mg/kg dry	20	P6E2604	05/25/16	05/25/16	EPA 8021B	
Xylene (p/m)	2.92	0.0408	mg/kg dry	20	P6E2604	05/25/16	05/25/16	EPA 8021B	
Xylene (o)	0.982	0.0204	mg/kg dry	20	P6E2604	05/25/16	05/25/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		120 %	75-1	25	P6E2604	05/25/16	05/25/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.6 %	75-1	25	P6E2604	05/25/16	05/25/16	EPA 8021B	
General Chemistry Parameters by E.	PA / Standard Method 44.9	1.02	mg/kg dry	1	P6E2313	05/23/16	05/23/16	EPA 300.0	
% Moisture	2.0	0.1	%	1	P6E2002	05/20/16	05/20/16	% calculation	
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 80	15M							
C6-C12	364	25.5	mg/kg dry	1	P6E2001	05/19/16	05/20/16	TPH 8015M	
>C12-C28	3160	25.5	mg/kg dry	1	P6E2001	05/19/16	05/20/16	TPH 8015M	
>C28-C35	326	25.5	mg/kg dry	1	P6E2001	05/19/16	05/20/16	TPH 8015M	
Surrogate: 1-Chlorooctane		82.8 %	70-1	30	P6E2001	05/19/16	05/20/16	TPH 8015M	
Surrogate: o-Terphenyl		90.7 %	70-1	30	P6E2001	05/19/16	05/20/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	3850	25.5	mg/kg dry	1	[CALC]	05/19/16	05/20/16	calc	

Project: Cotton Draw Station

2057 Commerce Street Midland TX, 79703 Project Number: SRS# 2016 057 Project Manager: Curt Stanley Fax: (432) 520-7701

# Sample-18 @ 1.5' 6E18003-05 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
	Perm	iian Basin E	Environme	ıtal Lab, l	L <b>.P.</b>				
Organics by GC									
Benzene	3.42	0.0526	mg/kg dry	50	P6E2604	05/25/16	05/26/16	EPA 8021B	
Toluene	23.5	0.105	mg/kg dry	50	P6E2604	05/25/16	05/26/16	EPA 8021B	
Ethylbenzene	11.0	0.0526	mg/kg dry	50	P6E2604	05/25/16	05/26/16	EPA 8021B	
Xylene (p/m)	35.6	0.105	mg/kg dry	50	P6E2604	05/25/16	05/26/16	EPA 8021B	
Xylene (o)	14.2	0.0526	mg/kg dry	50	P6E2604	05/25/16	05/26/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		83.5 %	75-1	25	P6E2604	05/25/16	05/26/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		78.7 %	75-1	25	P6E2604	05/25/16	05/26/16	EPA 8021B	
General Chemistry Parameters by EP.	A / Standard Method	s							
Chloride	43.3	1.05	mg/kg dry	1	P6E2313	05/23/16	05/23/16	EPA 300.0	
% Moisture	5.0	0.1	%	1	P6E2002	05/20/16	05/20/16	% calculation	
Total Petroleum Hydrocarbons C6-C3	5 by EPA Method 80	15M							
C6-C12	7400	263	mg/kg dry	10	P6E2001	05/19/16	05/20/16	TPH 8015M	
>C12-C28	11300	263	mg/kg dry	10	P6E2001	05/19/16	05/20/16	TPH 8015M	
>C28-C35	1410	263	mg/kg dry	10	P6E2001	05/19/16	05/20/16	TPH 8015M	
Surrogate: 1-Chlorooctane		126 %	70-1	30	P6E2001	05/19/16	05/20/16	TPH 8015M	
Surrogate: o-Terphenyl		80.8 %	70-1	30	P6E2001	05/19/16	05/20/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	20100	263	mg/kg dry	10	[CALC]	05/19/16	05/20/16	calc	

2057 Commerce Street Midland TX, 79703 Project Number: SRS# 2016 057
Project Manager: Curt Stanley

Sample-19 @ 1' 6E18003-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin I	Environme	ntal Lab, l	L <b>.P.</b>				
Organics by GC									
Benzene	ND	0.00102	mg/kg dry	1	P6E2604	05/25/16	05/25/16	EPA 8021B	
Toluene	ND	0.00204	mg/kg dry	1	P6E2604	05/25/16	05/25/16	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P6E2604	05/25/16	05/25/16	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P6E2604	05/25/16	05/25/16	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P6E2604	05/25/16	05/25/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		122 %	75-1	25	P6E2604	05/25/16	05/25/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		123 %	75-1	25	P6E2604	05/25/16	05/25/16	EPA 8021B	
General Chemistry Parameters by EPA	Standard Method	ls							
Chloride	16.0	1.02	mg/kg dry	1	P6E2313	05/23/16	05/23/16	EPA 300.0	
% Moisture	2.0	0.1	%	1	P6E2002	05/20/16	05/20/16	% calculation	
Total Petroleum Hydrocarbons C6-C35 h	oy EPA Method 80	15M							
C6-C12	ND	25.5	mg/kg dry	1	P6E2001	05/19/16	05/20/16	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P6E2001	05/19/16	05/20/16	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P6E2001	05/19/16	05/20/16	TPH 8015M	
Surrogate: 1-Chlorooctane		74.2 %	70-1	30	P6E2001	05/19/16	05/20/16	TPH 8015M	
Surrogate: o-Terphenyl		88.3 %	70-1	30	P6E2001	05/19/16	05/20/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	05/19/16	05/20/16	calc	

Project: Cotton Draw Station

2057 Commerce Street Midland TX, 79703 Project Number: SRS# 2016 057 Project Manager: Curt Stanley

> Sample-20 @ 6" 6E18003-07 (Soil)

Andre	D l4	Reporting Limit	Units	Dilution	Batch	D J	A l J	Made d	Nister
Analyte	Result	Limit	Units	Dilution	Ваксп	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	Environmer	ıtal Lab, l	L <b>.P.</b>				
Organics by GC									
Benzene	0.0215	0.0211	mg/kg dry	20	P6E2604	05/25/16	05/25/16	EPA 8021B	
Toluene	0.327	0.0421	mg/kg dry	20	P6E2604	05/25/16	05/25/16	EPA 8021B	
Ethylbenzene	0.259	0.0211	mg/kg dry	20	P6E2604	05/25/16	05/25/16	EPA 8021B	
Xylene (p/m)	1.36	0.0421	mg/kg dry	20	P6E2604	05/25/16	05/25/16	EPA 8021B	
Xylene (o)	0.357	0.0211	mg/kg dry	20	P6E2604	05/25/16	05/25/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		90.1 %	75-1	25	P6E2604	05/25/16	05/25/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		112 %	75-1	25	P6E2604	05/25/16	05/25/16	EPA 8021B	
General Chemistry Parameters by EF	A / Standard Method	ls							
Chloride	62.3	1.05	mg/kg dry	1	P6E2314	05/23/16	05/23/16	EPA 300.0	
% Moisture	5.0	0.1	%	1	P6E2002	05/20/16	05/20/16	% calculation	
Total Petroleum Hydrocarbons C6-C3	35 by EPA Method 80	15M							
C6-C12	316	26.3	mg/kg dry	1	P6E2001	05/19/16	05/20/16	TPH 8015M	
>C12-C28	2320	26.3	mg/kg dry	1	P6E2001	05/19/16	05/20/16	TPH 8015M	
>C28-C35	241	26.3	mg/kg dry	1	P6E2001	05/19/16	05/20/16	TPH 8015M	
Surrogate: 1-Chlorooctane		92.5 %	70-1	30	P6E2001	05/19/16	05/20/16	TPH 8015M	
Surrogate: o-Terphenyl		99.6 %	70-1	30	P6E2001	05/19/16	05/20/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	2880	26.3	mg/kg dry	1	[CALC]	05/19/16	05/20/16	calc	

2057 Commerce Street

Midland TX, 79703

Project: Cotton Draw Station

Project Number: SRS# 2016 057
Project Manager: Curt Stanley

# Sample-22A @ 3' 6E18003-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
	Pern	nian Basin E	nvironmen	tal Lab, I					
Organics by GC									
Benzene	ND	0.00103	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Toluene	ND	0.00206	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		104 %	75-12	25	P6E2307	05/18/16	05/19/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		117 %	75-12	25	P6E2307	05/18/16	05/19/16	EPA 8021B	
General Chemistry Parameters by EPA/	Standard Method	<u>ls</u>							
Chloride	8.62	1.03	mg/kg dry	1	P6E2314	05/23/16	05/23/16	EPA 300.0	
% Moisture	3.0	0.1	%	1	P6E2002	05/20/16	05/20/16	% calculation	
Total Petroleum Hydrocarbons C6-C35 b	oy EPA Method 80	)15M							
C6-C12	ND	25.8	mg/kg dry	1	P6E2001	05/19/16	05/20/16	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P6E2001	05/19/16	05/20/16	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P6E2001	05/19/16	05/20/16	TPH 8015M	
Surrogate: 1-Chlorooctane		73.5 %	70-1.	30	P6E2001	05/19/16	05/20/16	TPH 8015M	
Surrogate: o-Terphenyl		83.9 %	70-1.	30	P6E2001	05/19/16	05/20/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	05/19/16	05/20/16	calc	

Project: Cotton Draw Station Project Number: SRS# 2016 057

2057 Commerce Street Midland TX, 79703

Project Manager: Curt Stanley

## Sample-27A @ 3.5' 6E18003-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Tillaryte						Trepared	rmaryzeu	Wichiod	rvotes
	Perm	nian Basin E	Invironmen	tal Lab, I	<b>∠.P.</b>				
Organics by GC									
Benzene	ND	0.00102	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Toluene	ND	0.00204	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Xylene (p/m)	0.00735	0.00204	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Xylene (o)	0.00380	0.00102	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		110 %	75-1.	25	P6E2307	05/18/16	05/19/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		121 %	75-1.	25	P6E2307	05/18/16	05/19/16	EPA 8021B	
General Chemistry Parameters by E	<b>EPA / Standard Method</b>	s							
Chloride	6.09	1.02	mg/kg dry	1	P6E2314	05/23/16	05/23/16	EPA 300.0	
% Moisture	2.0	0.1	%	1	P6E2002	05/20/16	05/20/16	% calculation	
Total Petroleum Hydrocarbons C6-C	C35 by EPA Method 80	15M							
C6-C12	ND	25.5	mg/kg dry	1	P6E2001	05/19/16	05/20/16	TPH 8015M	
>C12-C28	86.5	25.5	mg/kg dry	1	P6E2001	05/19/16	05/20/16	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P6E2001	05/19/16	05/20/16	TPH 8015M	
Surrogate: 1-Chlorooctane		81.3 %	70-1.	30	P6E2001	05/19/16	05/20/16	TPH 8015M	
Surrogate: o-Terphenyl		92.9 %	70-1.	30	P6E2001	05/19/16	05/20/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	86.5	25.5	mg/kg dry	1	[CALC]	05/19/16	05/20/16	calc	

Project: Cotton Draw Station

2057 Commerce Street Midland TX, 79703 Project Number: SRS# 2016 057 Project Manager: Curt Stanley

> Sample-29 @ 3" 6E18003-10 (Soil)

Analysis	Result	Reporting Limit	Units	Dilution	Batch	Duomonod	Amalyzad	Method	Notes
Analyte	Resuit	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perr	nian Basin E	Environmer	ıtal Lab, l	L <b>.P.</b>				
Organics by GC									
Benzene	ND	0.0202	mg/kg dry	20	P6E2604	05/25/16	05/25/16	EPA 8021B	
Toluene	0.273	0.0404	mg/kg dry	20	P6E2604	05/25/16	05/25/16	EPA 8021B	
Ethylbenzene	0.152	0.0202	mg/kg dry	20	P6E2604	05/25/16	05/25/16	EPA 8021B	
Xylene (p/m)	0.951	0.0404	mg/kg dry	20	P6E2604	05/25/16	05/25/16	EPA 8021B	
Xylene (o)	0.206	0.0202	mg/kg dry	20	P6E2604	05/25/16	05/25/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		106 %	75-1	25	P6E2604	05/25/16	05/25/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		121 %	75-1	25	P6E2604	05/25/16	05/25/16	EPA 8021B	
General Chemistry Parameters by EPA/	Standard Method	ls							
Chloride	105	1.01	mg/kg dry	1	P6E2314	05/23/16	05/23/16	EPA 300.0	
% Moisture	1.0	0.1	%	1	P6E2002	05/20/16	05/20/16	% calculation	
Total Petroleum Hydrocarbons C6-C35 b	oy EPA Method 80	15M							
C6-C12	ND	25.3	mg/kg dry	1	P6E2001	05/19/16	05/20/16	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P6E2001	05/19/16	05/20/16	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P6E2001	05/19/16	05/20/16	TPH 8015M	
Surrogate: 1-Chlorooctane		62.5 %	70-1	30	P6E2001	05/19/16	05/20/16	TPH 8015M	S-GC
Surrogate: o-Terphenyl		72.4 %	70-1	30	P6E2001	05/19/16	05/20/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	05/19/16	05/20/16	calc	

Project: Cotton Draw Station

2057 Commerce Street Midland TX, 79703 Project Number: SRS# 2016 057 Project Manager: Curt Stanley

> Sample-30 @ 3" 6E18003-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Analyte	Result	Limit	Units	Dilution	Datcii	rrepared	Anaryzed	Method	notes
	Perr	nian Basin F	Environme	ntal Lab, l	L <b>.P.</b>				
Organics by GC									
Benzene	0.130	0.0204	mg/kg dry	20	P6E2604	05/25/16	05/25/16	EPA 8021B	
Toluene	1.41	0.0408	mg/kg dry	20	P6E2604	05/25/16	05/25/16	EPA 8021B	
Ethylbenzene	1.14	0.0204	mg/kg dry	20	P6E2604	05/25/16	05/25/16	EPA 8021B	
Xylene (p/m)	8.88	0.0408	mg/kg dry	20	P6E2604	05/25/16	05/25/16	EPA 8021B	
Xylene (o)	2.86	0.0204	mg/kg dry	20	P6E2604	05/25/16	05/25/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		121 %	75-1	25	P6E2604	05/25/16	05/25/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		127 %	75-1	25	P6E2604	05/25/16	05/25/16	EPA 8021B	S-GC
General Chemistry Parameters by EF	PA / Standard Method	ls							
Chloride	146	1.02	mg/kg dry	1	P6E2314	05/23/16	05/23/16	EPA 300.0	
% Moisture	2.0	0.1	%	1	P6E2002	05/20/16	05/20/16	% calculation	
Total Petroleum Hydrocarbons C6-C3	35 by EPA Method 80	15M							
C6-C12	2020	255	mg/kg dry	10	P6E2001	05/19/16	05/20/16	TPH 8015M	
>C12-C28	14800	255	mg/kg dry	10	P6E2001	05/19/16	05/20/16	TPH 8015M	
>C28-C35	1720	255	mg/kg dry	10	P6E2001	05/19/16	05/20/16	TPH 8015M	
Surrogate: 1-Chlorooctane		95.3 %	70-1	30	P6E2001	05/19/16	05/20/16	TPH 8015M	
Surrogate: o-Terphenyl		82.6 %	70-1	30	P6E2001	05/19/16	05/20/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	18500	255	mg/kg dry	10	[CALC]	05/19/16	05/20/16	calc	

Project: Cotton Draw Station

2057 Commerce Street Midland TX, 79703 Project Number: SRS# 2016 057 Project Manager: Curt Stanley

> Sample-31 @ 1' 6E18003-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	nian Basin E	nvironmen	ıtal Lab, l	L <b>.P.</b>				
Organics by GC		-		-					
Benzene	7.68	0.258	mg/kg dry	250	P6E2604	05/25/16	05/26/16	EPA 8021B	
Toluene	72.3	0.515	mg/kg dry	250	P6E2604	05/25/16	05/26/16	EPA 8021B	
Ethylbenzene	23.9	0.258	mg/kg dry	250	P6E2604	05/25/16	05/26/16	EPA 8021B	
Xylene (p/m)	138	0.515	mg/kg dry	250	P6E2604	05/25/16	05/26/16	EPA 8021B	
Xylene (o)	29.3	0.258	mg/kg dry	250	P6E2604	05/25/16	05/26/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		87.8 %	75-1.	25	P6E2604	05/25/16	05/26/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		79.8 %	75-1.	25	P6E2604	05/25/16	05/26/16	EPA 8021B	
General Chemistry Parameters by EP. Chloride	A / Standard Method 49.6	1.03	mg/kg dry	1	P6E2314	05/23/16	05/23/16	EPA 300.0	
% Moisture	3.0	0.1	%	1	P6E2002	05/20/16	05/20/16	% calculation	
Total Petroleum Hydrocarbons C6-C3	5 by EPA Method 80	<u>15M</u>							
C6-C12	4940	129	mg/kg dry	5	P6E2001	05/19/16	05/20/16	TPH 8015M	
>C12-C28	7880	129	mg/kg dry	5	P6E2001	05/19/16	05/20/16	TPH 8015M	
>C28-C35	1030	129	mg/kg dry	5	P6E2001	05/19/16	05/20/16	TPH 8015M	
Surrogate: 1-Chlorooctane		111 %	70-1.	30	P6E2001	05/19/16	05/20/16	TPH 8015M	
Surrogate: o-Terphenyl		71.5 %	70-1.	30	P6E2001	05/19/16	05/20/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	13800	129	mg/kg dry	5	[CALC]	05/19/16	05/20/16	calc	

2057 Commerce Street Midland TX, 79703 Project Number: SRS# 2016 057 Project Manager: Curt Stanley Fax: (432) 520-7701

## Sample-32 @ 1' 6E18003-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Peri	nian Basin F	Environmen	ıtal Lab, I	L <b>.P.</b>				
Organics by GC									
Benzene	ND	0.00101	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Toluene	ND	0.00202	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P6E2307	05/18/16	05/19/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		118 %	75-1	25	P6E2307	05/18/16	05/19/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		109 %	75-1	25	P6E2307	05/18/16	05/19/16	EPA 8021B	
General Chemistry Parameters by EPA / Star	ndard Method	ds							
Chloride	12.4	1.01	mg/kg dry	1	P6E2314	05/23/16	05/23/16	EPA 300.0	
% Moisture	1.0	0.1	%	1	P6E2002	05/20/16	05/20/16	% calculation	
Total Petroleum Hydrocarbons C6-C35 by El	PA Method 80	)15M							
C6-C12	ND	25.3	mg/kg dry	1	P6E2001	05/19/16	05/20/16	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P6E2001	05/19/16	05/20/16	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P6E2001	05/19/16	05/20/16	TPH 8015M	
Surrogate: 1-Chlorooctane		76.8 %	70-1	30	P6E2001	05/19/16	05/20/16	TPH 8015M	
Surrogate: o-Terphenyl		90.9 %	70-1	30	P6E2001	05/19/16	05/20/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	05/19/16	05/20/16	calc	

Project Number: SRS# 2016 057

Project: Cotton Draw Station

Fax: (432) 520-7701

2057 Commerce Street Midland TX, 79703

Project Manager: Curt Stanley

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6E2307 - General Preparation (G	<b>C</b> )									
Blank (P6E2307-BLK1)				Prepared: (	)5/18/16 Ar	nalyzed: 05	/19/16			
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.0578		"	0.0500		116	75-125			
Surrogate: 4-Bromofluorobenzene	0.0660		"	0.0500		132	75-125			S-GC
LCS (P6E2307-BS1)				Prepared: (	05/18/16 Ar	nalyzed: 05	/19/16			
Benzene	0.0948	0.00100	mg/kg wet	0.100		94.8	70-130			
Toluene	0.0957	0.00200	"	0.100		95.7	70-130			
Ethylbenzene	0.109	0.00100	"	0.100		109	70-130			
Xylene (p/m)	0.202	0.00200	"	0.200		101	70-130			
Xylene (o)	0.101	0.00100	"	0.100		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0629		"	0.0500		126	75-125			S-GC
Surrogate: 1,4-Difluorobenzene	0.0595		"	0.0500		119	75-125			
LCS Dup (P6E2307-BSD1)				Prepared: (	)5/18/16 Ar	nalyzed: 05	/19/16			
Benzene	0.0905	0.00100	mg/kg wet	0.100		90.5	70-130	4.65	20	
Toluene	0.0940	0.00200	"	0.100		94.0	70-130	1.88	20	
Ethylbenzene	0.106	0.00100	"	0.100		106	70-130	2.99	20	
Xylene (p/m)	0.198	0.00200	"	0.200		98.8	70-130	2.37	20	
Xylene (o)	0.0985	0.00100	"	0.100		98.5	70-130	2.95	20	
Surrogate: 1,4-Difluorobenzene	0.0605		"	0.0500		121	75-125			
Surrogate: 4-Bromofluorobenzene	0.0650		"	0.0500		130	75-125			S-GC
Batch P6E2604 - General Preparation (G	<b>C</b> )									
Blank (P6E2604-BLK1)				Prepared &	Analyzed:	05/25/16				
Benzene	ND	0.00100	mg/kg wet	•						
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.0620		"	0.0500		124	75-125			
Surrogate: 4-Bromofluorobenzene	0.0653		"	0.0500		131	75-125			S-GC

2057 Commerce Street Midland TX, 79703 Project: Cotton Draw Station
Number: SRS# 2016 057

Project Number: SRS# 2016 057 Project Manager: Curt Stanley

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Analyte	Result	Limit	Units	Level	Resuit	%REC	Limits	RPD	Limit	Notes
Batch P6E2604 - General Preparation (GC)										
LCS (P6E2604-BS1)				Prepared &	Analyzed:	05/25/16				
Benzene	0.0972	0.00100	mg/kg wet	0.100		97.2	70-130			
Toluene	0.0994	0.00200	"	0.100		99.4	70-130			
Ethylbenzene	0.102	0.00100	"	0.100		102	70-130			
Xylene (p/m)	0.192	0.00200	"	0.200		95.9	70-130			
Xylene (o)	0.0986	0.00100	"	0.100		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.0569		"	0.0500		114	75-125			
Surrogate: 1,4-Difluorobenzene	0.0628		"	0.0500		126	75-125			S-GO
LCS Dup (P6E2604-BSD1)				Prepared &	Analyzed:	05/25/16				
Benzene	0.0958	0.00100	mg/kg wet	0.100		95.8	70-130	1.43	20	
Toluene	0.102	0.00200	"	0.100		102	70-130	2.15	20	
Ethylbenzene	0.107	0.00100	"	0.100		107	70-130	4.79	20	
Xylene (p/m)	0.205	0.00200	"	0.200		102	70-130	6.60	20	
Xylene (o)	0.105	0.00100	"	0.100		105	70-130	5.92	20	
Surrogate: 1,4-Difluorobenzene	0.0628		"	0.0500		126	75-125			S-GC
Surrogate: 4-Bromofluorobenzene	0.0609		"	0.0500		122	75-125			
Matrix Spike (P6E2604-MS1)	Sou	ırce: 6E19002	-01	Prepared &	Analyzed:	05/25/16				
Benzene	0.101	0.00101	mg/kg dry	0.101	ND	100	80-120			
Toluene	0.101	0.00202	"	0.101	ND	99.9	80-120			
Ethylbenzene	0.0921	0.00101	"	0.101	ND	91.2	80-120			
Xylene (p/m)	0.198	0.00202	"	0.202	ND	98.2	80-120			
Xylene (o)	0.103	0.00101	"	0.101	ND	102	80-120			
Surrogate: 4-Bromofluorobenzene	0.0562		"	0.0505		111	75-125			
Surrogate: 1,4-Difluorobenzene	0.0621		"	0.0505		123	75-125			
Matrix Spike Dup (P6E2604-MSD1)	Sou	ırce: 6E19002	-01	Prepared &	Analyzed:	05/25/16				
Benzene	0.0875	0.00101	mg/kg dry	0.101	ND	86.6	80-120	14.4	20	
Toluene	0.0979	0.00202	"	0.101	ND	96.9	80-120	3.00	20	
Ethylbenzene	0.118	0.00101	"	0.101	ND	117	80-120	24.6	20	QM-07
Xylene (p/m)	0.253	0.00202	"	0.202	ND	125	80-120	24.1	20	QM-07
Xylene (o)	0.110	0.00101	"	0.101	ND	109	80-120	6.53	20	
Surrogate: 4-Bromofluorobenzene	0.0622		"	0.0505		123	75-125			
Surrogate: 1,4-Difluorobenzene	0.0656		"	0.0505		130	75-125			S-GC

2057 Commerce Street Midland TX, 79703 Project Number: SRS# 2016 057

Project Manager: Curt Stanley

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6E2002 - *** DEFAULT PREP ***										
Blank (P6E2002-BLK1)				Prepared &	Analyzed:	05/20/16				
% Moisture	ND	0.1	%							
Duplicate (P6E2002-DUP1)	Sou	rce: 6E17002-	07	Prepared &	z Analyzed:	05/20/16				
% Moisture	5.0	0.1	%		5.0			0.00	20	
Duplicate (P6E2002-DUP2)	Sou	rce: 6E18003-	04	Prepared &	Analyzed:	05/20/16				
% Moisture	2.0	0.1	%		2.0			0.00	20	
Duplicate (P6E2002-DUP3)	Sou	rce: 6E18003-	13	Prepared &	Analyzed:	05/20/16				
% Moisture	1.0	0.1	%	-	1.0			0.00	20	
Duplicate (P6E2002-DUP4)	Sou	rce: 6E19002-	02	Prepared &	. Analyzed:	05/20/16				
% Moisture	2.0	0.1	%		2.0			0.00	20	
Batch P6E2313 - *** DEFAULT PREP ***										
Blank (P6E2313-BLK1)				Prepared &	Analyzed:	05/23/16				
Chloride	ND	1.00	mg/kg wet							
LCS (P6E2313-BS1)				Prepared &	z Analyzed:	05/23/16				
Chloride	176	1.00	mg/kg wet	200	•	87.9	80-120			
LCS Dup (P6E2313-BSD1)				Prepared &	. Analyzed:	05/23/16				
Chloride	179	1.00	mg/kg wet	200		89.4	80-120	1.75	20	
Duplicate (P6E2313-DUP2)	Sou	rce: 6E17007-	01	Prepared &	z Analyzed:	05/23/16				
Chloride	743	5.88	mg/kg dry	-	740			0.397	20	

Project: Cotton Draw Station

2057 Commerce Street Midland TX, 79703 Project Number: SRS# 2016 057 Project Manager: Curt Stanley

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

Analyta	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Analyte	Kesuit	Limit	Units	Level	Kesuit	%KEC	Limits	KPD	Limit	Notes
Batch P6E2313 - *** DEFAULT PREP ***										
Matrix Spike (P6E2313-MS1)	Sou	rce: 6E17003	-01	Prepared &	k Analyzed:	05/23/16				
Chloride	14000	58.1	mg/kg dry	4650	9770	90.0	80-120			
Batch P6E2314 - *** DEFAULT PREP ***										
Blank (P6E2314-BLK1)				Prepared &	k Analyzed:	05/23/16				
Chloride	ND	1.00	mg/kg wet							
LCS (P6E2314-BS1)				Prepared &	k Analyzed:	05/23/16				
Chloride	171	1.00	mg/kg wet	200		85.5	80-120			
LCS Dup (P6E2314-BSD1)				Prepared &	k Analyzed:	05/23/16				
Chloride	186	1.00	mg/kg wet	200		93.0	80-120	8.40	20	
Duplicate (P6E2314-DUP1)	Sou	rce: 6E18003	-07	Prepared &	k Analyzed:	05/23/16				
Chloride	63.0	1.05	mg/kg dry		62.3			1.14	20	
Duplicate (P6E2314-DUP2)	Sou	rce: 6E18011	-03	Prepared &	k Analyzed:	05/23/16				
Chloride	2370	11.4	mg/kg dry		2370			0.244	20	
Matrix Spike (P6E2314-MS1)	Sou	rce: 6E18003	-07	Prepared &	k Analyzed:	05/23/16				
Chloride	214	1.05	mg/kg dry	158	62.3	96.1	80-120			

Project: Cotton Draw Station

2057 Commerce Street Midland TX, 79703 Project Number: SRS# 2016 057 Project Manager: Curt Stanley

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P6E2001 - TX 1005										
Matrix Spike (P6E2001-MS1)	Sour	ce: 6E18003	i-01	Prepared:	05/19/16 A	nalyzed: 05	/20/16			
C6-C12	738	25.5	mg/kg dry	1020	27.5	69.7	75-125			QM-0:
>C12-C28	1300	25.5	"	1020	988	30.4	75-125			QM-0:
Surrogate: 1-Chlorooctane	78.7		"	102		77.1	70-130			
Surrogate: o-Terphenyl	37.3		"	51.0		73.1	70-130			
Matrix Spike Dup (P6E2001-MSD1)	Sour	ce: 6E18003	i-01	Prepared:	05/19/16 A	nalyzed: 05	/20/16			
C6-C12	779	25.5	mg/kg dry	1020	27.5	73.6	75-125	5.57	20	QM-0:
>C12-C28	1350	25.5	"	1020	988	35.6	75-125	15.6	20	QM-0:
Surrogate: 1-Chlorooctane	87.5		"	102		85.8	70-130			
Surrogate: o-Terphenyl	38.4		"	51.0		75.2	70-130			

2057 Commerce Street Project Number: SRS# 2016 057 Midland TX, 79703 Project Manager: Curt Stanley

#### **Notes and Definitions**

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were

within acceptance limits showing that the laboratory is in control and the data is acceptable.

DET Analyte DETECTED

Analyte NOT DETECTED at or above the reporting limit ND

NR Not Reported

Sample results reported on a dry weight basis dry

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Duplicate Dup

	Burnon Barron			
Report Approved By:		Date:	6/2/2016	

Brent Barron, Laboratory Director/Technical Director

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

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



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



## Analytical Report

## **Prepared for:**

Curt Stanley
TRC Solutions- Midland, Texas
2057 Commerce Street
Midland, TX 79703

Project: Cotton Draw Station
Project Number: 2016-057
Location: Lea Couny, New Mexico

Lab Order Number: 6F07004



NELAP/TCEQ # T104704156-13-3

Report Date: 06/15/16

Project: Cotton Draw Station

2057 Commerce Street Midland TX, 79703 Project Number: 2016-057 Project Manager: Curt Stanley

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Sample-21A @ 1.5'	6F07004-01	Soil	06/06/16 14:31	06-07-2016 12:10
Sample-7A @ 1'	6F07004-02	Soil	06/06/16 14:54	06-07-2016 12:10
Sample-18A @ 2'	6F07004-03	Soil	06/06/16 14:22	06-07-2016 12:10
Sample-30A @ 1'	6F07004-04	Soil	06/06/16 14:12	06-07-2016 12:10
Sample-31A @ 1.5'	6F07004-05	Soil	06/06/16 14:46	06-07-2016 12:10

Project: Cotton Draw Station

2057 Commerce Street Midland TX, 79703 Project Number: 2016-057 Project Manager: Curt Stanley Fax: (432) 520-7701

## Sample-21A @ 1.5' 6F07004-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
	Perm	nian Basin E	Environme	ıtal Lab, l	L <b>.P.</b>				
Organics by GC									
Benzene	ND	0.0510	mg/kg dry	50	P6F1503	06/13/16	06/13/16	EPA 8021B	
Toluene	1.51	0.102	mg/kg dry	50	P6F1503	06/13/16	06/13/16	EPA 8021B	
Ethylbenzene	1.14	0.0510	mg/kg dry	50	P6F1503	06/13/16	06/13/16	EPA 8021B	
Xylene (p/m)	10.1	0.102	mg/kg dry	50	P6F1503	06/13/16	06/13/16	EPA 8021B	
Xylene (o)	2.33	0.0510	mg/kg dry	50	P6F1503	06/13/16	06/13/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		76.9 %	75-1	25	P6F1503	06/13/16	06/13/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		103 %	75-1	25	P6F1503	06/13/16	06/13/16	EPA 8021B	
General Chemistry Parameters by El	PA / Standard Method	S							
Chloride	33.4	1.02	mg/kg dry	1	P6F0803	06/08/16	06/10/16	EPA 300.0	
% Moisture	2.0	0.1	%	1	P6F0901	06/09/16	06/09/16	% calculation	
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 80	15M							
C6-C12	772	25.5	mg/kg dry	1	P6F1005	06/08/16	06/08/16	TPH 8015M	
>C12-C28	3790	25.5	mg/kg dry	1	P6F1005	06/08/16	06/08/16	TPH 8015M	
>C28-C35	366	25.5	mg/kg dry	1	P6F1005	06/08/16	06/08/16	TPH 8015M	
Surrogate: 1-Chlorooctane		52.2 %	70-1	30	P6F1005	06/08/16	06/08/16	TPH 8015M	
Surrogate: o-Terphenyl		47.4 %	70-1	30	P6F1005	06/08/16	06/08/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	4930	25.5	mg/kg dry	1	[CALC]	06/08/16	06/08/16	calc	

2057 Commerce StreetProject Number:2016-057Midland TX, 79703Project Manager:Curt Stanley

# Sample-7A @ 1' 6F07004-02 (Soil)

	<b>D</b>	Reporting	TT '	Dil e	D. d	D 1		Mala	<b>N</b> T :
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	Environmer	ıtal Lab, l	L <b>.P.</b>				
Organics by GC									
Benzene	ND	0.0515	mg/kg dry	50	P6F1503	06/13/16	06/13/16	EPA 8021B	
Toluene	ND	0.103	mg/kg dry	50	P6F1503	06/13/16	06/13/16	EPA 8021B	
Ethylbenzene	ND	0.0515	mg/kg dry	50	P6F1503	06/13/16	06/13/16	EPA 8021B	
Xylene (p/m)	ND	0.103	mg/kg dry	50	P6F1503	06/13/16	06/13/16	EPA 8021B	
Xylene (o)	1.21	0.0515	mg/kg dry	50	P6F1503	06/13/16	06/13/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		100 %	75-1	25	P6F1503	06/13/16	06/13/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		110 %	75-1	25	P6F1503	06/13/16	06/13/16	EPA 8021B	
General Chemistry Parameters by E	PA / Standard Method	ls							
Chloride	27.5	1.03	mg/kg dry	1	P6F0803	06/08/16	06/10/16	EPA 300.0	
% Moisture	3.0	0.1	%	1	P6F0901	06/09/16	06/09/16	% calculation	
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 80	15M							
C6-C12	ND	25.8	mg/kg dry	1	P6F1005	06/08/16	06/08/16	TPH 8015M	
>C12-C28	53.9	25.8	mg/kg dry	1	P6F1005	06/08/16	06/08/16	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P6F1005	06/08/16	06/08/16	TPH 8015M	
Surrogate: 1-Chlorooctane		45.6 %	70-1	30	P6F1005	06/08/16	06/08/16	TPH 8015M	
Surrogate: o-Terphenyl		44.6 %	70-1	30	P6F1005	06/08/16	06/08/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	53.9	25.8	mg/kg dry	1	[CALC]	06/08/16	06/08/16	calc	

2057 Commerce StreetProject Number:2016-057Midland TX, 79703Project Manager:Curt Stanley

# Sample-18A @ 2' 6F07004-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin F	Environme	ntal Lab, l	L <b>.P.</b>				
Organics by GC									
Benzene	ND	0.0510	mg/kg dry	50	P6F1503	06/13/16	06/13/16	EPA 8021B	
Toluene	ND	0.102	mg/kg dry	50	P6F1503	06/13/16	06/13/16	EPA 8021B	
Ethylbenzene	ND	0.0510	mg/kg dry	50	P6F1503	06/13/16	06/13/16	EPA 8021B	
Xylene (p/m)	ND	0.102	mg/kg dry	50	P6F1503	06/13/16	06/13/16	EPA 8021B	
Xylene (o)	ND	0.0510	mg/kg dry	50	P6F1503	06/13/16	06/13/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		111 %	75-1	25	P6F1503	06/13/16	06/13/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		114 %	75-1	25	P6F1503	06/13/16	06/13/16	EPA 8021B	
<b>General Chemistry Parameters by EPA</b>	Standard Method	ls							
Chloride	39.9	1.02	mg/kg dry	1	P6F0803	06/08/16	06/10/16	EPA 300.0	
% Moisture	2.0	0.1	%	1	P6F0901	06/09/16	06/09/16	% calculation	
Total Petroleum Hydrocarbons C6-C35 b	oy EPA Method 80	15M							
C6-C12	ND	25.5	mg/kg dry	1	P6F1005	06/08/16	06/08/16	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P6F1005	06/08/16	06/08/16	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P6F1005	06/08/16	06/08/16	TPH 8015M	
Surrogate: 1-Chlorooctane		45.0 %	70-1	30	P6F1005	06/08/16	06/08/16	TPH 8015M	
Surrogate: o-Terphenyl		45.4 %	70-1	30	P6F1005	06/08/16	06/08/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	06/08/16	06/08/16	calc	

2057 Commerce StreetProject Number:2016-057Midland TX, 79703Project Manager:Curt Stanley

# Sample-30A @ 1' 6F07004-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	Environmer	ıtal Lab, l	L.P.	•			
Organics by GC									
Benzene	ND	0.0510	mg/kg dry	50	P6F1503	06/13/16	06/13/16	EPA 8021B	
Toluene	ND	0.102	mg/kg dry	50	P6F1503	06/13/16	06/13/16	EPA 8021B	
Ethylbenzene	ND	0.0510	mg/kg dry	50	P6F1503	06/13/16	06/13/16	EPA 8021B	
Xylene (p/m)	ND	0.102	mg/kg dry	50	P6F1503	06/13/16	06/13/16	EPA 8021B	
Xylene (o)	ND	0.0510	mg/kg dry	50	P6F1503	06/13/16	06/13/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		114 %	75-1	25	P6F1503	06/13/16	06/13/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		111 %	75-1	25	P6F1503	06/13/16	06/13/16	EPA 8021B	
General Chemistry Parameters by E	PA / Standard Method	s							
Chloride	29.1	1.02	mg/kg dry	1	P6F0803	06/08/16	06/10/16	EPA 300.0	
% Moisture	2.0	0.1	%	1	P6F0901	06/09/16	06/09/16	% calculation	
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 80	15M							
C6-C12	ND	25.5	mg/kg dry	1	P6F1005	06/08/16	06/08/16	TPH 8015M	
>C12-C28	41.9	25.5	mg/kg dry	1	P6F1005	06/08/16	06/08/16	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P6F1005	06/08/16	06/08/16	TPH 8015M	
Surrogate: 1-Chlorooctane		45.6 %	70-1	30	P6F1005	06/08/16	06/08/16	TPH 8015M	
Surrogate: o-Terphenyl		45.4 %	70-1	30	P6F1005	06/08/16	06/08/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	41.9	25.5	mg/kg dry	1	[CALC]	06/08/16	06/08/16	calc	

2057 Commerce StreetProject Number:2016-057Midland TX, 79703Project Manager:Curt Stanley

## Sample-31A @ 1.5' 6F07004-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Peri	nian Basin H	Environme	ıtal Lab, l	<b>P.</b>				
Organics by GC									
Benzene	ND	0.0515	mg/kg dry	50	P6F1503	06/13/16	06/13/16	EPA 8021B	
Toluene	ND	0.103	mg/kg dry	50	P6F1503	06/13/16	06/13/16	EPA 8021B	
Ethylbenzene	ND	0.0515	mg/kg dry	50	P6F1503	06/13/16	06/13/16	EPA 8021B	
Xylene (p/m)	ND	0.103	mg/kg dry	50	P6F1503	06/13/16	06/13/16	EPA 8021B	
Xylene (o)	ND	0.0515	mg/kg dry	50	P6F1503	06/13/16	06/13/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		110 %	75-1	25	P6F1503	06/13/16	06/13/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		112 %	75-1	25	P6F1503	06/13/16	06/13/16	EPA 8021B	
General Chemistry Parameters by EPA / Star	ndard Method	ds							
Chloride	9.87	1.03	mg/kg dry	1	P6F0803	06/08/16	06/10/16	EPA 300.0	
% Moisture	3.0	0.1	%	1	P6F0901	06/09/16	06/09/16	% calculation	
Total Petroleum Hydrocarbons C6-C35 by El	PA Method 80	)15M							
C6-C12	ND	25.8	mg/kg dry	1	P6F1005	06/08/16	06/08/16	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P6F1005	06/08/16	06/08/16	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P6F1005	06/08/16	06/08/16	TPH 8015M	
Surrogate: 1-Chlorooctane		44.8 %	70-1	30	P6F1005	06/08/16	06/08/16	TPH 8015M	
Surrogate: o-Terphenyl		44.6 %	70-1	30	P6F1005	06/08/16	06/08/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	06/08/16	06/08/16	calc	

Project: Cotton Draw Station

2057 Commerce Street Midland TX, 79703 Project Number: 2016-057 Project Manager: Curt Stanley Fax: (432) 520-7701

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Blank (P6F1503-BLK1)				Prepared & A	nalyzed:	06/13/16				
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.0667		"	0.0500		133	75-125			
Surrogate: 4-Bromofluorobenzene	0.0576		"	0.0500		115	75-125			
LCS (P6F1503-BS1)				Prepared & A	nalyzed:	06/13/16				
Benzene	0.107	0.00100	mg/kg wet	0.100	<u></u>	107	70-130			
Toluene	0.111	0.00200	"	0.100		111	70-130			
Ethylbenzene	0.115	0.00100	"	0.100		115	70-130			
Xylene (p/m)	0.190	0.00200	"	0.200		95.1	70-130			
Xylene (o)	0.117	0.00100	"	0.100		117	70-130			
Surrogate: 4-Bromofluorobenzene	0.0607		"	0.0500		121	75-125			
Surrogate: 1,4-Difluorobenzene	0.0627		"	0.0500		125	75-125			
LCS Dup (P6F1503-BSD1)				Prepared & A	nalyzed:	06/13/16				
Benzene	0.105	0.00100	mg/kg wet	0.100		105	70-130	2.14	20	
Toluene	0.112	0.00200	"	0.100		112	70-130	1.66	20	
Ethylbenzene	0.111	0.00100	"	0.100		111	70-130	3.81	20	
Xylene (p/m)	0.194	0.00200	"	0.200		97.2	70-130	2.13	20	
Xylene (o)	0.117	0.00100	"	0.100		117	70-130	0.803	20	
Surrogate: 4-Bromofluorobenzene	0.0640		"	0.0500		128	75-125			
Surrogate: 1,4-Difluorobenzene	0.0636		"	0.0500		127	75-125			
Duplicate (P6F1503-DUP1)	Sour	ce: 6F06003	-22	Prepared & A	nalyzed:	06/13/16				
Benzene	0.00223	0.00133	mg/kg dry		0.00195			13.4	20	
Toluene	0.101	0.00267	"		0.103			1.18	20	
Ethylbenzene	ND	0.00133	"		ND				20	
Xylene (p/m)	0.630	0.00267	"		0.625			0.663	20	
Xylene (o)	0.114	0.00133	"		0.197			53.3	20	
Surrogate: 4-Bromofluorobenzene	0.0545		"	0.0333		163	75-125			
Surrogate: 1,4-Difluorobenzene	0.0538		"	0.0333		161	75-125			

TRC Solutions- Midland, Texas Project: Cotton Draw Station

2057 Commerce StreetProject Number:2016-057Midland TX, 79703Project Manager:Curt Stanley

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P6F0803 - *** DEFAULT PREP ***										
Blank (P6F0803-BLK1)				Prepared &	& Analyzed:	: 06/08/16				
Chloride	ND	1.00	mg/kg wet							
LCS (P6F0803-BS1)				Prepared &	& Analyzed:	06/08/16				
Chloride	183	1.00	mg/kg wet	200		91.7	80-120			
LCS Dup (P6F0803-BSD1)				Prepared &	& Analyzed:	: 06/08/16				
Chloride	185	1.00	mg/kg wet	200		92.4	80-120	0.793	20	
Duplicate (P6F0803-DUP1)	Sou	rce: 6F08001	-02	Prepared &	& Analyzed:	06/08/16				
Chloride	2290	11.2	mg/kg dry		2240			2.25	20	
Duplicate (P6F0803-DUP2)	Sou	rce: 6E27002	-01	Prepared: (	06/08/16 A	nalyzed: 06	/10/16			
Chloride	5120	26.3	mg/kg dry		5180			1.33	20	
Batch P6F0901 - *** DEFAULT PREP ***										
Blank (P6F0901-BLK1)				Prepared &	& Analyzed:	06/09/16				
% Moisture	ND	0.1	%							
Duplicate (P6F0901-DUP1)	Sou	rce: 6F06004	-21	Prepared &	& Analyzed:	: 06/09/16				
% Moisture	5.0	0.1	%		5.0			0.00	20	
Duplicate (P6F0901-DUP2)	Sou	rce: 6F07004	-01	Prepared &	& Analyzed:	06/09/16				
% Moisture	2.0	0.1	%		2.0			0.00	20	
Duplicate (P6F0901-DUP3)	Sou	rce: 6F07005	-01	Prepared &	& Analyzed:	: 06/09/16				
% Moisture	6.0	0.1	%		7.0			15.4	20	

TRC Solutions- Midland, Texas Project: Cotton Draw Station

2057 Commerce StreetProject Number:2016-057Midland TX, 79703Project Manager:Curt Stanley

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P6F1005 - TX 1005										
Blank (P6F1005-BLK1)				Prepared &	: Analyzed:	06/08/16				
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	72.9		"	200		36.5	70-130			
Surrogate: o-Terphenyl	36.8		"	100		36.8	70-130			
LCS (P6F1005-BS1)				Prepared &	: Analyzed:	06/08/16				
C6-C12	939	25.0	mg/kg wet				75-125			
>C12-C28	923	25.0	"				75-125			
Surrogate: 1-Chlorooctane	97.2		"	200		48.6	70-130			
Surrogate: o-Terphenyl	38.6		"	100		38.6	70-130			
LCS Dup (P6F1005-BSD1)				Prepared &	: Analyzed:	06/08/16				
C6-C12	788	25.0	mg/kg wet				75-125		20	
>C12-C28	1020	25.0	"				75-125		20	
Surrogate: 1-Chlorooctane	107		"	200		53.7	70-130			
Surrogate: o-Terphenyl	39.8		"	100		39.8	70-130			
Matrix Spike (P6F1005-MS1)	Sou	rce: 6F07004	-04	Prepared: (	06/08/16 Aı	nalyzed: 06	/09/16			
C6-C12	829	25.5	mg/kg dry		16.3		75-125			
>C12-C28	1190	25.5	"		41.9		75-125			
Surrogate: 1-Chlorooctane	116		"	204		56.9	70-130			
Surrogate: o-Terphenyl	42.0		"	102		41.2	70-130			
Matrix Spike Dup (P6F1005-MSD1)	Sou	rce: 6F07004	-04	Prepared: (	06/08/16 Aı	nalyzed: 06	/09/16			
C6-C12	875	25.5	mg/kg dry		16.3		75-125		20	
>C12-C28	4440	25.5	"		41.9		75-125		20	
× C12-C20	1110	25.5			11.7		70 120			
Surrogate: 1-Chlorooctane	1110	23.3	"	204	11.5	57.2	70-130		· · · · · · · · · · · · · · · · · · ·	

Project: Cotton Draw Station

2057 Commerce Street Midland TX, 79703 Project Number: 2016-057
Project Manager: Curt Stanley

#### **Notes and Definitions**

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

	Dren	Darron			
Report Approved By:			Date:	6/15/2016	

Brent Barron, Laboratory Director/Technical Director

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

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



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



## Analytical Report

#### **Prepared for:**

Curt Stanley
TRC Solutions- Midland, Texas
2057 Commerce Street
Midland, TX 79703

Project: Cotton Draw Station
Project Number: 2016-057
Location: Lea County, New Mexico

Lab Order Number: 6F15007



NELAP/TCEQ # T104704156-13-3

Report Date: 06/21/16

Project: Cotton Draw Station

2057 Commerce Street Midland TX, 79703

Project Number: 2016-057 Project Manager: Curt Stanley

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Sample-3A @ 6"	6F15007-01	Soil	06/14/16 11:15	06-15-2016 14:10
SK-500B @ 1.5'	6F15007-02	Soil	06/14/16 11:05	06-15-2016 14:10
SK-200B @ 1'	6F15007-03	Soil	06/14/16 11:00	06-15-2016 14:10
P400B @ 2'	6F15007-04	Soil	06/14/16 11:10	06-15-2016 14:10

Project: Cotton Draw Station

2057 Commerce Street Midland TX, 79703 Project Number: 2016-057 Project Manager: Curt Stanley Fax: (432) 520-7701

## Sample-3A @ 6" 6F15007-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
	Perm	ian Basin E	nvironmen	ıtal Lab, I	P.				
Organics by GC									
Benzene	0.174	0.111	mg/kg dry	100	P6F2012	06/17/16	06/17/16	EPA 8021B	
Toluene	4.19	0.222	mg/kg dry	100	P6F2012	06/17/16	06/17/16	EPA 8021B	
Ethylbenzene	1.79	0.111	mg/kg dry	100	P6F2012	06/17/16	06/17/16	EPA 8021B	
Xylene (p/m)	13.5	0.222	mg/kg dry	100	P6F2012	06/17/16	06/17/16	EPA 8021B	
Xylene (o)	4.22	0.111	mg/kg dry	100	P6F2012	06/17/16	06/17/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		110 %	75-1.	25	P6F2012	06/17/16	06/17/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.4 %	75-1.	25	P6F2012	06/17/16	06/17/16	EPA 8021B	
General Chemistry Parameters by EP	'A / Standard Method	<u>s</u>							
Chloride	48.4	1.11	mg/kg dry	1	P6F1703	06/17/16	06/17/16	EPA 300.0	
% Moisture	10.0	0.1	%	1	P6F1603	06/16/16	06/16/16	% calculation	
Total Petroleum Hydrocarbons C6-C3	35 by EPA Method 80	15M							
C6-C12	1240	278	mg/kg dry	10	P6F1610	06/15/16	06/16/16	TPH 8015M	
>C12-C28	11500	278	mg/kg dry	10	P6F1610	06/15/16	06/16/16	TPH 8015M	
>C28-C35	1650	278	mg/kg dry	10	P6F1610	06/15/16	06/16/16	TPH 8015M	
Surrogate: 1-Chlorooctane		101 %	70-1.	30	P6F1610	06/15/16	06/16/16	TPH 8015M	
Surrogate: o-Terphenyl		84.0 %	70-1.	30	P6F1610	06/15/16	06/16/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	14400	278	mg/kg dry	10	[CALC]	06/15/16	06/16/16	calc	

TRC Solutions- Midland, Texas Project: Cotton Draw Station

2057 Commerce StreetProject Number:2016-057Midland TX, 79703Project Manager:Curt Stanley

SK-500B @ 1.5' 6F15007-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	nvironme	ntal Lab, l	L <b>.P.</b>				
Organics by GC									
Benzene	ND	0.0202	mg/kg dry	20	P6F2021	06/18/16	06/18/16	EPA 8021B	
Toluene	ND	0.0404	mg/kg dry	20	P6F2021	06/18/16	06/18/16	EPA 8021B	
Ethylbenzene	0.0210	0.0202	mg/kg dry	20	P6F2021	06/18/16	06/18/16	EPA 8021B	
Xylene (p/m)	0.138	0.0404	mg/kg dry	20	P6F2021	06/18/16	06/18/16	EPA 8021B	
Xylene (o)	0.104	0.0202	mg/kg dry	20	P6F2021	06/18/16	06/18/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		111 %	75-1	25	P6F2021	06/18/16	06/18/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		95.5 %	75-1	25	P6F2021	06/18/16	06/18/16	EPA 8021B	
General Chemistry Parameters by El	PA / Standard Method	ds							
Chloride	124	1.01	mg/kg dry	1	P6F1703	06/17/16	06/17/16	EPA 300.0	
% Moisture	1.0	0.1	%	1	P6F1603	06/16/16	06/16/16	% calculation	
Total Petroleum Hydrocarbons C6-C	235 by EPA Method 80	015M							
C6-C12	ND	25.3	mg/kg dry	1	P6F1610	06/15/16	06/16/16	TPH 8015M	
>C12-C28	927	25.3	mg/kg dry	1	P6F1610	06/15/16	06/16/16	TPH 8015M	
>C28-C35	219	25.3	mg/kg dry	1	P6F1610	06/15/16	06/16/16	TPH 8015M	
Surrogate: 1-Chlorooctane		87.0 %	70-1	30	P6F1610	06/15/16	06/16/16	TPH 8015M	
Surrogate: o-Terphenyl		94.7 %	70-1	30	P6F1610	06/15/16	06/16/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	1150	25.3	mg/kg dry	1	[CALC]	06/15/16	06/16/16	calc	

Project: Cotton Draw Station

2057 Commerce Street Midland TX, 79703 Project Number: 2016-057 Project Manager: Curt Stanley

> SK-200B @ 1' 6F15007-03 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	Environmen	ıtal Lab, I	P.				
Organics by GC									
Benzene	ND	0.0202	mg/kg dry	20	P6F2021	06/18/16	06/18/16	EPA 8021B	
Toluene	0.772	0.0404	mg/kg dry	20	P6F2021	06/18/16	06/18/16	EPA 8021B	
Ethylbenzene	0.633	0.0202	mg/kg dry	20	P6F2021	06/18/16	06/18/16	EPA 8021B	
Xylene (p/m)	4.47	0.0404	mg/kg dry	20	P6F2021	06/18/16	06/18/16	EPA 8021B	
Xylene (o)	1.41	0.0202	mg/kg dry	20	P6F2021	06/18/16	06/18/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		107 %	75-1	25	P6F2021	06/18/16	06/18/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.7 %	75-1	25	P6F2021	06/18/16	06/18/16	EPA 8021B	
<b>General Chemistry Parameters by EP</b>	A / Standard Method	ds							
Chloride	308	1.01	mg/kg dry	1	P6F1703	06/17/16	06/17/16	EPA 300.0	
% Moisture	1.0	0.1	%	1	P6F1603	06/16/16	06/16/16	% calculation	
Total Petroleum Hydrocarbons C6-C3	35 by EPA Method 80	015M							
C6-C12	668	126	mg/kg dry	5	P6F1610	06/15/16	06/16/16	TPH 8015M	
>C12-C28	8980	126	mg/kg dry	5	P6F1610	06/15/16	06/16/16	TPH 8015M	
>C28-C35	1110	126	mg/kg dry	5	P6F1610	06/15/16	06/16/16	TPH 8015M	
Surrogate: 1-Chlorooctane		104 %	70-1	30	P6F1610	06/15/16	06/16/16	TPH 8015M	
Surrogate: o-Terphenyl		87.7 %	70-1	30	P6F1610	06/15/16	06/16/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	10800	126	mg/kg dry	5	[CALC]	06/15/16	06/16/16	calc	

Project: Cotton Draw Station

2057 Commerce Street Midland TX, 79703 Project Number: 2016-057 Project Manager: Curt Stanley

> P400B @ 2' 6F15007-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
	Pern	nian Basin E	nvironmer	ıtal Lab, l	L <b>.P.</b>				
Organics by GC									
Benzene	ND	0.0204	mg/kg dry	20	P6F2021	06/18/16	06/18/16	EPA 8021B	
Toluene	0.736	0.0408	mg/kg dry	20	P6F2021	06/18/16	06/18/16	EPA 8021B	
Ethylbenzene	ND	0.0204	mg/kg dry	20	P6F2021	06/18/16	06/18/16	EPA 8021B	
Xylene (p/m)	5.03	0.0408	mg/kg dry	20	P6F2021	06/18/16	06/18/16	EPA 8021B	
Xylene (o)	1.89	0.0204	mg/kg dry	20	P6F2021	06/18/16	06/18/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		100 %	75-1	25	P6F2021	06/18/16	06/18/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		112 %	75-1	25	P6F2021	06/18/16	06/18/16	EPA 8021B	
General Chemistry Parameters by EP	A / Standard Method	ds							
Chloride	12.8	1.02	mg/kg dry	1	P6F1703	06/17/16	06/17/16	EPA 300.0	
% Moisture	2.0	0.1	%	1	P6F1603	06/16/16	06/16/16	% calculation	
Total Petroleum Hydrocarbons C6-C.	35 by EPA Method 80	015M							
C6-C12	1060	128	mg/kg dry	5	P6F1610	06/15/16	06/16/16	TPH 8015M	
>C12-C28	7410	128	mg/kg dry	5	P6F1610	06/15/16	06/16/16	TPH 8015M	
>C28-C35	914	128	mg/kg dry	5	P6F1610	06/15/16	06/16/16	TPH 8015M	
Surrogate: 1-Chlorooctane		110 %	70-1	30	P6F1610	06/15/16	06/16/16	TPH 8015M	
Surrogate: o-Terphenyl		93.4 %	70-1	30	P6F1610	06/15/16	06/16/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	9390	128	mg/kg dry	5	[CALC]	06/15/16	06/16/16	calc	

Project: Cotton Draw Station

2057 Commerce Street Midland TX, 79703 Project Number: 2016-057 Project Manager: Curt Stanley

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P6F2012 - General Preparation	(GC)									
Blank (P6F2012-BLK1)				Prepared &	Analyzed:	06/17/16				
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.0602		"	0.0600		100	75-125			
Surrogate: 4-Bromofluorobenzene	0.0642		"	0.0600		107	75-125			
LCS (P6F2012-BS1)				Prepared &	Analyzed:	06/17/16				
Benzene	0.118	0.00100	mg/kg wet	0.100		118	70-130			
Toluene	0.0936	0.00200	"	0.100		93.6	70-130			
Ethylbenzene	0.114	0.00100	"	0.100		114	70-130			
Xylene (p/m)	0.212	0.00200	"	0.200		106	70-130			
Xylene (o)	0.121	0.00100	"	0.100		121	70-130			
Surrogate: 1,4-Difluorobenzene	0.0603		"	0.0600		101	75-125			
Surrogate: 4-Bromofluorobenzene	0.0688		"	0.0600		115	75-125			
LCS Dup (P6F2012-BSD1)				Prepared &	Analyzed:	06/17/16				
Benzene	0.117	0.00100	mg/kg wet	0.100		117	70-130	0.637	20	
Toluene	0.0942	0.00200	"	0.100		94.2	70-130	0.660	20	
Ethylbenzene	0.116	0.00100	"	0.100		116	70-130	1.83	20	
Xylene (p/m)	0.210	0.00200	"	0.200		105	70-130	0.673	20	
Xylene (o)	0.116	0.00100	"	0.100		116	70-130	4.35	20	
Surrogate: 1,4-Difluorobenzene	0.0608		"	0.0600		101	75-125			
Surrogate: 4-Bromofluorobenzene	0.0700		"	0.0600		117	75-125			
Matrix Spike (P6F2012-MS1)	Sour	rce: 6F09011	-05	Prepared &	Analyzed:	06/17/16				
Benzene	0.0998	0.0208	mg/kg dry	0.104	ND	95.8	80-120			
Toluene	0.0812	0.0417	"	0.104	ND	78.0	80-120			QM-0
Ethylbenzene	0.164	0.0208	"	0.104	ND	157	80-120			QM-0
Xylene (p/m)	0.598	0.0417	"	0.208	0.360	115	80-120			
Xylene (o)	0.142	0.0208	"	0.104	0.0444	93.6	80-120			
Surrogate: 1,4-Difluorobenzene	0.0679		"	0.0625		109	75-125			

Surrogate: 4-Bromofluorobenzene

75.6

75-125

0.0625

0.0473

Project: Cotton Draw Station

2057 Commerce Street Midland TX, 79703 Project Number: 2016-057 Project Manager: Curt Stanley Fax: (432) 520-7701

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
•	resuit	Limit	Omb	Level	resurt	/UICLC	Limito	IG D	Limit	110003
Batch P6F2012 - General Preparation (GC)  Matrix Spike Dup (P6F2012-MSD1)	Son	rce: 6F09011	_05	Prepared &	Analyzed:	06/17/16				
Benzene	0.120	0.0208	mg/kg dry	0.104	ND	115	80-120	18.0	20	
Toluene	0.126	0.0417	mg/kg dry	0.104	ND	121	80-120	43.5	20	QM-0
Ethylbenzene	0.138	0.0208	"	0.104	ND	132	80-120	17.3	20	OM-0
Xylene (p/m)	0.354	0.0417	"	0.208	0.360	NR	80-120	NR	20	OM-0
Xylene (o)	0.193	0.0208	"	0.104	0.0444	143	80-120	41.8	20	QM-0
Surrogate: 4-Bromofluorobenzene	1.19		"	0.0625		NR	75-125			S-G
Surrogate: 1,4-Difluorobenzene	0.0703		"	0.0625		113	75-125			
Batch P6F2021 - General Preparation (GC)										
Blank (P6F2021-BLK1)				Prepared &	z Analyzed:	06/18/16				
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.0615		"	0.0600		103	75-125			
Surrogate: 4-Bromofluorobenzene	0.0626		"	0.0600		104	75-125			
LCS (P6F2021-BS1)				Prepared &	Analyzed:	06/18/16				
Benzene	0.115	0.00100	mg/kg wet	0.100		115	70-130			
Toluene	0.0946	0.00200	"	0.100		94.6	70-130			
Ethylbenzene	0.112	0.00100	"	0.100		112	70-130			
Xylene (p/m)	0.204	0.00200	"	0.200		102	70-130			
Xylene (o)	0.116	0.00100	"	0.100		116	70-130			
Surrogate: 4-Bromofluorobenzene	0.0666		"	0.0600		111	75-125			
Surrogate: 1,4-Difluorobenzene	0.0609		"	0.0600		102	75-125			

Project: Cotton Draw Station

2057 Commerce Street Midland TX, 79703 Project Number: 2016-057 Project Manager: Curt Stanley Fax: (432) 520-7701

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P6F2021 - General Preparation (GC)										
LCS Dup (P6F2021-BSD1)				Prepared &	Analyzed:	06/18/16				
Benzene	0.108	0.00100	mg/kg wet	0.100		108	70-130	6.69	20	
Toluene	0.0874	0.00200	"	0.100		87.4	70-130	7.94	20	
Ethylbenzene	0.107	0.00100	"	0.100		107	70-130	4.34	20	
Xylene (p/m)	0.183	0.00200	"	0.200		91.7	70-130	10.4	20	
Xylene (o)	0.106	0.00100	"	0.100		106	70-130	9.01	20	
Surrogate: 1,4-Difluorobenzene	0.0633		"	0.0600		106	75-125			
Surrogate: 4-Bromofluorobenzene	0.0657		"	0.0600		109	75-125			
Duplicate (P6F2021-DUP1)	Soi	urce: 6F15007	-04	Prepared &	Analyzed:	06/18/16				
Benzene	ND	0.0204	mg/kg dry		ND				20	
Toluene	0.834	0.0408	"		0.736			12.6	20	
Ethylbenzene	ND	0.0204	"		ND				20	
Xylene (p/m)	4.81	0.0408	"		5.03			4.44	20	
Xylene (o)	1.87	0.0204	"		1.89			1.09	20	
Surrogate: 4-Bromofluorobenzene	0.0599		"	0.0612		97.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.0564		"	0.0612		92.1	75-125			

Project: Cotton Draw Station

2057 Commerce Street Midland TX, 79703 Project Number: 2016-057

Fax: (432) 520-7701

Project Manager: Curt Stanley

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

		Reporting	_	Spike	Source	<u> </u>	%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P6F1603 - *** DEFAULT PREP ***										
Blank (P6F1603-BLK1)				Prepared &	Analyzed:	06/16/16				
% Moisture	ND	0.1	%							
Duplicate (P6F1603-DUP2)	Sou	rce: 6F16003	-01	Prepared &	Analyzed:	06/16/16				
% Moisture	8.0	0.1	%		7.0			13.3	20	
Batch P6F1703 - *** DEFAULT PREP ***										
Blank (P6F1703-BLK1)				Prepared &	Analyzed:	06/17/16				
Chloride	ND	1.00	mg/kg wet							
LCS (P6F1703-BS1)				Prepared &	Analyzed:	06/17/16				
Chloride	163	1.00	mg/kg wet	150		108	80-120			
LCS Dup (P6F1703-BSD1)				Prepared &	Analyzed:	06/17/16				
Chloride	159	1.00	mg/kg wet	150		106	80-120	2.01	20	
Duplicate (P6F1703-DUP1)	Sou	rce: 6F14005	-21	Prepared &	Analyzed:	06/17/16				
Chloride	2460	10.6	mg/kg dry		2420			1.90	20	
Duplicate (P6F1703-DUP2)	Sou	rce: 6F09007	-06	Prepared &	z Analyzed:	06/17/16				
Chloride	2410	11.6	mg/kg dry		2410			0.116	20	

Project: Cotton Draw Station

2057 Commerce Street Midland TX, 79703 Project Number: 2016-057 Project Manager: Curt Stanley Fax: (432) 520-7701

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P6F1610 - TX 1005										
Blank (P6F1610-BLK1)				Prepared: (	06/15/16 Aı	nalyzed: 06	/16/16			
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	101		"	100		101	70-130			
Surrogate: o-Terphenyl	52.8		"	50.0		106	70-130			
LCS (P6F1610-BS1)				Prepared: (	)6/15/16 Aı	nalyzed: 06	5/16/16			
C6-C12	800	25.0	mg/kg wet	1000		80.0	75-125			
>C12-C28	1070	25.0	"	1000		107	75-125			
Surrogate: 1-Chlorooctane	91.1		"	100		91.1	70-130			
Surrogate: o-Terphenyl	41.5		"	50.0		83.1	70-130			
LCS Dup (P6F1610-BSD1)				Prepared: (	06/15/16 Aı	nalyzed: 06	5/16/16			
C6-C12	850	25.0	mg/kg wet	1000		85.0	75-125	6.03	20	
>C12-C28	1120	25.0	"	1000		112	75-125	4.51	20	
Surrogate: 1-Chlorooctane	99.5		"	100		99.5	70-130			
Surrogate: o-Terphenyl	43.7		"	50.0		87.4	70-130			
Matrix Spike (P6F1610-MS1)	Sour	ce: 6F13010	-02	Prepared: (	06/15/16 Aı	nalyzed: 06	5/16/16			
C6-C12	997	28.7	mg/kg dry	1150	ND	86.8	75-125			
>C12-C28	1300	28.7	"	1150	139	101	75-125			
Surrogate: 1-Chlorooctane	116		"	115		101	70-130			
Surrogate: o-Terphenyl	58.6		"	57.5		102	70-130			
Matrix Spike Dup (P6F1610-MSD1)	Sour	ce: 6F13010	-02	Prepared: (	06/15/16 Aı	nalyzed: 06	5/16/16			
C6-C12	1040	28.7	mg/kg dry	1150	ND	90.8	75-125	4.59	20	
>C12-C28	1370	28.7	"	1150	139	107	75-125	5.90	20	
Surrogate: 1-Chlorooctane	129		"	115		112	70-130			
Surrogate: o-Terphenyl	55.5		"	57.5		96.5	70-130			

Project: Cotton Draw Station

2057 Commerce Street Midland TX, 79703 Project Number: 2016-057
Project Manager: Curt Stanley

**Notes and Definitions** 

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

	1 Drew	Darror		
Report Approved By:			Date:	6/21/2016

R AR

Brent Barron, Laboratory Director/Technical Director

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

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

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			7)	Special Instructions: Soil samples may contain surfactants			<u>,</u>				P400B @ 2	SK-200B @ 1	SK-500B @ 1.5	Sample-3A @ 6"	FIELD CODE	75007		gnature:	No: (42)		\ddress: 205				VA 13
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#### PERMIAN BASIN ENVIRONMENTAL LAB, LP 1400 Rankin Hwy Midland, TX 79701



## Analytical Report

#### **Prepared for:**

Curt Stanley
TRC Solutions- Midland, Texas
2057 Commerce Street
Midland, TX 79703

Project: Cotton Draw Station
Project Number: AFE 20362
Location: Lea County, New Mexico

Lab Order Number: 6L19011



NELAP/TCEQ # T104704156-13-3

Report Date: 12/22/16

Project: Cotton Draw Station

2057 Commerce Street Midland TX, 79703

Project Number: AFE 20362 Project Manager: Curt Stanley

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Sample-3B @ 6"	6L19011-01	Soil	12/16/16 09:00	12-19-2016 13:45
SK-200C @ 1'	6L19011-02	Soil	12/16/16 09:10	12-19-2016 13:45
P400C @ 2'	6L19011-03	Soil	12/16/16 09:20	12-19-2016 13:45

Project: Cotton Draw Station

2057 Commerce Street Midland TX, 79703 Project Number: AFE 20362 Project Manager: Curt Stanley Fax: (432) 520-7701

#### Sample-3B @ 6" 6L19011-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	nvironmen	ıtal Lab, I	<b>P.</b>				
Organics by GC									
Benzene	0.00278	0.00109	mg/kg dry	1	P6L2201	12/20/16	12/20/16	EPA 8021B	
Toluene	0.0125	0.00217	mg/kg dry	1	P6L2201	12/20/16	12/20/16	EPA 8021B	
Ethylbenzene	0.0117	0.00109	mg/kg dry	1	P6L2201	12/20/16	12/20/16	EPA 8021B	
Xylene (p/m)	0.0585	0.00217	mg/kg dry	1	P6L2201	12/20/16	12/20/16	EPA 8021B	
Xylene (o)	0.123	0.00109	mg/kg dry	1	P6L2201	12/20/16	12/20/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		77.7 %	75-1.	25	P6L2201	12/20/16	12/20/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-1.	25	P6L2201	12/20/16	12/20/16	EPA 8021B	
General Chemistry Parameters by El	PA / Standard Method	ds							
Chloride	33.6	1.09	mg/kg dry	1	P6L1904	12/19/16	12/20/16	EPA 300.0	
% Moisture	8.0	0.1	%	1	P6L2101	12/21/16	12/21/16	% calculation	
Total Petroleum Hydrocarbons C6-C	235 by EPA Method 80	015M							
C6-C12	737	27.2	mg/kg dry	1	P6L2007	12/19/16	12/20/16	TPH 8015M	
>C12-C28	3500	27.2	mg/kg dry	1	P6L2007	12/19/16	12/20/16	TPH 8015M	
>C28-C35	504	27.2	mg/kg dry	1	P6L2007	12/19/16	12/20/16	TPH 8015M	
Surrogate: 1-Chlorooctane		93.6 %	70-1.	30	P6L2007	12/19/16	12/20/16	TPH 8015M	
Surrogate: o-Terphenyl		105 %	70-1.	30	P6L2007	12/19/16	12/20/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	4740	27.2	mg/kg dry	1	[CALC]	12/19/16	12/20/16	calc	

Project: Cotton Draw Station

2057 Commerce Street Midland TX, 79703 Project Number: AFE 20362 Project Manager: Curt Stanley Fax: (432) 520-7701

SK-200C @ 1' 6L19011-02 (Soil)

		Reporting	·	·		·			
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	nvironmen	ıtal Lab, I	Р.				
Organics by GC									
Benzene	ND	0.00104	mg/kg dry	1	P6L2201	12/20/16	12/20/16	EPA 8021B	
Toluene	0.00250	0.00208	mg/kg dry	1	P6L2201	12/20/16	12/20/16	EPA 8021B	
Ethylbenzene	0.00288	0.00104	mg/kg dry	1	P6L2201	12/20/16	12/20/16	EPA 8021B	
Xylene (p/m)	0.0291	0.00208	mg/kg dry	1	P6L2201	12/20/16	12/20/16	EPA 8021B	
Xylene (o)	0.0248	0.00104	mg/kg dry	1	P6L2201	12/20/16	12/20/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		85.6 %	75-1	25	P6L2201	12/20/16	12/20/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		86.4 %	75-1	25	P6L2201	12/20/16	12/20/16	EPA 8021B	
<b>General Chemistry Parameters by E</b>	PA / Standard Method	ls							
Chloride	4.82	1.04	mg/kg dry	1	P6L1904	12/19/16	12/20/16	EPA 300.0	·
% Moisture	4.0	0.1	%	1	P6L2101	12/21/16	12/21/16	% calculation	
Total Petroleum Hydrocarbons C6-C	C35 by EPA Method 80	015M							
C6-C12	267	26.0	mg/kg dry	1	P6L2007	12/19/16	12/20/16	TPH 8015M	
>C12-C28	1330	26.0	mg/kg dry	1	P6L2007	12/19/16	12/20/16	TPH 8015M	
>C28-C35	198	26.0	mg/kg dry	1	P6L2007	12/19/16	12/20/16	TPH 8015M	
Surrogate: 1-Chlorooctane		87.5 %	70-1	30	P6L2007	12/19/16	12/20/16	TPH 8015M	
Surrogate: o-Terphenyl		107 %	70-1	30	P6L2007	12/19/16	12/20/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	1790	26.0	mg/kg dry	1	[CALC]	12/19/16	12/20/16	calc	

Project: Cotton Draw Station

2057 Commerce Street Midland TX, 79703

Project Number: AFE 20362

Project Manager: Curt Stanley

P400C @ 2' 6L19011-03 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	Environmer	ıtal Lab, I	L.P.				
Organics by GC									
Benzene	ND	0.00106	mg/kg dry	1	P6L2201	12/20/16	12/20/16	EPA 8021B	
Toluene	0.00414	0.00213	mg/kg dry	1	P6L2201	12/20/16	12/20/16	EPA 8021B	
Ethylbenzene	0.0153	0.00106	mg/kg dry	1	P6L2201	12/20/16	12/20/16	EPA 8021B	
Xylene (p/m)	0.0394	0.00213	mg/kg dry	1	P6L2201	12/20/16	12/20/16	EPA 8021B	
Xylene (o)	0.0172	0.00106	mg/kg dry	1	P6L2201	12/20/16	12/20/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		92.3 %	75-1	25	P6L2201	12/20/16	12/20/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		87.4 %	75-1	25	P6L2201	12/20/16	12/20/16	EPA 8021B	
<b>General Chemistry Parameters by E</b>	CPA / Standard Method	ds							
Chloride	10.4	1.06	mg/kg dry	1	P6L2002	12/20/16	12/20/16	EPA 300.0	
% Moisture	6.0	0.1	%	1	P6L2101	12/21/16	12/21/16	% calculation	
Total Petroleum Hydrocarbons C6-0	C35 by EPA Method 80	015M							
C6-C12	421	26.6	mg/kg dry	1	P6L2007	12/19/16	12/20/16	TPH 8015M	
>C12-C28	2170	26.6	mg/kg dry	1	P6L2007	12/19/16	12/20/16	TPH 8015M	
>C28-C35	302	26.6	mg/kg dry	1	P6L2007	12/19/16	12/20/16	TPH 8015M	
Surrogate: 1-Chlorooctane		79.6 %	70-1	30	P6L2007	12/19/16	12/20/16	TPH 8015M	
Surrogate: o-Terphenyl		98.8 %	70-1	30	P6L2007	12/19/16	12/20/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	2890	26.6	mg/kg dry	1	[CALC]	12/19/16	12/20/16	calc	

Project: Cotton Draw Station

2057 Commerce Street Midland TX, 79703 Project Number: AFE 20362 Project Manager: Curt Stanley Fax: (432) 520-7701

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

					_					
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch P6L2201 - General Preparatio	n (GC)									
Blank (P6L2201-BLK1)				Prepared &	Analyzed:	12/20/16				
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.0546		"	0.0600		90.9	75-125			
Surrogate: 4-Bromofluorobenzene	0.0613		"	0.0600		102	75-125			
LCS (P6L2201-BS1)				Prepared &	Analyzed:	12/20/16				
Benzene	0.0975	0.00100	mg/kg wet	0.100		97.5	70-130			
Toluene	0.101	0.00200	"	0.100		101	70-130			
Ethylbenzene	0.115	0.00100	"	0.100		115	70-130			
Xylene (p/m)	0.209	0.00200	"	0.200		105	70-130			
Xylene (o)	0.100	0.00100	"	0.100		100	70-130			
Surrogate: 1,4-Difluorobenzene	0.0565		"	0.0600		94.1	75-125			
Surrogate: 4-Bromofluorobenzene	0.0611		"	0.0600		102	75-125			
LCS Dup (P6L2201-BSD1)				Prepared &	Analyzed:	12/20/16				
Benzene	0.0968	0.00100	mg/kg wet	0.100		96.8	70-130	0.690	20	
Toluene	0.103	0.00200	"	0.100		103	70-130	1.97	20	
Ethylbenzene	0.121	0.00100	"	0.100		121	70-130	5.40	20	
Xylene (p/m)	0.214	0.00200	"	0.200		107	70-130	2.17	20	
Xylene (o)	0.102	0.00100	"	0.100		102	70-130	1.97	20	
Surrogate: 4-Bromofluorobenzene	0.0664		"	0.0600		111	75-125			
Surrogate: 1,4-Difluorobenzene	0.0585		"	0.0600		97.5	75-125			
Matrix Spike (P6L2201-MS1)	Sour	ce: 6L19011	-03	Prepared &	Analyzed:	12/20/16				
Benzene	0.105	0.00106	mg/kg dry	0.106	ND	98.4	80-120			
Toluene	0.0619	0.00213	"	0.106	0.00414	54.3	80-120			QM-0
Ethylbenzene	0.0480	0.00106	"	0.106	0.0153	30.8	80-120			QM-0
Xylene (p/m)	0.0899	0.00213	"	0.213	0.0394	23.7	80-120			QM-0
Xylene (o)	0.0428	0.00106	"	0.106	0.0172	24.1	80-120			QM-0
Surrogate: 1,4-Difluorobenzene	0.0654		"	0.0638		102	75-125			
Surrogate: 4-Bromofluorobenzene	0.0645		"	0.0638		101	75-125			

Project: Cotton Draw Station

2057 Commerce Street Midland TX, 79703 Project Number: AFE 20362 Project Manager: Curt Stanley Fax: (432) 520-7701

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch P6L2201 - General Preparation (G	iC)	)
----------------------------------------	-----	---

Matrix Spike Dup (P6L2201-MSD1)	Sour	rce: 6L19011	1-03	Prepared &	& Analyzed:	12/20/16				
Benzene	0.160	0.00106	mg/kg dry	0.213	ND	75.0	80-120	26.9	20	QM-07, R2
Toluene	0.136	0.00213	"	0.213	0.00414	61.9	80-120	13.1	20	QM-07
Ethylbenzene	0.116	0.00106	"	0.213	0.0153	47.4	80-120	42.5	20	QM-07, R2
Xylene (p/m)	0.231	0.00213	"	0.426	0.0394	45.1	80-120	62.1	20	QM-07, R2
Xylene (o)	0.139	0.00106	"	0.213	0.0172	57.5	80-120	82.0	20	QM-07, R2
Surrogate: 4-Bromofluorobenzene	0.0644		"	0.0638		101	75-125			
Surrogate: 1,4-Difluorobenzene	0.0721		"	0.0638		113	75-125			

Project: Cotton Draw Station

2057 Commerce Street Midland TX, 79703 Project Number: AFE 20362 Project Manager: Curt Stanley Fax: (432) 520-7701

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

	D. I.	Reporting	<b>T</b> T *:	Spike	Source	A/DEG	%REC	DDD	RPD	N
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P6L1904 - *** DEFAULT PREP ***										
Blank (P6L1904-BLK1)				Prepared: 1	12/19/16 A	nalyzed: 12	2/20/16			
Chloride	ND	1.00	mg/kg wet							
LCS (P6L1904-BS1)				Prepared: 1	12/19/16 A	nalyzed: 12	2/20/16			
Chloride	384	1.00	mg/kg wet	400		96.1	80-120			
LCS Dup (P6L1904-BSD1)				Prepared:	12/19/16 A	nalyzed: 12	2/20/16			
Chloride	390	1.00	mg/kg wet	400		97.5	80-120	1.45	20	
Duplicate (P6L1904-DUP1)	Sour	rce: 6L19002	2-08	Prepared:	12/19/16 A	nalyzed: 12	2/20/16			
Chloride	280	1.06	mg/kg dry		296			5.52	20	
Duplicate (P6L1904-DUP2)	Sour	ce: 6L19010	)-03	Prepared:	12/19/16 A	nalyzed: 12	2/20/16			
Chloride	533	1.05	mg/kg dry		527			1.15	20	
Matrix Spike (P6L1904-MS1)	Sour	ce: 6L19002	2-08	Prepared: 1	12/19/16 A	nalyzed: 12				
Chloride	1250	1.06	mg/kg dry	1060	296	89.6	80-120			
Batch P6L2002 - *** DEFAULT PREP ***										
Blank (P6L2002-BLK1)				Prepared &	Analyzed:	12/20/16				
Chloride	ND	1.00	mg/kg wet							
LCS (P6L2002-BS1)				Prepared &	Analyzed:	12/20/16				
Chloride	382	1.00	mg/kg wet	400		95.5	80-120			
LCS Dup (P6L2002-BSD1)				Prepared &	Analyzed:	12/20/16				
Chloride	393	1.00	mg/kg wet	400		98.3	80-120	2.85	20	

Project: Cotton Draw Station

2057 Commerce Street Midland TX, 79703 Project Number: AFE 20362 Project Manager: Curt Stanley

Fax: (432) 520-7701

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P6L2002 - *** DEFAULT PREP ***										
Duplicate (P6L2002-DUP1)	Sourc	ce: 6L19011-	-03	Prepared &	Analyzed:	12/20/16				
Chloride	12.6	1.06	mg/kg dry		10.4			18.5	20	
Matrix Spike (P6L2002-MS1)	Sourc	e: 6L19011-	-03	Prepared &	: Analyzed:	12/20/16				
Chloride	888	1.06	mg/kg dry	1060	10.4	82.5	80-120			
Batch P6L2101 - % Solids										
Blank (P6L2101-BLK1)				Prepared &	Analyzed:	12/21/16				
% Moisture	ND	0.1	%							
Duplicate (P6L2101-DUP1)	Sourc	ce: 6L19012-	-07	Prepared &	: Analyzed:	12/21/16				
% Moisture	24.0	0.1	%		25.0			4.08	20	

Project: Cotton Draw Station

2057 Commerce Street Midland TX, 79703 Project Number: AFE 20362 Project Manager: Curt Stanley

#### **Notes and Definitions**

R2	The RPD	exceeded the	accentance	limit

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

	Drew	Darron			
Report Approved By:			Date:	12/22/2016	

Brent Barron, Laboratory Director/Technical Director

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

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



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# Appendix C Certificate of Non-Exempt Waste Status (NMOCD Form C-138)

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

#### State of New Mexico Energy Minerals and Natural Resources

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

\*Surface Waste and Generate Documentation and Compart of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comparison of the Comp

\*Surface Waste Management Facility Operator and Generator shall maintain and make this Documentation available for Division inspection.

Form C-138

Revised August 1, 2011

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

REQUEST FOR AFFROVAL TO ACCEPT SOLID WASTE
1. Generator Name and Address:
Plains Pipeline 2530 State Hwy 214
Denver City, Texas 79323
2. Originating Site: Plains Cotton Draw Station
3. Location of Material (Street Address, City, State or ULSTR): ULT "E", Section 03, Township 26 S, Range 32 East, Lea County, New Mexico
4. Source and Description of Waste: Waste was generated due to a crude oil release at the Plains Cotton Draw Station.
Estimated Volume 5,500 yd3 / bbls Known Volume (to be entered by the operator at the end of the haul) yd3 / bbls
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS  I, Camille Bryant , representative or authorized agent for Plains Pipeline, LP do hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)
☐ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. Operator Use Only: Waste Acceptance Frequency ☐ Monthly ☐ Weekly ☐ Per Load
RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)
GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS
I, Camille Bryant representative for Plains Pipeline, LP do hereby certify that
representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.
5. Transporter: Various
OCD Permitted Surface Waste Management Facility
Name and Facility Permit #: Lea Landfill - NMOCD Permit #NM-1-0035
Address of Facility: MM 64, HWY 62/180 East, Carlsbud, NM 88220
Method of Treatment and/or Disposal:
☐ Evaporation ☐ Injection ☐ Treating Plant ☐ Landfarm
Waste Acceptance Status:  APPROVED  DENIED (Must Be Maintained As Permanent Record)
PRINT NAME: Saralyn Hall TITLE: Mkg. Nanager DATE: 6/1/16  SIGNATURE: Surface Waste Management Excility Authorized A cent
SIGNATURE: Simply Hall TELEPHONE NO.: 405-579-1187

## Appendix D Non-Hazardous Waste Manifests

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

#### LEA LAND, LLC

	1300 WEST MAIN S			IN <b>D, LLC</b> fa city, ok 73106 • F	PHONE (	(405) 236-4	1257	vir	1)
NOI	N-HAZARDOUS WASTE MANII	FEST NO	Э	114604	1. PA	AGEOF_	2. TRAI	ILER NO.	B-6
	3. COMPANY NAME	4. ADDRESS	S			5. I	PICK-UP DATE	E	
<b>G</b>	Lightz Libentie Fr.	2530 Sta	ate Hi	ighway 214					
uhedrastovuh				STATE			TNRCC I.D. NC	Э.	
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	7. NAME OR DESCRIPTION OF WASTE SHIPPI	ED:		<u></u>	8. CON No.	TAINERS Type	9. TOTAL QUANTITY		11. TEXAS WASTE ID #
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	14. IN CA			ENCY OR SPILI	L, <u>CO</u> 1	NTACT			
T_	NAME Kin Slaughter	PHONE NO	<del>)</del>			***************************************	24-HOUR	R EMERGEI	NCY NO.
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ת ה	Lea Land, LLC	,	Mile	Marker 64, U.S	3. Hwy	<sub>/</sub> 62/180	),	575-887	7-4048
D F I A			30 M	Ailes East of Car	rlsbad,	<u>, NM</u>			
S C P I	PERMIT NO.  WM-01-035 - New Mex	rico	[	20. COMMENTS					
O L S I A T	21.DISPOSAL FACILITY'S CERTIFIC. facility is authorized and permitted to receive such w	ATION: I He vastes.	ereby ce	ertify that the above de-	scribed w	/astes were	delivered to thi	is facility, tl	hat the

GENERATOR: COPIES 1 & 6

L Y

DISPOSAL SITE: COPIES 2 & 3

CELL NO.

TRANSPORTERS: COPIES 4 & 5

DATE

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

### LEA LAND, LLC

	1300 WEST MAIN ST	TREET • C	)KLAHO	OMA CITY, OK 73106 • 1	PHONE	(405) 236-4	1257	Mari	n
NOI	N-HAZARDOUS WASTE MANIF	EST	NO	114605	1. P.f	AGEOF	2. TRAII	LER NO.	m#1
-	3. COMPANY NAME	4. ADDR	RESS		-	5. I	PICK-UP DATE	Ξ	
$\mathbf{G}_{n,n}$	Plains Pipeline, LP PHONE NO.	2530	State I	Highway:214	Salver Carre				
1.00	(177) 444 4005	1		Para STATE : Nama dagan TX arabayan	-71	i	TNRCC I.D. NC	).	
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, E	Lea Land, LLC	ſ		lle Marker 64, U.S	•	•	),	575-88′	7-4048
D F   I A			30	Miles East of Car	rlsbad	<u>, NM</u>			
S C	PERMIT NO. WM-01-035 - New Mexi	ico		20. COMMENTS					
) L		····			-				
S I	21. DISPOSAL FACILITY'S CERTIFICATION facility is authorized and permitted to receive such was	ATION:	I Hereby	certify that the above de	escribed v	vastes were	delivered to thi	is facility, th	hat the
• • • • • • • • • • • • • • • • • • •	AUTHORIZED SIGNATURE		<del></del>	CELL NO.	<u> </u>	DATE	8/6/2016	TIM	AT:
	MnHM Jone	~ //		CELL NO.		DATE			
1		11/17	/					-110	1.25

TRANSPORTERS: COPIES 4 & 5

GENERATOR: COPIES 1 & 6

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#### LEALAND LIC

	1300 WEST MAIN STREET • OKLAH	IOMA CITY, OK 73106 • 1	PHONE (405	) 236-42	57 A C	WDY	າ ່				
NO	N-HAZARDOUS WASTE MANIFEST NO	114606	1. PAGE	OF	2. TRAII	LER NO.	2510				
<b>G</b>	3. COMPANY NAME 4. ADDRESS Platins Ripeline, LP PHONE NO. (575) 441-1099 Denver Cit	STATE	5. PICK-UP DATE  6/6/2018  ZIP 6. TNRCC I.D. NO.								
<b>E</b>	7. NAME OR DESCRIPTION OF WASTE SHIPPED:  a.Non-Regulated; Non Hazardous Waste	in A May :	8. CONTAI	NERS	9. TOTAL QUANTITY	10. UNIT W/Vol.	11. TEXAS WASTE ID				
E	b.  C.										
R A	dWT 44940 39180 40  12. COMMENTS OR SPECIAL INSTRUCTIONS:  PLAINS COTTON DRAW STATION ULT "E"	5 117		13. WASTE P		O.					
$\mathbf{T}_{x,a}$	14. IN CASE OF EMERGENCY OR SPILL, CONTACT  NAME PHONE NO 24-HOUR EMERGENCY NO Kin Slaughter  15.GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by pshipping 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,										
0											
R	PRINTED/TYPED NAME	SIGNATURE	SIGNATURE DATE								
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A	NAME: TRC	NAME:	NAME:								
N S	TEXAS I.D. NO.	TEXAS I.D. NO.	TEXAS I.D. NO.								
P	IN CASE OF EMERGENCY CONTACT: HUFT Stan	IN CASE OF EMER	IN CASE OF EMERGENCY CONTACT:								
O R	EMERGENCY PHONE (432) 559-3294		EMERGENCY PHONE:								
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E R S	Add III May were	576/2016···	PRINTED/TYPED NAME								
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L Y	•	file Marker 64, U.S Miles East of Car	• •								
	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  MONRALIS  ONRALIS	CELL NO.		DATE	ww.euru	TIM [	):30				
GENER?	ATOR: COPIES 1 & 6	ITE: COPIES 2 & 3			TRANSPO	RTERS: C	OPIES 4 & 5				

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

### LEA LAND, LLC

	1300 WEST MAIN STREET • OKLAF	HOMA CITY, OK 73106 •	PHONE (405) 23	6-4257	InDn	107.					
NO	N-HAZARDOUS WASTE MANIFEST NO	114607	1. PAGE(	OF 2. TRAI	ILER NO:7	D4-					
G.	PHONE NO.	≘ Highway 214 STATE types 2002TX	ZIP	P 6. TNRCC I.D. NO.							
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:	3 of 1825 to make the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same that the same tha	8. CONTAINER No.   Type		10. UNIT Wt/Vol.	11. TEXAS WASTE ID #					
···N	a Non-Regulated Non Hazardous Waste	किन्द्रमा कृष्टिकार्यसम्बद्धाः व्यवस्थानम् । य			1000	WASTEID					
E	b. c.	# 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4									
R	d. 40740 41580 30  12. COMMENTS OR SPECIAL INSTRUCTIONS:	7,920		13 WASTE	PROFILE NO	<u> </u>					
A	12. COMMENTS OR SPECIAL INSTRUCTIONS:  PLAINS COTTON DRAW STATION ULT "E"  13. WASTE PROFILE N										
<b>T</b>	14. IN CASE OF EMERGENCY OR SPILL, CONTACT  NAME PHONE NO 24-HOUR EMERGENCY  Kin Slaughter 575-887-4048										
О	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	ATURE DATE								
T	16. TRANSPORTER (1)	17.	17. TRANSPORTER (2)								
R A	NAME:	NAME:	NAME:								
N S	TEXAS I.D. NO.	TEXAS I.D. NO.	TEXAS I.D. NO.								
P	IN CASE OF EMERGENCY CONTACT: Kurt Stant	IN CASE OF EME	IN CASE OF EMERGENCY CONTACT:								
O R	EMERGENCY PHONE: (432) 559- 329()	EMERGENCY PH	EMERGENCY PHONE:								
T E	18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME PRINTED/TYPED NAME										
R S	Variation of										
		SIGNATURE									
AT	· I	•	Marker 64, U.S. Hwy 62/180, 575-887-4048  files East of Carlsbad, NM								
	PERMIT NO. WM-01-035 - New Mexico	20. COMMENTS									
	21.DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were defly at the facility, that the facility is authorized and permitted to receive such wastes.										
	AUTHORIZED SIGNATURE  DONORULE  ON POLICE  O	CELL NO.	DAT	ге 10,12010	(p 10	E .35					
GENER		SITE: COPIES 2 & 3		TRANSPO	ORTERS: CO	OPIES 4 & 5					

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 NON-HAZARDOUS WASTE MANIFEST 4609 1. PAGE OF 3. COMPANY NAME 4. ADDRESS 5. PICK-UP DATE $\mathbf{G}_{\cdot}$ \* Plains Pipeline: EPAR (1984) Alto Hells 2530 State Highway 214 6/6/2016 PHONE NO. 6. TNRCC I.D. NO. ZIP Denver City 79323 $\mathbf{E}$ 8. CONTAINERS 9. TOTAL 10. UNIT 11. TEXAS 7. NAME OR DESCRIPTION OF WASTE SHIPPED: QUANTITY Wt/Vol. No. Type WASTE ID # <sup>a</sup>Non-Regulated, Non-Hazardous Waster CM $\mathbf{E}$ R 12. COMMENTS OR SPECIAL INSTRUCTION 13. WASTE PROFILE NO. PLAINS COTTON DRAW STATION ULT "E" 708588 14. IN CASE OF EMERGENCY OR SPILL, CONTACT NAME PHONE NO 24-HOUR EMERGENCY NO. T 15.GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper O 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 R T 16 TRANSPORTER (1) 17. TRANSPORTER (2) R TRC NAME: NAME: A N TEXAS I.D. NO. TEXAS I.D. NO. S IN CASE OF EMERGENCY CONTACT: WITH Stanta P IN CASE OF EMERGENCY CONTACT: O **EMERGENCY PHONE:** R 18. TRANSPORTER (1): Acknowledgment of receipt of material 19. TRANSPORTER (2): Acknowledgment of receipt of material T E PRINTED/TYPED NAME / GAVY Collins PRINTED/TYPED NAME R SIGNATURE SIGNATURE\_ ADDRESS: PHONE: Lea Land, LLC Mile Marker 64, U.S. Hwy 62/180, 575-887-4048 D $\mathbf{F}$ 30 Miles East of Carlsbad, NM Α 20. COMMENTS PERMIT NO. S $\mathbf{C}$ WM-01-035 - New Mexico P I O $\mathbf{L}$ 21.DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the S I facility is authorized and permitted to receive such wastes. T A - 6/6/2016 · $\mathbf{L}$ Y AUTHORIZED SIGNATURE CELL NO. DATE

DISPOSAL SITE: COPIES 2 & 3

GENERATOR: COPIES 1 & 6

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 4610 NON-HAZARDOUS WASTE MANIFEST 1. PAGE 2. TRAILER NO. 3. COMPANY NAME 4. ADDRESS 5. PICK-UP DATE 2530 State Highway 214 second common second Plains Pipeline LP 6/6/2016 $\mathbf{G}^{-}$ CITY 6. TNRCC I.D. NO. Denver City er variotisk vitgenijoge partyre, og a jok vergejele jok je gregorije. E 8. CONTAINERS 9. TOTAL 10. UNIT 11. TEXAS 7. NAME OR DESCRIPTION OF WASTE SHIPPED: QUANTITY Wt/Vol. WASTE ID# , Non-Regulated, Non/Hazardous/Waste N E R 12. COMMENTS OR SPECIAL INSTRUCTIONS: 13. WASTE PROFILE NO. PLAINS COTTON DRAW STATION JULY "E" orana departuras i das hagray **7.08588**23 A IN CASE OF EMERGENCY OR SPILL, CONTACT 24-HOUR EMERGENCY NO. $\mathbf{T}$ 15.GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper O 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 R T 16. TRANSPORTER (1) TRANSPORTER (2) 17. R NAME: NAME: A N TEXAS I.D. NO. TEXAS I.D. NO. S IN CASE OF EMERGENCY CONTACT: HUT Stanky P IN CASE OF EMERGENCY CONTACT: O EMERGENCY PHONE: R 18. TRANSPORTER (1): Acknowledgment of receipt of material 19. TRANSPORTER (2): Acknowledgment of receipt of material Т E 20 PRENTED/TYPED NAME R SIGNATURE DATE SIGNATURE\_ ADDRESS: PHONE: Lea Land, LLC Mile Marker 64, U.S. Hwy 62/180, 575-887-4048 n F 30 Miles East of Carlsbad, NM A PERMIT NO. 20. COMMENTS S $\mathbf{C}$ WM-01-035 - New Mexico P I $\mathbf{o}$ 21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the S I facility is authorized and permitted to receive such wastes. T A Y AUTHORIZED SIGNATURE CELL NO. DATE

GENERATOR: COPIES 1 & 6

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

	1300 WEST MAIN STREET • OKLAHOM	1A CITY, OK 73 106 • 1	PHONE (4	405) 236-4	1257	uñr	1065	
NOI	N-HAZARDOUS WASTE MANIFEST NO	114620	1. PA(	GEOF_	2. TRAII	LER NO.	F カラ	
on Gigas e nacional Espara	3. COMPANY NAME 4. ADDRESS 2530 State Hi PHONE NO. (575) 444-1089	STATE	2	ZIP 6. T	PICK-UP DATE 6/6/2016 TNRCC I.D. NO	<b>6</b> %,		
Ň	7. NAME OR DESCRIPTION OF WASTE SHIPPED:  a.Non-Regulated, Non Hazardous Waste			TAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #	
E	b							
R A	R  12. COMMENTS OR SPECIAL INSTRUCTIONS:  PLAINS COTTON DRAW STATION ULT: "E"  13. WASTE PROFILE NO.							
<b>T</b> (%)	14. IN CASE OF EMERGENCY OR SPILL, CONTACT  NAME PHONE NO 575-887-4048  24-HOUR EMERGENCY NO.							
О	15.GENERATOR'S CERTIFICATION: I Hereby declare that shipping name and are classified, packed, marked, and labeled, and are in al international and national government regulations, including applicable states.	all respects in proper con	ndition for	r transport 1	by highway acco	cording to an	nnlicable	
R	PRINTED/TYPED NAME	SIGNATURE					DATE	
T R A N S P O	16. TRANSPORTER (1)  NAME:  TEXAS I.D. NO.  IN CASE OF EMERGENCY CONTACT: (432) 559-329  EMERGENCY PHONE:		RGENCY		PRTER (2)	Miterathicatourumpeed		
R T E R S	18. TRANSPORTER (1): Acknowledgment of receipt of material  PRINTED/TYPED NAME  DATE  DATE	19. <b>TRANSPOR</b> 20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR  20: TRANSPOR	RTER (2 NAME_			eceipt of ma	iterial	
D F		e Marker 64, U.S Miles East of Car	•		PHONE:	575-887	7-4048	
PI	PERMIT NO. WM-01-035 - New Mexico	20. COMMENTS						
S I	21.DISPOSAL FACILITY'S CERTIFICATION: I Hereby co facility is authorized and permitted to receive such wastes.					•	at the	
- Y	AUTHORIZED SIGNATURE  AUTHORIZED SIGNATURE  AUTHORIZED SIGNATURE	CELL NO.		DATE		тімі 4'(	E C	

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

	1300 WEST MAIN STREET • OKLAHO	MA CITY, OK 73106 •	PHONE (405	) 236-425	$^{7}$ $A\Omega$	hons	5		
NO	N-HAZARDOUS WASTE MANIFEST NO	114624	1. PAGE	OF	_ 2. TRAII	LER NO.	254		
G*	PHONE NO. (575) 441–1099	STATE	ZIP	6. TN	CK-UP DATE 6/7/2016 RCC I.D. NO	} ::			
E	7. NAME OR DESCRIPTION OF WASTE SHIPPED:		8. CONTAI		9. TOTAL	10. UNIT	11. TEXAS		
N	a. Non-Regulated, Non-Hazardous-Waste	artisetti olek görtesados van kang	No.	Type (	QUANTITY	Wt/Vol.	WASTE ID #		
	b. 4154D				**				
E	c.								
R	37,700 42,780 39	.840							
A	12. COMMENTS OF SPECIAL INSTRUCTIONS: PLAINS COTTON DRAW STATION ULT "E"	rangata in magama at ang at a	0/8/		3. WASTE P		D. <b>708588</b>		
	14. IN CASE OF EMER NAME Slaughter 140 140 140 140 140 140 140 140 140 140		L, CONTA	ACT	24-HOUR	EMEDGEN	ICV NO		
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0	15.GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by 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								
R	PRINTED/TYPED NAME	SIGNATURE				]	DATE		
T R	16. TRANSPORTER (1)	17.	TRAN	SPOR'	TER (2)				
A N	NAME:	NAME:							
S P	TEXAS I.D. NO. Kurt Stanle IN CASE OF EMERGENCY CONTACT: (432) 559-32	• •	RGENCY CC	NTACT:					
O R	EMERGENCY PHONE:	EMERGENCY PHO	OF EMERGENCY CONTACT: ENCY PHONE:						
T E	18. TRANSPORTER (1): Acknowledgment of receipt of materia			Acknowle	edgment of re	ceipt of ma	terial		
R S	PRINTED/TYPED NAME M- Che'Ler By	7/20PRENTED/TYPED	NAME	***************************************					
	SIGNATURE Huge Choney DATE	SIGNATURE			·	TE			
D F	i .	le Marker 64, U.S Miles East of Ca	-	,	PHONE:	575-887	-4048		
I A S C P I	PERMIT NO.  WM-01-035 - New Mexico	20. COMMENTS	3						
O L S I A T	21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby facility is authorized and permitted to receive such wastes.	certify that the above de	scribed waste	s were de	livered to this	s facility, the	at the		
LY	AUTHORIZED SIGNATURE LONG COLU	CELL NO.	of Bandhampoo niifin	DATE****	6/7/2016	8.	55		
GENER	ATOR: COPIES 1 & 6 PISPOSAL SIT	TE: COPIES 2 & 3		***************	TRANSPO	RTERS: CO	OPIES 4 & 5		

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

			, ,	UDTITU					
NO		114625	1. PAGE OF	2. TRAILER NO. #D8					
<b>G</b> ,	3. COMPANY NAME 4. ADDRESS Plains Pipeline EP 2530 State Hi	ghway-214 so so		CK-UP DATE 8/7/2016					
<b>. E</b>	PHONE NO. CITY Denver City	STATE	ZIP 6. TN	RCC I.D. NO.					
_	7. NAME OR DESCRIPTION OF WASTE SHIPPED:	ül	8. CONTAINERS No. Type (	9. TOTAL 10. UNIT 11. TEXAS QUANTITY W/Vol. WASTE ID #					
N	a Non-Regulated, Non Hazardous Waster Communication	erte par gapat p <b>araga</b> t ar en estados.	zervi e Cide						
E	b. 38940								
i tara	dWing 1007 no and 24								
R	34,720 34,020 31,	580							
A	12. COMMENTS OR SPECIAL INSTRUCTIONS: PLAINS COTTON DRAW STATION ULT "E"	2 1497	. 1	3. WASTE PROFILE NO.					
	14. IN CASE OF EMERG		L, CONTACT						
- <b>T</b>	NAME Kin Slaughter 5/5-887-4048			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)	17.	TRANSPOR'	TER (2)					
R A	NAME:	NAME:							
N S	TEXAS I.D. NO.	TEXAS I.D. NO.							
P	IN CASE OF EMERGENCY CONTACT: (432), 559-329	3 IN CASE OF EMER	RGENCY CONTACT:						
O R	EMERGENCY PHONE:	EMERGENCY PHO							
T	18. TRANSPORTER (1): Acknowledgment of receipt of material		• •	edgment of receipt of material					
E R	PRINTED/TYPED NAME TVANN CONTO 8/7	<b>2016</b> NTED/TYPED I	NAME						
S	SIGNATURE DATE	SIGNATURE		DATE					
	ADDRESS:			PHONE:					
F	-	Marker 64, U.S Iiles East of Car	•	575-887-4048					
A C		20. COMMENTS	isuau, inivi						
I L	WM-01-035 - New Mexico								
1	21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby confacility is authorized and permitted to receive such wastes.	ertify that the above des	scribed wastes were de	livered to this facility, that the					
Y	AUTHORIZED SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SIGNATURE  MACHINE SI	CEEL NO.	DATÉ	8/7/2018:** TIME					

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

	1300 WEST MAIN STREET * OKLAHOM.		10NE (403) 230-4	1257	WU)	·		
NO		114626	1. PAGEOF	2. TRAIL	ER NO.	)-1		
Ğ	3. COMPANY NAME Plains Pipeline LP	ghwaya2.14%/pp.qark	5.	PICK-H7/2016	4			
ريد <b>E</b>	TYYOUT WO	STATE X	79 <b>323</b> 6.	TNRCC I.D. NO.				
e. Ougu	7. NAME OR DESCRIPTION OF WASTE SHIPPED: Non-Regulated, Non-Hazardous Waste (1986)	i i	B. CONTAINERS	9. TOTAL QUANTITY		. TEXAS ASTE ID #		
N	35,580							
E	b.							
<b>L</b>	c.					*******		
R	36860 3898D 30	RIOD						
M	12. COMMENTS OR SPECIAL INSTRUCTIONS:  PLAINS COTTON DRAW STATION ULT "E"	Content one of the Lord Supple of	Q 2D	13. WASTE PR		08588 <sub>%</sub> ,		
	14. IN CASE OF EMERG	ENCY OR SPILL	, CONTACT					
T	NAMESlaughter - 578-8679-4048	legg.		24-HOUR I	EMERGENCY	NO.		
<b>O</b>	15.GENERATOR'S CERTIFICATION: I Hereby declare that shipping name and are classified, packed, marked, and labeled, and are in al international and national government regulations, including applicable states.	l respects in proper cond	ition for transport	by highway accor	rding to applica	able		
R	PRINTED/TYPED NAME	SIGNATURE			DAT	Έ		
T R	16. TRANSPORTER (1)	17.	TRANSPO	RTER (2)		NAMES OF THE PERSONS ASSESSMENT		
A	NAME:	NAME:						
N S	TEXAS I.D. NO. Kurt Stanley IN CASE OF EMERGENCY CONTACT: (432) 559-329	TEXAS I.D. NO.						
P O	and of Emelocitor commen.	IN CASE OF EMERC		T:				
R T	EMERGENCY PHONE:  18. TRANSPORTER (1): Acknowledgment of receipt of material	EMERGENCY PHON 19. TRANSPORT	ER (2): Ackno			1		
E R	PRINTED/TYPED NAME NARCIZO MARIN 811	<b>20%</b> nted/typed n	AME	***************************************				
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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

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

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### LEA LAND, LLC 1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257 NON-HAZARDOUS WASTE MANIFEST 3. COMPANY NAME 4. ADDRESS 5. PICK-UP DATE 2530 State Highway 214 Plains Pipeline: $\mathbf{G}$ ~ 6/7/2016~ CITY CITY STATE ZIP Denver City TX 79323 6. TNRCC I.D. 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T 15.GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper 0 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 R TRANSPORTER (1) 16. T 17. TRANSPORTER (2) R NAME: NAME: A N TEXAS I.D. NO. TEXAS I.D. NO. Kurt Stanley S (432) 559-3293 IN CASE OF EMERGENCY CONTACT: P IN CASE OF EMERGENCY CONTACT:

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30 Miles East of Carlsbad, NM PERMIT NO. WM-01-035 - New Mexico

18. TRANSPORTER (1): Acknowledgment of receipt of material

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19. TRANSPORTER (2): Acknowledgment of receipt of material

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.

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### LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257 NON-HAZARDOUS WASTE MANIFEST 14631 NO 1. PAGE OF 3. COMPANY NAME 4. ADDRESS 5. PICK-UP DATE 2530 State Highway 214  $\mathbf{G}$ Plains Pipeline, LP The Community of the Property of the Prope 6/7/2016 PHONE NO. CITY STATE 6. TNRCC I.D. NO. (575):444-1099:sa ery oldek italianisiifik Denver City and a TX are properly 79323  $\mathbf{E}$ 7. NAME OR DESCRIPTION OF WASTE SHIPPED: 8. CONTAINERS 9. TOTAL 10. UNIT 11. TEXAS QUANTITY Wt/Vo1. WASTE ID# Non-Regulated, Non Hazardous Waste  $\mathbf{E}$ R 12. COMMENTS OR SPECIAL INSTRUCTIONS: 13. WASTE PROFILE NO. PLAINS COTTON DRAW STATION ULT "E" 708588 A IN CASE OF EMERGENCY OR SPILL 24-HOUR EMERGENCY NO.  $\mathbf{T}$ 15.GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper O 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 R T 16. TRANSPORTER (1) TRANSPORTER (2) 17. TRC R NAME: NAME: A N TEXAS I.D. NO. TEXAS I.D. NO. Kurt Stanley S (432) 559-3293 IN CASE OF EMERGENCY CONTACT: P IN CASE OF EMERGENCY CONTACT: O EMERGENCY PHONE EMERGENCY PHONE: R 18. TRANSPORTER (1): Adknowledgment of receipt of material 19. TRANSPORTER (2): Acknowledgment of receipt of material T  $\mathbf{E}$ 2018 NTED/TYPED NAME R SIGNATURE \ ADDRESS: PHONE: Lea Land, LLC Mile Marker 64, U.S. Hwy 62/180, 575-887-4048 D F 30 Miles East of Carlsbad, NM A PERMIT NO. 20 COMMENTS S C WM-01-035 - New Mexico P Ι o 21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the S facility is authorized and permitted to receive such wastes. T Y AUTHORIZED SIGNATURE

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### LEA LAND DISPOSAL SITE NEW MEXICO

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

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DATE 6/8/2016

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GENERATOR: COPIES 1 & 6

₱18POSAL SITE: COPIES 2 & 3

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

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NO	N-HAZARDOUS WASTE MANIFEST NO	114641	1. PAGE	OF 2. TRA	ILER NO.	<sup>+</sup> 02			
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0	shipping name and are classified, packed, marked, and labeled, and are in a international and national government regulations, including applicable sta	Ill respects in proper cor	idition for transp	ort by highway ac	cording to ar	nlicable			
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D F I A		Ailes East of Car	rlsbad, NM						
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SI	21.DISPOSAL FACILITY'S CERTIFICATION: I Hereby of facility is authorized and permitted to receive such wastes.	ertify that the above de	scribed wastes we	ere delivered to th	is facility, th	at the			
A T L Y	AUTHORIZED SIGNATURE	en en en en en en en en en en en en en e	Singuingage is the fit to the second	<sub>TE</sub> 6/8/2016	sg.al.				
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GENER	ATOR: COPIES 1 & 6	: COPIES 2 & 3 )		TRANSPO	ORTERS: CO	OPIES 4 & 5			

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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 NON-HAZARDOUS WASTE MANIFEST 1. PAGE 3. COMPANY NAME 4. ADDRESS 5. PICK-UP DATE Plains Pipeline, LP 2530 State Highway 214 6/8/2016  $\mathbf{G}$ PHONE NO. 6. TNRCC I.D. NO. CHY STATE ZIP Denver City  $\mathbf{E}$ 8. CONTAINERS 9. TOTAL 10. UNIT 7. NAME OR DESCRIPTION OF WASTE SHIPPED: 11. TEXAS Ng. Type **OUANTITY** Wt/Vol. WASTE ID# Non-Regulated, Non Hazardous Waste N R 13. WASTE PROFILE NO. PLAINS COTTON DRAW STATION ULT "E" A IN CASE OF EMERGENCY OR SPILL, CONTACT 'AMESlaughter BY8188194048 24-HOUR EMERGENCY NO.  $T^{2}$ aller stance in the property of the 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 0 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 R T TRANSPORTER (1) 16. 17. TRANSPORTER (2) R NAME: NAME: A N TEXAS I.D. NO. TEXAS I.D. NO. Kurt Stanley S (432) 558-3293, in case of emergency contact: P IN CASE OF EMERGENCY CONTACT: O **EMERGENCY PHONE: EMERGENCY PHONE:** R 18. TRANSPORTER (1): Acknowledgment of receipt of material 19. TRANSPORTER (2): Acknowledgment of receipt of material T TRCIZO MARINE 2016 NTED/TYPED NAME\_\_\_\_  $\mathbf{E}$ R S SIGNATURE ADDRESS: PHONE: Lea Land, LLC Mile Marker 64, U.S. Hwy 62/180, 575-887-4048 D  $\mathbf{F}$ 30 Miles East of Carlsbad, NM Ι Α PERMIT NO. 20. COMMENTS S C WM-01-035 - New Mexico P Ι O 21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the I S facility is authorized and permitted to receive such wastes. T A L Y AUT#ORIZED SIGNATURE DATE 6/8/2016

TRANSPORTERS: COPIES 4 & 5

GENERATOR: COPIES 1 & 6

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

### LEA LAND, LLC

	1300 WEST MAIN ST	reet • OKLAHOM	IA CITY, OK 73106 • 1	PHONE (4	05) 236-4	$^{257}$ $\triangle$ 0	um	<b>)</b>	
NOI	N-HAZARDOUS WASTE MANIF	EST NO	114643	1. PAG	GEOF_	2. TRAII	LER NO.	#257	
G	3. COMPANY NAME Plains Pipeline, LP	4. ADDRESS 2530 State Hi	ighway 214	40 - 20	5. P	PICK-UP DATE 6/8/2016	) Ner		
÷	PHONE NO. (575) 441-1099	СПҮ Denver City	STATE TX	793	1P 6. T	TNRCC I.D. NO	).	W	
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D F	Lea Land, LLC		e Marker 64, U.S Miles East of Ca	-		),	575-88′	7-4048	
I A S C P I D L	PERMIT NO.  WM-01-035 - New Mexi		20. COMMENTS				111111111111111111111111111111111111111	***************************************	
S I A T	21.DISPOSAL FACILITY'S CERTIFIC A facility is authorized and permitted to receive such wa	ATION: I Hereby castes.	ertify that the above de	escribed wa	istes were	delivered to this	s facility, th	hat the	
<b>Y</b> [	AUTHORIZED SIGNATURE	17 )	GELL NO	gal (kmyrli) sites (	DATE	6/8/2016	ТІМ	.3D	

TRANSPORTERS: COPIES 4 & 5

GENERATOR: COPIES 1 & 6

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 114644 NON-HAZARDOUS WASTE MANIFEST 1. PAGE 3. COMPANY NAME 4. ADDRESS 5. PICK-UP DATE Plains Ripeline, LP 2530 State HighWay 214  $\mathbf{G}^{*}$ 6/8/2016 6. TNRCC I.D. NO. 0(575):44:1+1099:pp.c.///sessessessessesses/4/ ્રક્ષેત્ર છું જાણ કરિકાનો ક્ષેત્ર કરિકાનો કરાવા કરેલા છે. જો માત્ર કર્યા છે છે છે છે છે છે છે છે છે છે છે છે છ E 8. CONTAINERS 9. TOTAL 10. UNIT 11 TEXAS 7. NAME OR DESCRIPTION OF WASTE SHIPPED: **OUANTITY** Wt/Vol. WASTE ID # ੍<mark>ਰ Non-Regulated, Non Hazardous Waste</mark> N  $\mathbf{E}$ R 12. COMMENTS OR SPECIAL INSTRUCTIONS: 13. WASTE PROFILE NO. PLAINS COTTON DRAW STATION ULT "E" A 14. IN CASE OF EMERGENCY OR SPILL, CONTACT 24-HOUR EMERGENCY NO. **T** 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 0 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 R T TRANSPORTER (1) 16. TRANSPORTER (2) 17. R NAME: NAME: A N TEXAS I.D. NO. Kurt Stanley TEXAS I.D. NO. S (432) 559-3298 TN CASE OF EMERGENCY CONTACT: IN CASE OF EMERGENCY CONTACT: P O EMERGENCY PHONE: **EMERGENCY PHONE:** R 18. TRANSPORTER (1): Acknowledgment of receipt of material 19. TRANSPORTER (2): Acknowledgment of receipt of material T TE Codence BIB 2018 NTED/TYPED NAME  $\mathbf{E}$ R DATE SIGNATURE DATE ADDRESS: PHONE: Lea Land, LLC Mile Marker 64, U.S. Hwy 62/180, 575-887-4048 D  $\mathbf{F}$ 30 Miles East of Carlsbad, NM Ι A PERMIT NO. 20. COMMENTS

GENERATOR: COPIES 1 & 6

AUTHORIZED SIGNATURE

WM-01-035 - New Mexico

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DISPOSAL SITE: COPIES 2 & 3

21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the

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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

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P	IN CASE OF EMERGENCY CONTACT: (432) 559-328	3 IN CASE OF EME	RGENCY CONTAC	T:						
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o	15.GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proposhipping 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, LL									
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o	15.GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, an international and national government regulations, i	and labeled, and are in a	all respects in proper cor	ondition for	or transport b	by highway acco	ording to an	nnlicable		
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E R	PRINTED/TYPED NAME HECTOR JUARE 2019	20%NTED/TYPED	NAME			And the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t				
S	SIGNATUR STATES DATE	SIGNATURE		DA	ATE					
) F		e Marker 64, U.S Miles East of Car	•	0, PHONE:	575-887	'-4048				
A S C P I D L	PERMIT NO. WM-01-035 - New Mexico	20. COMMENTS				V 1 2 V 1				
5 I 5 T	21.DISPOSAL FACILITY'S CERTIFICATION: I Hereby c facility is authorized and permitted to receive such wastes.	ertify that the above des	scribed wastes wer	e delivered to this	s facility, th	at the				
. <b>Y</b>	AUTHORIZED SIGNATURE	CELL NO.	CODATE	6/9/2016		е 30				

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

			HOMA CITY, OK 73106 • PHONE (405) 236-4257							
	1300 WEST MAIN ST	FREET • OKLAHO	MA CITY, OK 73106 • P	HONE (405) 236-4	257	PASH	llo			
NO	N-HAZARDOUS WASTE MANIF	EST NO	114663	1. PAGEOF	2. TRAIL	ER NO	8			
G	3. COMPANY NAME Plains-Pipeline, LPase are perfections	4. ADDRESS State	Highway 214	5. I	PICK-UP DATE 8/9/2016	,				
E	PHONE NO. (575) 441–1099	CITY Denver City	STATE	ZIP 6. 1	TNRCC I.D. NO.					
	7. NAME OR DESCRIPTION OF WASTE SHIPPE			8. CONTAINERS No.   Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #			
N	a. Non-Regulated, Non Hazardous Was	ite was same	esperie de la recenta de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição de la composição d	and a se <b>CM</b> e						
E	<ul><li>40920</li></ul>									
	c.									
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o	15.GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by pro-									
R	PRINTED/TYPED NAME		SIGNATURE			]	DATE			
T	16. TRANSPORTER (1)	17.	TRANSPO	RTER (2)						
R A	NAME:		NAME:							
N S	TEXAS I.D. NO.	··· Kurt Stanle	TEXAS I.D. NO.							
P	IN CASE OF EMERGENCY CONTACT:	(432) 559-32	23 in case of emer	GENCY CONTAC	T:					
O R	EMERGENCY PHONE:	***************************************	EMERGENCY PHONE:							
T	18. TRANSPORTER (1): Acknowledgment of	f receipt of material	19. TRANSPOR	IER (2): Acknow	wledgment of rec	eipt of ma	terial			
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S	. // / //////	SIGNATURE DATE								
S.	SIGNATURE / Winner Mary	DATE	SIGNATURE		DA	TE .				
S.	CH CHIV	ADDRESS:			PHONE:	TE.				
o F	Lea Land, LLC	address:	le Marker 64, U.S	. Hwy 62/180	PHONE:	75-887	-4048			
D F	Lea Land, LLC	address:	le Marker 64, U.S Miles East of Car	. Hwy 62/180	PHONE:		-4048			
D F I A S C P I	CH CHIV	ADDRESS: Mi	le Marker 64, U.S	. Hwy 62/180	PHONE:		-4048			
D F I A S C P I D L	Lea Land, LLC PERMIT NO.	ADDRESS: Mi. 30	le Marker 64, U.S Miles East of Car 20. COMMENTS	. Hwy 62/180 Isbad, NM	PHONE: 5	75-887				

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

						سالات	<u> </u>			
NO	N-HAZARDOUS WASTE MANII	FEST NO	114664	1. PAGEOF_	2. TRAIL	ER NO.	: 173			
G	3. COMPANY NAME Plains Pipeline: LP	4. ADDRESS 2530 State I	Highway 214	5. P.	CK-UP DATE 6/9/2016	** <sub>1</sub>				
<b>E</b>	PHONE NO. (575) 444+1089	CITY	STATE ZIP 6. TNRCC I.D. NO.							
N	7. NAME OR DESCRIPTION OF WASTE SHIPPI Non-Regulated, Non Hazardous Was a.	te		8. CONTAINERS No Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #			
E	b. 36,440 c.									
R	40,0W 385	180	3878)							
<b>A</b>	12. COMMENTS OR SPECIAL INSTRUCTIONS: PLAINS COTTON DRAW/STATION		Tes		13. WASTE PF		O. <b>708588</b>			
T ·		ASE OF EMER	GENCY OR SPIL 8#	L, CONTACT	24-HOUR I	EMERGEN	NCY NO.			
O	15.GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by project 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, LI									
R	PRINTED/TYPED NAME		SIGNATURE	**************************************		]	DATE			
T R A N S P O R	16. TRANSPORTER (1) NAME: TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledgment o		EMERGENCY PHO		:					
T E R S	PRINTED/TYPED NAME NOC S	ata	SIGNATURE	NAME						
		ADDRESS:			PHONE:	***************************************				
D F	Lea Land, LLC	Mil	e Marker 64, U.S Miles East of Car	•		575-887	-4048			
	PERMIT NO.  WM-01-035 - New Mexi	co	20. COMMENTS							
S I	21.DISPOSAL FACILITY'S CERTIFICATE  Cacility is authorized and permitted to receive such was	ATION: I Hereby astes.	certify that the above des	scribed wastes were d	elivered to this	facility, the	at the			
LY	AUTHORIZED SIGNATURE		CELL NO.	DATE	6/9/2016	TIMI	36			

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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

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NO	N-HAZARDOUS WASTE MANIFEST NO	114665	1. PAGEOF_	2. TRAILER NO.	04-
G	3. COMPANY NAME 4. ADDRESS Plains Pipeline, LP 2530 State h	lighway 214	5. PI	CK-UP DATE	
	PHONE NO.	STATE	ZIP 6 T	NRCC I.D. NO.	
E	(575) 441-1099 Denver City	ing and approximately and <b>TX</b> constantly and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	79323		
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:		8. CONTAINERS Ng. Type.	9. TOTAL 10. UNIT	11. TEXAS WASTE ID #
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	12. COMMENTS OR SPECIAL INSTRUCTIONS: PLAINS COTTON DRAW STATION ULT "E"	ostrikumi e zveten i i ingili veti 🕽 i slovati. 🐔	1	13. WASTE PROFILE N	
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_	14. IN CASE OF EMERONAME. PHONE NO		L, CONTACT	24-HOUR EMERGE	NOVNO
Lose	KinsSlaughter and a manager of the control of 575-887-404	<b>3</b> %.		24-HOUR EMERGE	NÇY NO.
O	15.GENERATOR'S CERTIFICATION: I Hereby declare that shipping name and are classified, packed, marked, and labeled, and are in international and national government regulations, including applicable st	all respects in proper cor	ndition for transport by	y highway according to ar	nnlicable
R	PRINTED/TYPED NAME	SIGNATURE			DATE
T R	16. TRANSPORTER (1)	17.	TRANSPOR	TER (2)	
A	NAME:	NAME:			
N S	TEXAS I.D. NO.	TEXAS I.D. NO.			
P	IN CASE OF EMERGENCY CONTACT: (432),558-32	. I. Sa	RGENCY CONTACT	:	
O R	EMERGENCY PHONE:	EMERGENCY PHO			
T E	18. TRANSPORTER (1): Acknowledgment of receipt of material		` ,	ledgment of receipt of ma	aterial
R	PRINTED/TYPED/NAME Andres Lunings	20 PONTED/TYPED	NAME		
S	SIGNATURAL DATE	SIGNATURE		DATE	
	ADDRESS:	1		PHONE:	
D F		Marker 64, U.S	•	575-887	7-4048
I A	PERMIT NO.	Miles East of Car	rlsbad, NM		
S C P I	WM-01-035 - New Mexico	20. COMMENTS			
O L S I	21.DISPOSAL FACILITY'S CERTIFICATION: I Hereby	Pertify that the above do	coribad wastes were d	olivored to this E. Ilie. 4	-441
A T	facility is authorized and permitted to receive such wastes.	with that the above des	socioca wastes were di	chivered to this facility, th	iai ine
LY	AUTHORIZED SIGNATURE	CELL NO.	DATE	6/9/2016 TIM	E _
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MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

			AND, LLC				
	1300 WEST MAIN S	TREET • OKLAHO	OMA CITY, OK 73106 • 1	PHONE (405) 236-4	4257	Ma	rin
NO	N-HAZARDOUS WASTE MANII		114666	1. PAGEOF	2. TRAIL	LER NO.	<u>И-1</u>
Ğ	3. COMPANY NAME Plains Pipeline LP	4. ADDRESS 2530 State I	Highways214	5. I	PICK-UP DATE 6/9/2016	) W.S.	
E	PHONE NO. 20(575):441-4099/2004/2005/2005/2005/2005/2005/2005/2005	CITY Denver City	STATE A	79323: 6. 1	TNRCC I.D. NO	).	
i a z angen	7. NAME OR DESCRIPTION OF WASTE SHIPPI		and the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section	8. CONTAINERS No.   Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
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	12. COMMENTS OR SPECIAL INSTRUCTIONS PLAINS COTTON DRAW STATION		J FIW	one in the second the second to the second	13. WASTE PI		
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. <b>T</b> .7.7	14. IN CA	1SE OF EMER 578189240	RGENCY OR SPIL 18	L, CONTACT	24-HOUR	EMERGEN	VCY NO.
o	15.GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, an international and national government regulations, in	nd labeled, and are in	all respects in proper co	ondition for transport	by highway acco	ording to an	nnlicable
R	PRINTED/TYPED NAME		SIGNATURE			]	DATE
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A	NAME:		NAME:				
N S P	TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT:	Kurt Stanle	₹ 61 Aug.	TO CONTON CONTON			
O	EMERGENCY PHONE:	A CONTRACTOR OF SOME	293 IN CASE OF EME		T:		
R T	18. TRANSPORTER (1): Acknowledgment of	of receipt of material	1 19 TRANSPOR	RTER (2): Acknow	wledgment of re	ceipt of ma	iterial
E R	PRINTED/TYPED NAM WAKCIZ M	14RIN 81	20 20 RENTED/TYPED	NAME			·
S	PRINTED/TYPED NAMWARCIZA	<b>DATE</b>	_ SIGNATURE		DA	ATE	
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A T	21.DISPOSAL FACILITY'S CERTIFIC. facility is authorized and permitted to receive such w	ATION: I Hereby vastes.	certify that the above de	escribed wastes were	delivered to this	facility, the	at the
LY	1 Ma-la. 11 11 1+.	on vacquagae gropes:	or GELLANO: TOUROS.	DATE	· 6/9/2016	ТІМІ	E 40

# LEA LAND DISPOSAL SITE NEW MEXICO MILE MARKER #64 US HWY 62/180 · 30 MILES EAST OF CARLSBAD, NM · PHONE (575) 887-4048

		1 02, 100 JO MILDE	SERIOT OF CHICEDEN	10, 14141 - 1	TIONE (3	73) 667-4048		
	1300 WEST MAIN S		AND, LLC MA CITY, OK 73106 ·	PHONE (4	405) 236-4	25 () <	411	b
NO	N-HAZARDOUS WASTE MANII	FEST NO	114684	1. PA	GEOF	2. TRAI	LER NO.	£8
- <b>G</b>	3. COMPANY NAME Plains Pipeline: LPassacce acceptance and a company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the compan	4. ADDRESS 2530 State I	lighway 214	suadia regida.	5, I	PICK-UP DATE 6/10/2016		
e (postuje T <b>E</b> stos	PHONE NO.	CITY	STATE		ZIP 6. T 323	NRCC I.D. NO	). \	
egger .	7. NAME OR DESCRIPTION OF WASTE SHIPP a Non-Regulated; Non-Hazardous Wa			8. CON No.	TAINERS Type	9. TOTAL QUANTITY	10.\UNIT Wt/Vol.	11. TEXAS WASTE ID #
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R	12. COMMENTS OR SPECIAL INSTRUCTIONS	<u>10 3</u>	5,620			<u></u>	THE PERSON NAME OF	
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N S		Kurt Stanley						
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	Lea Land, LLC	ADDRESS:	e Marker 64, U.S	·	60/100	PHONE:	<i>575</i> 007	7 4040
) F	Dea Dand, EEC		Miles East of Ca	-		),	575-887	-4048
A S C P I	PERMIT NO. WM-01-035 - New Mex		20. COMMENTS					
) L 	21.DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such w	ATION: I Hereby	certify that the above de	scribed wa	astes were	delivered to thi	s facility, th	at the
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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

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NO	N-HAZARDOUS WASTE MANU	TEST NO	114685	1. PAGEOF_	2. TRAILER NO	257
	3. COMPANY NAME	4. ADDRESS		5. PI	CK-UP DATE	
, <b>G</b> ; -	Plains Pipeline, LP		Highway 214	salah salah Janas Jayan Sa	6/10/2016	
	PHONE NO.	CITY	STATE	ZIP 6. TN	NRCC I.D. NO.	
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T	16. TRANSPORTER (1)		17.	TRANSPOR	TER (2)	
R	NAME:		NAME:			
A N			NAME.			
S	TEXAS I.D. NO.	Kurt Stanl	TEXAS I.D. NO.			
P	IN CASE OF EMERGENCY CONTACT:	(432) 559-3	293 IN CASE OF EME	RGENCY CONTACT	:	
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n n	Lea Land, LLC	M	ile Marker 64, U.S	S. Hwy 62/180,	575-8	387-4048
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	21.DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such w	ALLOIN: I Hereb astes.	by certify that the above de	escribed wastes were d	envered to this facilit	y, that the
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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 NON-HAZARDOUS WASTE MANIFEST 1. PAGE 3. COMPANY NAME 4. ADDRESS 2530 State Highway: 214 Plains Pipeline, LP  $\mathbf{G}$ CITY STATE ZIP ZIP 79323 6. TNRCC I.D. NO. E 8. CONTAINERS 9. TOTAL 10. UNIT 11 TEXAS 7. NAME OR DESCRIPTION OF WASTE SHIPPED: Non-Regulated, Non Hazardous Waste **QUANTITY** Wt/Vol. WASTE ID # N . a propaga. Tigatan darah dakan aparah bili pangan pangan da  $\mathbf{E}$ R 12. COMMENTS OR SPECIAL INSTRUCTIONS: 13. WASTE PROFILE NO. PLAINS COTTON DRAW STATION ULT "E" A 14. IN CASE OF EMERGENCY OR SPILL, CONTACT 24-HOUR EMERGENCY NO. T 15.GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper 0 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 R  $\mathbf{T}$ 16. TRANSPORTER (1) TRANSPORTER (2) 17. - PATRONA R NAME: NAME: A N TEXAS I.D. NO. TEXAS I.D. NO. Kurt Stanley S (432) 559-3293 in case of emergency contact: P IN CASE OF EMERGENCY CONTACT: O EMERGENCY PHONE: **EMERGENCY PHONE:** R 18. TRANSPORTER (1): Acknowledgment of receipt of material 19. TRANSPORTER (2): Acknowledgment of receipt of material T E PRINTED/TYPED NAME\_ R SIGNATURE DATE SIGNATURE\_ DATE ADDRESS: PHONE: Lea Land, LLC Mile Marker 64, U.S. Hwy 62/180, 575-887-4048 D F 30 Miles East of Carlsbad, NM I PERMIT NO. 20. COMMENTS S C WM-01-035 - New Mexico P I O 21.DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the I facility is authorized and permitted to receive such wastes. T Y AUTHORIZED SIGNATURE DATE 6/10/2016

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

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S	. // 1//	DATE	SIGNATURE		D	ATE	
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) F	Lea Land, LLC		Marker 64, U.S	-	80,	575-887	7-4048
IA		30 M	liles East of Car	rlsbad, NM			
S C	PERMIT NO. WM-01-035 - New Mexi		20. COMMENTS				
D L   S I   T	21.DISPOSAL FACILITY'S CERTIFICATE facility is authorized and permitted to receive such was	ATION: I Hereby coastes.	ertify that the above des	scribed wastes w	ere delivered to th	is facility, th	nat the
• • • • • • • • • • • • • • • • • • •	ALTHOPIZED SIGNATURE		CELL NO		TE	TIL	CE :
ĺ	Manton Manzall	19 ,	CELL NO.	is a marked from the PA	<sup>TE</sup> 6/10/2016	May TIM	3:37

GENERATOR: COPIES 1 & 6

DSPOSAL 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 LA 1300 WEST MAIN STREET • OKLAHOM.	<b>ND, LLC</b> A CITY, OK 73106 • 1	PHONE (	405) 236-4	257	MAI	<i>1</i> 0
NOI	N-HAZARDOUS WASTE MANIFEST NO	114688	1. PA	GEOF_	2. TRAII	LER NO.	<u> </u>
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	12. COMMENTS OR SPECIAL INSTRUCTIONS:  PLAINS COTTON DRAW STATION ULT "E"				13. WASTE P		
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T	16. TRANSPORTER (1)	17.	TR	ANSPO	RTER (2)		
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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 NON-HAZARDOUS WASTE MANIFEST 14689 1. PAGE OF 3. COMPANY NAME 4. ADDRESS 5. PICK-UP DATE Plains Pipeline LP 2000 2000 2000 2000 2530 State Highway 214 6/10/2016 计设备控制 网络格特克斯托姆德法格氏病 PHONE NO. 6. TNRCC I.D. NO. ZIP ~ (575) 441-1099 www.q-pagagaran-communicati to the time of the first that he had $\mathbf{E}^{-1}$ 8. CONTAINERS 10. UNIT 9. TOTAL 11. TEXAS 7. NAME OR DESCRIPTION OF WASTE SHIPPED: No. **OUANTITY** Wt/Vol. WASTE ID# a Non-Regulated, Non Hazardous Waste $\mathbf{E}$ R 12. COMMENTS OR SPECIAL INSTRUCTIONS: WASTE PROFILE NO. PLAINS COTTON DRAW STATION ULT "E" 708588 A IN CASE OF EMERGENCY OR SPILL, CONTACT PHONE NO 24-HOUR EMERGENCY NO. $\mathbf{T}_{-}$ Kin Slaughter กร้องสามารัฐที่สามาราช คำสาม**าราชาราชาราชา**สตาราชาวิทยา 15.GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper 0 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 R TRANSPORTER (1) $\mathbf{T}$ 16. 17. TRANSPORTER (2) $\mathbf{R}$ TRC NAME: NAME: A N TEXAS I.D. NO. TEXAS I.D. NO. S Kurt Stanley (432) 558-3293 IN CASE OF EMERGENCY CONTACT: P IN CASE OF EMERGENCY CONTACT: O EMERGENCY PHONE: **EMERGENCY PHONE:** R 18. TRANSPORTER (1): Acknowledgment of receipt of material 19. TRANSPORTER (2): Acknowledgment of receipt of material T $\mathbf{E}$ PRINTED/TYPED NA 8/40 2010 PRINTED/TYPED NAME\_ R SIGNATURE SIGNATURE\_ ADDRESS: PHONE: Lea Land, LLC Mile Marker 64, U.S. Hwy 62/180, 575-887-4048 D F 30 Miles East of Carlsbad, NM PERMIT NO. 20. COMMENTS C S WM-01-035 - New Mexico P I 0 L 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. T AU**T**HORIZED SIGNATURE her with the said of the

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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

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· Y	AUTHORIZED SIGNATURE	ÇELL NO.	DATE	6/10/2016	TIM	Е
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GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

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

## LEA LAND, LLC

	1300 WEST MAIN STREET • OKLAHO	JMIA CITY, OK /3106 •	PHONE (405) 2.	36-4257	18 h
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# LEA LAND DISPOSAL SITE NEW MEXICO MILE MARKER #64 LIS HWY 62/180 - 30 MILES EAST OF CARL SRAD NM - PHONE (575) 897 4048

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10	AUTHORIZED SIGNATURE	appearate gaeros em secos	CELL NO.	regaggerige	DATE	6/14/2016	TIM	

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

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NO	N-HAZARDOUS WASTE MANIFEST NO	114721	1. PAGEO	F 2. TRAI	LER NO!	25L		
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	international and national government regulations, including applicable sta	te regulations, and are t	the same materials	previously appro	ved by LEA	A LAND, LLC		
R	PRINTED/TYPED NAME	SIGNATURE				DATE		
T	16. TRANSPORTER (1)	17.	TD A NSD	ORTER (2)				
R	16. TRANSPORTER (1) NAME:	NAME:	IMAINSI	JKIEK (2)				
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S P	TEXAS I.D. NO.  Kurt Stanley TEXAS I.D. NO.  IN CASE OF EMERGENCY CONTACT:  10 CASE OF EMERGENCY CONTACT:							
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R T	18. TRANSPORTER (1): Acknowledgment of receipt of material	19. TRANSPOR		owledgment of re	eceipt of ma	nterial		
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		Marker 64, U.S	S. Hwy 62/18	PHONE:	575-887	7-4048		
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	MILE MARKER #64 US HW	Y 62/180 • 30 MILF	ES EAST OF CARLSBA	D, NM • PHONE (5	575) 887-4048		
	1300 WEST MAIN S		AND, LLC OMA CITY, OK 73106 • 1	PHONE (405) 236-	-4257	Thix	)
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Ť	14. IN CA NKMESlaughter	ASE OF EMER	RGENCY OR SPIL	L, CONTACT	24-HOUR	R EMERGEN	NCY NO.
o	15.GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, an international and national government regulations, in	nd labeled, and are ir	n all respects in proper cou	ondition for transport	t by highway acc	cording to an	nnlicable
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Т	16. TRANSPORTER (1)		17.	TRANSPO	ORTER (2)		
R A	NAME:		NAME:				
N S		Kurt Stanle					
P	IN CASE OF EMERGENCY CONTACT:	(432) 559-32	293 IN CASE OF EMEI	RGENCY CONTAC	CT:		
O R	EMERGENCY PHONE:	***************************************	EMERGENCY PHO		**************************************		
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S C P I D L	PERMIT NO. WM-01-035 - New Mex		20. COMMENTS				
5 I	21.DISPOSAL FACILITY'S CERTIFICATION facility is authorized and permitted to receive such w	ATION: I Hereby wastes.	y certify that the above de	escribed wastes were	e delivered to thi	s facility, th	at the
`	L	. Pomes Leph Brane	ČELL NO.	DATE	6/14/2016	TIM	IF.

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

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TRANSPORTERS: COPIES 4 & 5

NO	N-HAZARDOUS WASTE MANIFEST NO	114723	1. PAGE_	_OF	2. TRAII	LER NO.∓	# <sub>103</sub>
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 **** <b>E</b>	P(575) NQ.1-1099	STATE	79323,	6. TNR	CC I.D. NC	).	
N	7. NAME OR DESCRIPTION OF WASTE SHIPPED:  Non-Regulated Non-Hazardous Waste  a	Padak kalandayan pabata anta-sa-masa - kaya	8. CONTAINI No. Ty		. TOTAL JANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
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A	12. COMMENTS OR SPECIAL INSTRUCTIONS: PLAINS COTTON DRAW STATION ULT "E"	TO 150	$O(n^2)$	13.	WASTE P	ROFILE NO	D. 708588
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T	NAMESIaughter material automorphism de seu automorphism (1976-1989) 4048				24-HOUR		
0	15.GENERATOR'S CERTIFICATION: I Hereby declare that shipping name and are classified, packed, marked, and labeled, and are in a international and national government regulations, including applicable states.	Il respects in proper cor	edition for trans	port by h	ighway acco	ording to an	nlicable
R	PRINTED/TYPED NAME	SIGNATURE					DATE
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A N S	NAME: TEXAS I.D. NO.  **TEXAS I.D. NO.	be known to					
P O	IN CASE OF EMERGENCY CONTACT: (432) 559-326 EMERGENCY PHONE:	IN CASE OF EMER		TACT:			
R T E	18. TRANSPORTER (1): Acknowledgment of receipt of material	EMERGENCY PHO 19. TRANSPOR	TER (2): Ad	knowled	gment of re	ceipt of ma	terial
R S	PRINTED/TYPED NAME NO E SO 6/14  SIGNATURE DATE	<b>2016</b> NTED/TYPED SIGNATURE		<u> </u>	D4	ATE	
	ADDRESS:				PHONE:	VIL.	
D F I A	· · · · · · · · · · · · · · · · · · ·	Marker 64, U.S Iiles East of Car	-	180,		575-887	-4048
S C P I O L	PERMIT NO. WM-01-035 - New Mexico	20. COMMENTS	***************************************				
S I A T	21. <b>DISPOSAL FACILITY'S CERTIFICATION:</b> I Hereby c facility is authorized and permitted to receive such wastes.						at the
LY	AUTHORIZED SIGNATURE    ON 20 / 14 /	CELL NO.	DV	ATE 6/1	14/2016	ТІМІ	.35
GENER/	ATOR: COPIES 1 & 6 DISPOSAL SITE	· COPIES 2 & 3		nik manadan kata men	TD A NICDO	DTED C. CC	PIES 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

	1300 WEST MAIN S		ND, LLC IA CITY, OK 73106 • 1	PHONE (40	05) 236-42	257	ini	)
NO	N-HAZARDOUS WASTE MANII	FEST NO	114724	1. PAG	EOF_	2. TRAII	LER NO.	D-8
- <b>G</b> -1,	PHONE NO.	CITY	ighway 214 STATE	ZI	IP 6. T	ICK-UP DATE 6/14/2016 NRCC I.D. NO	β <i>ψ</i> ε.	
<b>E</b>	7. NAME OR DESCRIPTION OF WASTE SHIPP	sy terrorisa i von Yaki errosen eritaise		8. CONTA	AINERS	9. TOTAL	10. UNIT	I1. TEXAS
N	a Non-Regulated, Non Hazardous Wa	st <b>e</b> dnsyddaethag ewie	rapida en 1 anage regerinas.	No.	Type CM:	QUANTITY	Wt/Vol.	WASTE ID #
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<b>T</b>	2713.67	PHONE NO	SENCY OR SPIL	L, CONT	TACT	24-HOUR	EMERGEN	NCY NO.
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		ADDRESS:				PHONE:		
F A	Lea Land, LLC		Marker 64, U.S Miles East of Ca	•		,	575-887	7-4048
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TRANSPORTERS: COPIES 4 & 5

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

#### LEA LAND, LLC

	1300 WEST MAIN STREET •	OKLAHOM	IA CITY, OK 73106 • F	PHONE (	405) 236-4	<sup>257</sup> VII	inc	nls
NOI	N-HAZARDOUS WASTE MANIFEST	NO	114725	1. PA	GEOF_	2. TRAII	LER NO.	#4
G	PHONE NO. (575) 441–1099 Dem	0 State Hi wer City	lighway 214 STATE	:	ZIP 6. T	PICK-UP DATE 6/14/2016 TNRCC I.D. NO	8	
E	7. NAME OR DESCRIPTION OF WASTE SHIPPED:	ugying ay by Jawa		8. CON	TAINERS Type	9. TOTAL QUANTITY	10. UNIT	11. TEXAS WASTE ID #
Ń	a.Non-Regulated, Non Hazardous Waste	en a seconda	utmanas kuras sappris taragus sangri kuras 10		/ CM:	1 -	YY 0 7 0 2.	WADILIE
E	b. c.							
R	d.WT: 440 12. COMMENTS OR SPECIAL INSTRUCTIONS:					13. WASTE P	TOPII E N	
<b>A</b> :	PLAINS:COTTON:DRAW/STATION:ULT:"E	<b>Bl</b> ow knower	Mawasha (Sarjesaka sanshwesi	layadeni ji grişti.	ar 1974) news			
<b>T</b>	NAME	NE NO	GENCY OR SPILI	L, CON	TACT	24-HOUR	EMERGE	NCY NO.
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R	PRINTED/TYPED NAME		SIGNATURE			<u></u>		DATE
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D F	Lea Land, LLC	Mile	e Marker 64, U.S Miles East of Car	•		O, PHONE:	575-887	7-4048
S C P I D L	PERMIT NO. WM-01-035 - New Mexico		20. COMMENTS					
S I	21.DISPOSAL FACILITY'S CERTIFICATION facility is authorized and permitted to receive such wastes.	: I Hereby c	ertify that the above des	scribed w	rastes were	delivered to thi	s facility, th	nat the
<b>Y</b>	AUTHORIZED SIGNATURE  One of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the con	ramoje monika (je	CELL NO.		DATE	6/14/2016		ле 50

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

# Appendix E BLM and NMOCD email correspondence

Thank you,

Stanley, Curtis D.	
From:	Pair, Randal <rpair@blm.gov></rpair@blm.gov>
Sent:	Thursday, July 21, 2016 8:16 PM
To:	Keyes, Jamie, EMNRD
Cc:	Stanley, Curtis D.; Camille J Bryant
Subject:	Re: Plains Pipeline Cotton Draw Station Release Site
	filling any remaining excavation at this time. Any further action BLM might take will wait additional sampling in 6 months.
Randal "Randy" I	Pair
Envir. Protection office: 575.234.6	Specialist - Realty Compliance
cell: 575.361.00	
email: <u>rpair@blm</u>	
On Thu, Jul 14, 2016	at 3:12 PM, Keyes, Jamie, EMNRD < <u>Jamie.Keyes@state.nm.us</u> > wrote:
That is correct.	
Sent: Thursday, Jul	tis D. [mailto: <u>CDStanley@trcsolutions.com</u> ] y 14, 2016 3:01 PM EMNRD; Camille J Bryant
Subject: RE: Plains	Pipeline Cotton Draw Station Release Site
Jamie,	
Thank you for your	response.
	stand NMOCD is granting Plains permission to backfill the Cotton Draw Station Release the BLM conditions for closure as stated below.

#### Curt D. Stanley Senior Project Manager



2057 Commerce, Midland, TX 79703

T: 432.520.7720 | F: 432.520.7701 | C: 432.559.3296

LinkedIn Twitter Blog www.trcsolutions.com

From: Keyes, Jamie, EMNRD [mailto:Jamie.Keyes@state.nm.us]

Sent: Thursday, July 07, 2016 10:27 AM

To: Camille J Bryant < CJBryant@paalp.com>

Cc: Stanley, Curtis D. <CDStanley@trcsolutions.com>; 'Pair, Randal' <rpair@blm.gov>

Subject: RE: Plains Pipeline Cotton Draw Station Release Site

Good morning,

OCD concurs with the BLM conditions. I look forward to the closure report.

Thank you,

Jamie

From: Camille J Bryant [mailto:CJBryant@paalp.com]

Sent: Tuesday, July 05, 2016 1:33 PM To: Keyes, Jamie, EMNRD; 'Pair, Randal'

Cc: Stanley, Curtis D. (CDStanley@trcsolutions.com)
Subject: Plains Pipeline Cotton Draw Station Release Site

Jamie / Randy,

On the morning of June 27, 2016, a TRC representative met with a representative of the NMOCD Hobbs District Office on behalf of Plains Pipeline. The purpose of the meeting was to discuss the current status of the Plains Cotton Draw Station Release Site (1RP-4276) and request permission to backfill the excavation. The Release Site is located in Unit Letter E, Section 3, Township 26 S, Range 32 East in Lea County, NM. The depth to groundwater at the Release Site is approximately 260 feet below ground surface (bgs).

The TRC representative understood NMOCD approved leaving "in situ" limited volumes of impacted soil (represented by soil samples Sample-3A @ 6", SK-200B @ 1.5", and P400B @ 2") located adjacent to concrete structural supports, under the equipment skid and beneath the aboveground facility piping. Excavation in these areas could potentially affect the integrity of the pipe supports and the associated aboveground piping, creating a safety and a potential environmental hazard. Per Plains, the "in situ" impacted soil will be remediated at time of abandonment (ATOA) of the facility. In addition, the TRC representative understood NMOCD approved backfilling the release site with non-impacted material. Approximately 3,000 cubic yards of impacted soil was previously transported to Lea Land Landfill for disposal.

On June 28, 2016, a Plains representative met with a BLM (landowner) representative to discuss the current status of the Plains Cotton Draw Station Release Site (1RP-4276) and request permission to backfill the excavation. The BLM representative approved the backfilling of the excavation with the following conditions.

- The areas represented by soil samples Sample-3A @ 6", SK-20B @ 1.5', and P400B @ 2' must be treated with Microbaze® before backfilling can commence. Please note, on June 29, 2016, the areas of concern were treated with Microbaze®, as requested by the BLM Representative.
- The areas stated above must be marked with stakes prior to backfilling, to identify the areas of concern.
- Non-impacted caliche placed outside the facility fences during the facility construction phase has been removed and will be utilized as backfill material.
- Additional volumes of non-impacted caliche will be purchased from the New Mexico State Land Office (NMSLO) to complete the backfilling of the excavation.
- The areas of concern must be resampled for benzene, toluene, ethylbenzene, and xylene (BTEX) by Method 8021B, total petroleum hydrocarbons (TPH) by Method 8015M, and chloride by Method E300.0, six (6) months after the backfilling has been completed.
- Non-impacted soil will be purchased from Lea Land to backfill remediated areas south of the facility fence.

Following backfilling activities, a "Remediation Summary and Site Closure Request" will be prepared and submitted to the NMOCD and BLM for approval.

Plains is prepared to commence the activities stated above with written NMOCD and BLM approval. If you have any questions or concerns, please contact me at 575-441-1099 or via email.

Thank you for your time and consideration,

#### Camille J. Bryant

Remediation Coordinator

Plains All American

2530 State Highway 214

Denver City, Texas 79323

Office: 806.592.2555

Cell: 575.441.1099

Fax: 806.592.7479

Email: cjbryant@paalp.com

#### Attention:

The information contained in this message and/or attachments is intended only for the person or entity to which it is addressed and may contain confidential and/or privileged material. If you received this in error, please contact the Plains Service Desk at 713-646-4444 and delete the material from any system and destroy any copies.

This footnote also confirms that this email message has been scanned for Viruses and Content and cleared.

# Appendix F Release Notification and Corrective Action (NMOCD Form C-141)

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



Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

#### **Release Notification and Corrective Action**

		OPER	OPERATOR Initial Report Final Rep				
Name of Company Plains Pig	peline LP	Contact	Camille Bry				
Address 2530 State I	Hwy. 214, Denver City, TX 79323	Telephon	Telephone No. (575) 441-1099				
Facility Name Cotton Dra			ype Pipeline				
Surface Owner BLM	Mineral O	wner		Lease	No.		
	TOCA	TION OF R	FI FASE				
Unit Letter   Section   Townshi		North/South Lin		East/West Line	County		
E 3 26S	32E	North/South Em	reet from the	Last West Line	Lea		
	Latitude N 32.	07570° Longitu	ide W 103.67049	0			
	NAT	URE OF RE	LEASE				
Type of Release Crude Oil			of Release 190 bb		Recovered		
Source of Release Pipeline		l l	d Hour of Occurren		d Hour of Dis		r
Was Immediate Notice Given?			016 @ 08:40 To Whom?	04/19/2	016 @ 08:40		
	▼ Yes □No □ Not Require		notification to Jamie	e Keyes			
By Whom? Camille Bryant	·	Date an	d Hour 04/19/20	16@10:34			
Was a Watercourse Reached?		If YES.	Volume Impacting	the Watercourse.			
	☐ Yes ☒ No						
If a Watercourse was Impacted, De	scribe Fully.*	'					
Describe Cause of Problem and Re							o use of lock-
out-tag-out and failure to identify t	he need for coordination on sin	nultaneous tasks o	n the same equipme	ent resulted in a re	lease of crude	e oil.	
Describe Area Affected and Clean	un Action Tokan, The released	aruda oil impaata	d an area of anneavi	mataly 53 000 say	ara foot incid	la tha f	noility the
release fluid then flowed south and							
south impacting an area of approxi							
		-	-	-			_
I haraby partify that the information	n airran aharra is torra and same	lote to the best of	mu lmandadaa and	danatand that m		40CD	mulas and
I hereby certify that the informatio regulations all operators are require							
public health or the environment.							
should their operations have failed	to adequately investigate and r	emediate contami	nation that pose a th	hreat to ground wa	iter, surface v	vater, h	uman health
or the environment. In addition, N		report does not re	lieve the operator o	f responsibility fo	compliance	with ar	ny other
federal, state, or local laws and/or	regulations.	1	OTL CON	ICEDVATIO	NI DIVITOI	ONT	
IIV		1	OIL COI	NSERVATIO	N DIAIZI	<u>UIN</u>	
Signaturonll	TAN			1			
Approved by District Supervisor:							
Printed Name: Camille Bryant			1				
Title: Remediation Coordinator		Approva	Date: 05/12/2016	Expiration	on Date: 07/1	2/2016	
E-mail Address: cjbryant@paalp.	com	Conditio	ns of Approval:				
			amples only. Deline	ate and remediate	per Attache		
Date: 5   13   10	Phone: (575) 441-10	99 NMOCD	guidelines. Ensure F			4276	
* Attach Additional Sheets If Ne	cessary	approval.	-				