RECEIVED
By JKeyes at 2:56 pm, Jan 19, 2016

APPROVED
By JKeyes at 2:56 pm, Jan 19, 2016

State of New Mexico
Energy, Minerals and Natural Resources

District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	Plains Pipeline LP	Contact	Camille Bryant
Address	2530 State Hwy. 214, Denver City, TX 79323	Telephone No.	(575) 441-1099
Facility Name	Lynch South to Jal 16 Inch Sump	Facility Type	Sump

Surface Owner	Mineral Owner	Lease No.
New Mexico State Land		

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	32	25S	37E					Lea

Latitude N 32.081636 Longitude W 103.181059°

NATURE OF RELEASE

Type of Release: Crude Oil	Volume of Release: 35 bbls	Volume Recovered: 25 bbls
Source of Release: Sump	Date and Hour of Occurrence: 05/31/2015 @ 12:00 am	Date and Hour of Discovery: 05/31/2015 @ 1:00 am
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Verbal notification to Kellie Jones	
By Whom? Shawn Harris	Date and Hour: 06/01/2015 @ 08:45 am	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

HOBBS OCD
JAN 13 2016
RECEIVED

Describe Cause of Problem and Remedial Action Taken.* The Rexa valves failed due to a lightning storm which caused overpressure and pop offs to relief into the sump. Storm also caused sump pump motor to fail resulting in overflow of sump.

Describe Area Affected and Cleanup Action Taken. The released crude oil impacted an area of approximately 8,100 square feet around the sump. All released fluids were contained inside the facility. The release was remediated as per NMOCD recommended guidelines. Please reference the attached Remediation Summary and Site Closure Request dated November 2015 for remediation details.

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

Signature: Camille Bryant

Printed Name: Camille Bryant

Title: Remediation Coordinator

E-mail Address: cjbryant@paalp.com

Date: 1/12/2016 Phone: (575) 441-1099

OIL CONSERVATION DIVISION

Approved by District Supervisor:

Approval Date: 01/19/2016 Expiration Date: ///

Conditions of Approval: ///

Attached ☐

* Attach Additional Sheets If Necessary

IRP-3668

JAN 13 2016

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Repor

Name of Company	Plains Pipeline LP	Contact	Camille Bryant
Address	2530 State Hwy. 214, Denver City, TX 79323	Telephone No.	(575) 441-1099
Facility Name	Lynch South to Jal 16 Inch Sump	Facility Type	Sump

Surface Owner	Mineral Owner	Lease No.
New Mexico State Land		

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	32	25S	37E					Lea

Latitude N 32.081636 Longitude W 103.181059°

NATURE OF RELEASE

Type of Release: Crude Oil	Volume of Release: 35 bbls	Volume Recovered: 25 bbls
Source of Release: Sump	Date and Hour of Occurrence: 05/31/2015 @ 12:00 am	Date and Hour of Discovery: 05/31/2015 @ 1:00 am
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Verbal notification to Kellie Jones	
By Whom? Shawn Harris	Date and Hour: 06/01/2015 @ 08:45 am	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

RECEIVED
By OCD District 1 at 3:44 pm, Jun 11, 2015

Describe Cause of Problem and Remedial Action Taken.* The Rexa valves failed due to a lightning storm which caused overpressure and pop offs to relief into the sump. Storm also caused sump pump motor to fail resulting in overflow of sump.

Describe Area Affected and Cleanup Action Taken. The released crude oil impacted an area of approximately 8,100 square feet around the sump. The impacted area will be remediated as per applicable NMOCD guidelines.

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

Signature: Camille Bryant

Printed Name: Camille Bryant

Title: Remediation Coordinator

E-mail Address: cjbryant@paalp.com

Date: 6/9/15 Phone: (575) 441-1099

Attach Additional Sheets If Necessary

OIL CONSERVATION DIVISION

Approved by District Supervisor: KG

Approval Date: 06/11/2015 Expiration Date: 09/11/2015

Conditions of Approval:
Site samples required. Delineate and remediate ~~as per MNOCD guides. Geotag photographs of~~ remediation required.

Attached ☐ 34053
1RP-3668

nKJ1516634143
pKJ1516634671

REMEDIATION SUMMARY AND SITE CLOSURE REQUEST

LYNCH SOUTH TO JAL 16-INCH SUMP

UNIT LETTER "O", SECTION 32, TOWNSHIP 25 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO
SRS #: 2015-130
NMOCD Reference: 1RP-3668

Prepared for:

Plains Pipeline, L.P.
333 Clay Street, Suite 1600
Houston, Texas 77002

HOBBS OCD
JAN 13 2016

Prepared by:

TRC Environmental Corporation
2057 Commerce Drive
Midland, Texas 79703

November 2015

Curt D. Stanley
Senior Project Manager

Brittan K. Byerly, P.G.
Managing Principal

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 Lynch South to Jal 16-Inch Sump (SRS: 2015-130). The Release Site is located approximately three (3) miles south of Jal in Unit Letter "O", Section 32, Township 25 South, Range 37 East, in Lea County, New Mexico. The Release Site GPS coordinates are N 32.081636° W 103.181059°. A topographic location map and Site Details and Confirmation Soil Sample Location Map depicting the soil sample locations are provided as Figures 1 and 2, respectively. The Release Site is located on property owned by The New Mexico State Land Office (NMSLO).

On May 31, 2015, a crude oil release of approximately thirty-five (35) barrels (bbls) occurred as a result of the Rexa valves failing due to a lightning storm, which caused the pressure relief valves to overpressure and relieve into the sump. In addition, the storm caused the sump pump motor to fail, resulting in the overflow of the sump. Approximately twenty-five (25) bbls of crude oil was recovered during the initial response activities, resulting in a net loss of approximately ten (10) bbls of crude oil. An area of impacted soil measuring approximately 8,100 square feet was observed on the ground surface. The Release was contained on the caliche pad, within the confines of the Plains NMSLO Commercial Lease. Site photographs are provided as Appendix A. The Release Notification and Corrective Action (Form C-141) is provided as Appendix C.

2.0 NMOCD SITE CLASSIFICATION

A groundwater database maintained by The New Mexico Office of the State Engineer (NMOSE) did not identify any registered water wells in Section 32, Township 25 South, Range 37 East. An inferred depth of groundwater reference map utilized by The New Mexico Oil Conservation Division (NMOCD) indicates groundwater should be encountered at approximately one hundred ten (110) feet below ground surface (bgs). Shell Pipeline Company, LP (Shell) has installed monitor wells in Unit Letter P, Section 32, Township 25 South, Range 37 East and groundwater elevation data indicates groundwater was encountered at approximately eighty-five (85) feet bgs. Based on the NMOCD site classification system and utilizing Shell groundwater elevation date, ten (10) points will be assigned to the Release Site ranking as a result of this criterion.

There are no registered water wells located within 1,000 feet of the Release Site. Based on the NMOCD Site Classification System, no points will be assigned to the Release Site ranking as a result of this criterion.

There are no surface-water features located within a 1,000 foot radius of the site. Based on the NMOCD Site Classification System, no points would be assigned to the site as a result of this criterion. The NMOCD guidelines indicate the Release Site has a ranking score of ten (10) points. The regulatory guidelines for a Release Site with a ranking score of ten (10) points are as follows:

- Benzene - 10 mg/Kg
- BTEX - 50 mg/Kg

- TPH – 1,000 mg/Kg

3.0 SUMMARY OF FIELD ACTIVITIES

On June 4, 2015, remediation activities commenced at the Release Site. Impacted soil was hand excavated near and under the piping and a backhoe was utilized to excavate in open areas. The completed excavation measured approximately nineteen (19) to seventy-one (71) feet in width, approximately fifty-four (54) to seventy (70) feet in length and approximately six (6) inches to five (5) feet in depth. Impacted soil was stockpiled on plastic to the west of the excavation.

On June 8, 2015, four (4) excavation floor soil samples (Sample 1 @ 1', Sample 2 @ 6", Sample 3 @ 6" and Sample 4 @ 5') were collected and submitted to Permian Basin Environmental Lab, L.P. in Midland, Texas for analysis of concentrations of benzene, toluene, ethylbenzene, and xylene (BTEX) using Method SW-846 8021B and total petroleum hydrocarbon (TPH) using Method SW 846-8015M and chloride using method E 300.0. The analytical results indicated benzene and BTEX concentrations were less than the appropriate laboratory method detection limit (MDL) for four (4) submitted soil samples. TPH concentrations ranged from less than the laboratory MDL for all soil samples Sample 2 @ 6", Sample 3 @ 6", and Sample 4 @ 5' to 489.5 mg/Kg for soil sample Sample 1 @ 1'. Soil sample Sample 1 @ 1' exhibited a chloride concentration of 1.74 mg/Kg. A table summarizing Benzene, BTEX, TPH, and Chloride Concentrations in Soil is provided as Table 1. Laboratory Analytical Reports are provided as Appendix B.

In addition, two (2) excavation sidewall soil sample (WSW @ 4' and ESW @ 4') were collected and submitted to the laboratory for determination of concentrations of benzene, BTEX, and TPH. Soil samples were not collected from the north and south sidewalls due to the presence of cement pipeline supports. The analytical results indicated benzene, BTEX, and TPH concentrations were less than the laboratory MDL. Please reference Figure 2 for the locations of the soil samples. Based on the analytical results, no additional excavation was warranted at the Release Site.

On June 22, 2015, one (1) stockpile soil sample (SP Baseline) was collected and submitted to the laboratory for BTEX and TPH analysis. The analytical results indicated the benzene concentration of the soil sample was less than the laboratory MDL of 0.00104 mg/Kg and the BTEX concentration was 0.0659 mg/Kg. TPH analysis indicated the soil sample exhibited a TPH concentration of 1,285.9 mg/Kg. Based on the analytical results, Plains opted to remediate the impacted soil stockpile by blending and mixing the impacted soil and placing the soil in an on-site treatment cell.

On July 2, 2015, the stockpile was mixed and blended with approximately two hundred-fifty (250) pounds of a high nitrogen fertilizer to expedite the bioremediation of the impacted soil.

On July 24, 2015, one (1) stockpile soil sample (SP-1) was collected and submitted to the laboratory for BTEX and TPH analysis. The analytical results indicated the benzene and BTEX concentration of the soil sample was less than the appropriate laboratory MDL. TPH analysis indicated the soil sample exhibited a TPH concentration of 2,056.1 mg/Kg.

On September 9, 2015, one (1) stockpile soil sample (SP-2 (1-A)) was collected and submitted to the laboratory for BTEX and TPH analysis. The analytical results indicated the benzene and BTEX concentration of the soil sample was less than the appropriate laboratory MDL. TPH analysis indicated the soil sample exhibited a TPH concentration of 1,387 mg/Kg.

September 21, 2015, the stockpile was mixed and blended with an additional approximately two hundred-fifty (250) pounds of a high nitrogen fertilizer to expedite the bioremediation of the impacted soil.

On October 13, 2015, one (1) stockpile soil sample (SP-3 (1-B)) was collected and submitted to the laboratory for BTEX and TPH analysis. The analytical results indicated the benzene concentration of the soil sample was less than the laboratory MDL of 0.00103 mg/Kg and BTEX concentration was 0.03127 mg/Kg TPH analysis indicated the soil sample exhibited a TPH concentration of 242.9 mg/Kg.

Based on the analytical results, Plains requested "permission to backfill" from the NMOCD – Hobbs District Office. On October 22, 2015, the NMOCD – Hobbs District Office approved the backfilling of the excavation with the remediated soil contained in the on-site treatment cell.

Plains is currently conducting work in the remediated area. On completion of the in-progress work, a Plains Contractor will backfill the excavation with the remediated soil.

4.0 SITE CLOSURE REQUEST

TRC recommends Plains provide the NMOCD a copy of this Remediation Summary and Site Closure Request and request the NMOCD grant site closure status to the Lynch South to Jal 16-Inch Sump Release of May 31, 2015.

5.0 LIMITATIONS

TRC Environmental Corporation has 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 Environmental Corporation has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. TRC Environmental Corporation 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 Environmental Corporation has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. TRC Environmental Corporation 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 Environmental Corporation and/or Plains Pipeline L.P.

6.0 DISTRIBUTION

Copy 1:
Kellie Jones
New Mexico Oil Conservation Division (District 1)
1625 French Drive
Hobbs, New Mexico 88240

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Hobbs District Office
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agroves@slo.state.nm.us

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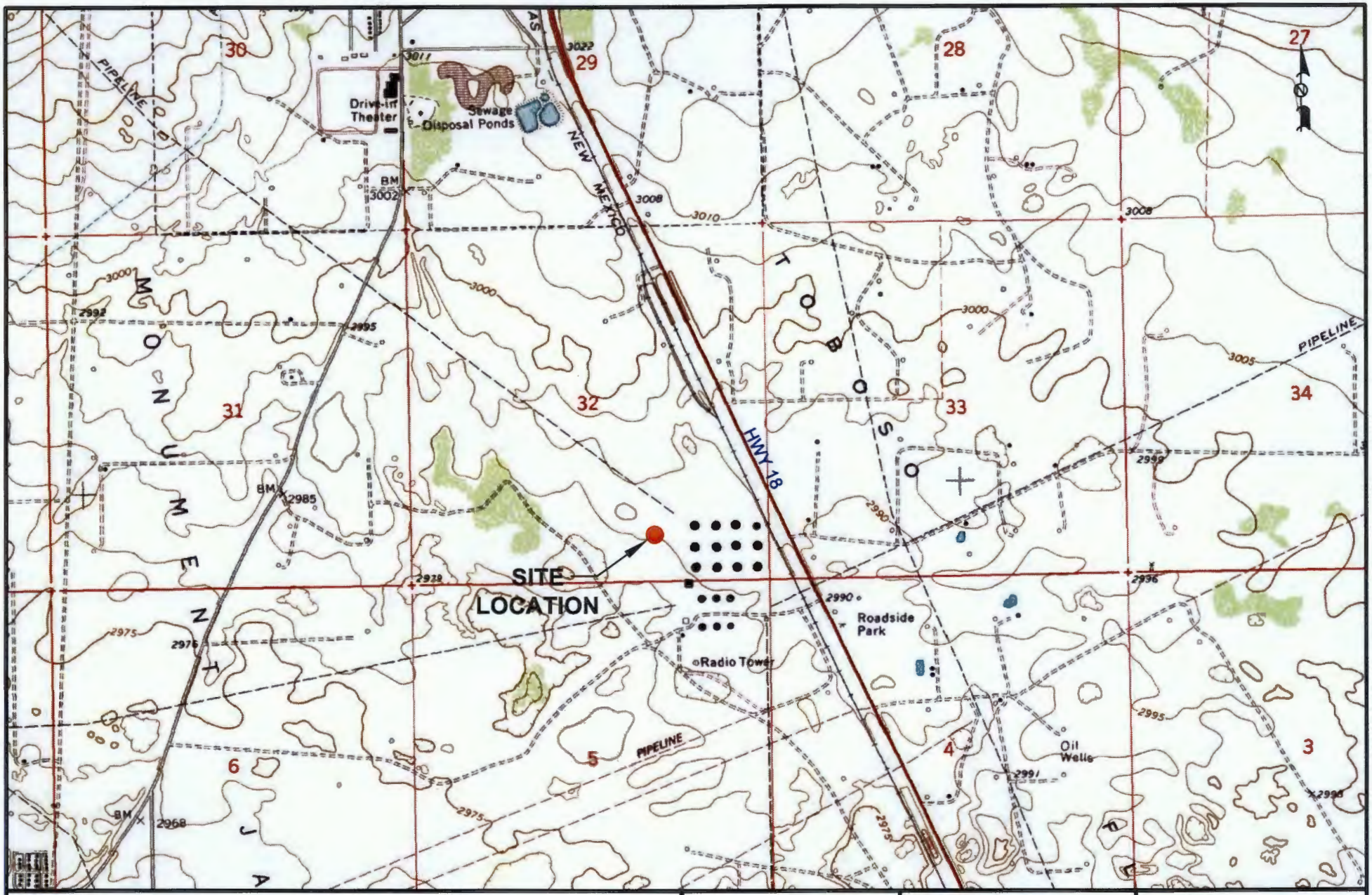
TRC Environmental Corporation
2057 Commerce Drive
Midland, Texas 79703
cdstanley@trcsolutions.com



LEGEND:

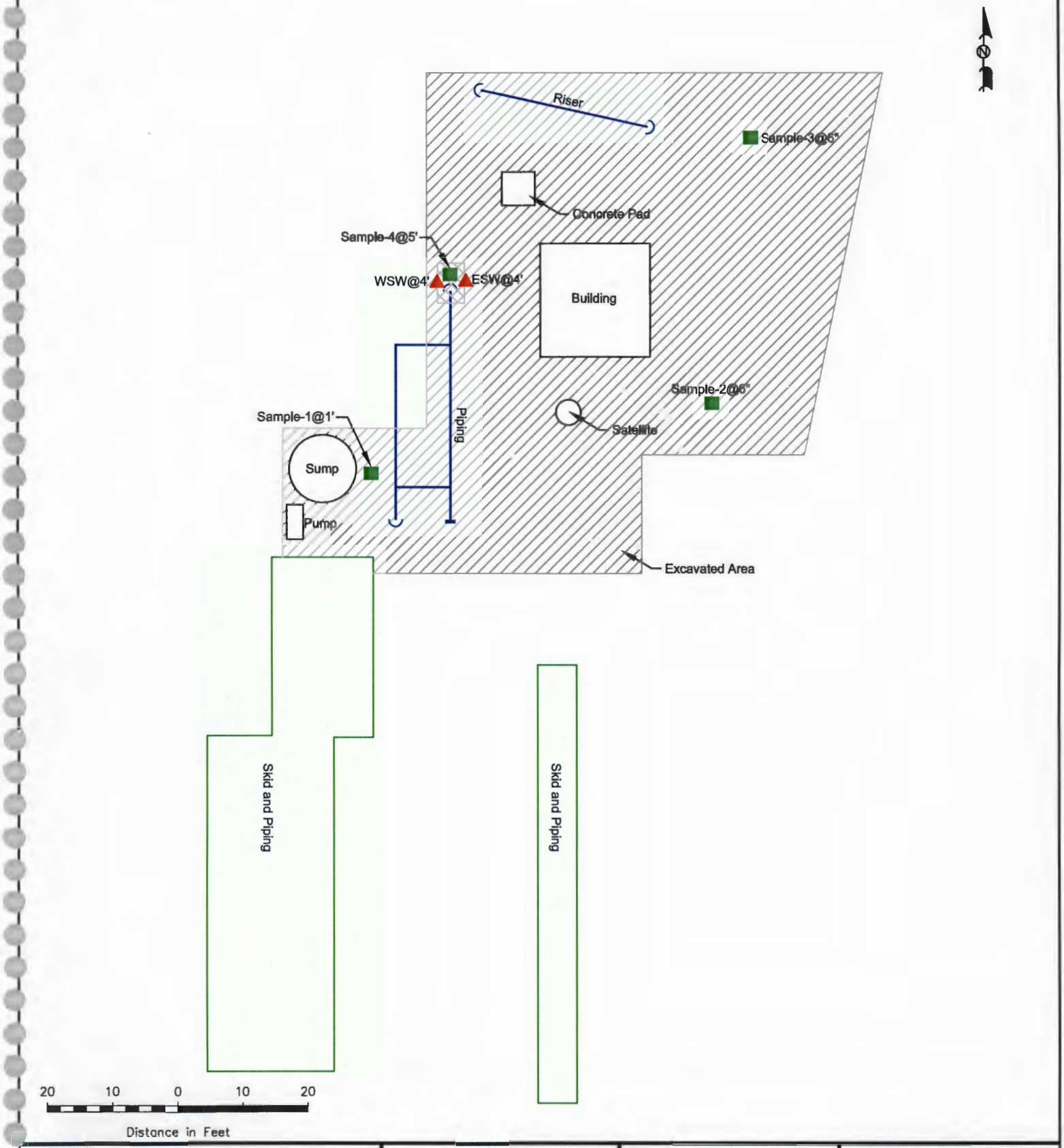
2000 1000 0 1000 2000

Distance in Feet

Figure 1
Site Location Map
Plains Pipeline, LP.
Lynch South to Jal 16" Sump
SRS# 2015-130
Lea County, NM

Scale: 1" = 2000'
CAD By: TA
Checked By: CS
Draft: June 15, 2015
Lat. N 32.081629° Long. W 103.181101°
SW1/4 SW1/4 Sec 32 T25S R37E

TRC
2057 Commerce Drive
Midland, Texas 79703
432.520.7720



LEGEND:

- Sidewall Soil Sample Location
- Floor Soil Sample Location

Figure 2
Site Details & Confirmation Soil Sample Location Map
Plains Pipeline, LP.
Lynch South to Jal 16" Sump
SRS# 2015-130
Lea County, NM

Scale: 1" = 20'
CAD By: TA
Checked By: CS
Draft: June 15, 2015
Lat. N 32.081629° , Long. W 103.181101°

TRC
2057 Commerce Drive
Midland, Texas 79703
432.520.7720

TABLE 1
CONCENTRATIONS OF BTEX, TPH, AND CHLORIDE IN SOIL

LYNCH SOUTH TO JAL 16-INCH SUMP
PLAINS PIPELINE, L.P.
LEA COUNTY, NM
PLAINS SRS NUMBER: 2015-130
NMOCD REFERENCE NUMBER: 1RP-3668

SAMPLE LOCATION	SAMPLE DATE	SAMPLE DEPTH (feet)	Methods: EPA SW 846-8021B, 5030						Methods: EPA SW 846-8015M				CHLORIDE (mg/Kg)
			BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	m,p XYLENE (mg/Kg)	o XYLENE (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	ORO (mg/Kg)	TOTAL TPH (mg/Kg)	
NMOCD Regulatory Guideline			**10**	-	-	-	-	**50**	-	-	-	**1,000**	**250**
Sample 1 @ 1'	6/8/2015	1'	<0.00104	<0.00208	<0.00104	<0.00208	<0.00104	<0.00208	<26.0	425	64.5	489.5	1.74
Sample 2 @ 6"	6/8/2015	6"	<0.00103	<0.00206	<0.00103	<0.00206	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	-
Sample 3 @ 6"	6/8/2015	6"	<0.00103	<0.00206	<0.00103	<0.00206	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	-
Sample 4 @ 5'	6/8/2015	5'	<0.00111	<0.00222	<0.00111	<0.00222	<0.00111	<0.00222	<27.8	<27.8	<27.8	<27.8	-
WSW @ 4'	6/8/2015	4'	<0.00105	<0.00211	<0.00105	<0.00211	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	-
ESW @ 4'	6/8/2015	4'	<0.00105	<0.00211	<0.00105	<0.00211	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	-
Baseline SP	6/22/2015	-	<0.00104	0.00241	0.00529	0.0414	0.0168	0.0659	92.9	1,090	103	**1,285.9**	-
SP-1	7/24/2015	-	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	33.1	1,800	223	**2,056.1**	-
SP-2 (1A)	9/9/2015	-	<0.00100	<0.00200	<0.00100	<0.00200	<0.00100	<0.00200	<25.0	1,170	217	**1,387**	-
SP-3 (1B)	10/13/2015	-	<0.00103	0.00422	0.00151	0.0224	0.00314	0.03127	<25.8	198	44.9	242.9	-

TRC
Results you can rely on

Photographic Documentation

Client: Plains Pipeline L.P.
Project Name: Lynch South to Jal 16-Inch Sump

Prepared by: TRC Environmental Corp.
Location: Lea County, NM

Photograph No. 1 **Date:** **June 3, 2015** **Description:** **Looking east.** **Area of impact prior to remediation activities.**	
Photograph No. 2 **Date:** **June 3, 2015** **Description:** **Looking east.** **Area of impact prior to remediation activities.**	

TRC
Results you can rely on

Photographic Documentation

Client: Plains Pipeline L.P.
Project Name: Lynch South to Jal 16-Inch Sump

Prepared by: TRC Environmental Corp.
Location: Lea County, NM

Photograph No. 3 **Date:** **June 8, 2015** **Description:** **Looking north.** **Excavation completed and soil sampled.**	
Photograph No. 4 **Date:** **June 8, 2015** **Description:** **Looking west** **Excavation completed and soil sampled.**	

PERMIAN BASIN
ENVIRONMENTAL LAB, LP
10014 SCR 1213
Midland, TX 79706

PBELAB

Analytical Report

Prepared for:

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

Project: Lynch to Jal 16-Inch Sump
Project Number: [none]
Location: Lea County, NM

Lab Order Number: 5F11009

NELAP ACCREDITED TNI LABORATORY

NELAP/TCEQ # T104704156-13-3

Report Date: 06/22/15

TRC Solutions- Midland, Texas	Project: Lynch to Jal 16-Inch Sump	Fax: (432) 520-7701
2057 Commerce Street	Project Number: [none]	
Midland TX, 79703	Project Manager: Curt Stanley	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Sample 1 @ 1'	5F11009-01	Soil	06/08/15 15:00	06-11-2015 10:32
Sample 2 @ 6"	5F11009-02	Soil	06/08/15 15:05	06-11-2015 10:32
Sample 3 @ 6"	5F11009-03	Soil	06/08/15 15:10	06-11-2015 10:32
Sample 4 @ 5'	5F11009-04	Soil	06/08/15 15:15	06-11-2015 10:32
WSW @ 4'	5F11009-05	Soil	06/08/15 15:20	06-11-2015 10:32
ESW @ 4'	5F11009-06	Soil	06/08/15 15:25	06-11-2015 10:32

TRC Solutions- Midland, Texas	Project: Lynch to Jal 16-Inch Sump	Fax: (432) 520-7701
2057 Commerce Street	Project Number: [none]	
Midland TX, 79703	Project Manager: Curt Stanley	

Sample 1 @ 1'

5F11009-01 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00104	mg/kg dry	1	P5F1602	06/15/15	06/16/15	EPA 8021B	
Toluene	ND	0.00208	mg/kg dry	1	P5F1602	06/15/15	06/16/15	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P5F1602	06/15/15	06/16/15	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P5F1602	06/15/15	06/16/15	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P5F1602	06/15/15	06/16/15	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*120 %*	*75-125*		*P5F1602*	*06/15/15*	*06/16/15*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*113 %*	*75-125*		*P5F1602*	*06/15/15*	*06/16/15*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1.74**	1.04	mg/kg dry	1	P5F1605	06/16/15	06/16/15	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P5F1601	06/16/15	06/16/15	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P5F1806	06/17/15	06/17/15	TPH 8015M	
>C12-C28	**425**	26.0	mg/kg dry	1	P5F1806	06/17/15	06/17/15	TPH 8015M	
>C28-C35	**64.5**	26.0	mg/kg dry	1	P5F1806	06/17/15	06/17/15	TPH 8015M	
Surrogate: 1-Chlorooctane		*83.6 %*	*70-130*		*P5F1806*	*06/17/15*	*06/17/15*	*TPH 8015M*	
Surrogate: o-Terphenyl		*110 %*	*70-130*		*P5F1806*	*06/17/15*	*06/17/15*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**490**	26.0	mg/kg dry	1	[CALC]	06/17/15	06/17/15	calc	

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.

TRC Solutions- Midland, Texas	Project: Lynch to Jal 16-Inch Sump	Fax: (432) 520-7701
2057 Commerce Street	Project Number: [none]	
Midland TX, 79703	Project Manager: Curt Stanley	

Sample 2 @ 6"

5F11009-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
Organics by GC									
Benzene	ND	0.00103	mg/kg dry	1	P5F1808	06/17/15	06/18/15	EPA 8021B	
Toluene	ND	0.00206	mg/kg dry	1	P5F1808	06/17/15	06/18/15	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P5F1808	06/17/15	06/18/15	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P5F1808	06/17/15	06/18/15	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P5F1808	06/17/15	06/18/15	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*121 %*	*75-125*		*P5F1808*	*06/17/15*	*06/18/15*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*96.0 %*	*75-125*		*P5F1808*	*06/17/15*	*06/18/15*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	**3.0**	0.1	%	1	P5F1601	06/16/15	06/16/15	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P5F1806	06/17/15	06/17/15	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P5F1806	06/17/15	06/17/15	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P5F1806	06/17/15	06/17/15	TPH 8015M	
Surrogate: 1-Chlorooctane		*123 %*	*70-130*		*P5F1806*	*06/17/15*	*06/17/15*	*TPH 8015M*	
Surrogate: o-Terphenyl		*158 %*	*70-130*		*P5F1806*	*06/17/15*	*06/17/15*	*TPH 8015M*	*S-GC*
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	06/17/15	06/17/15	calc	

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2057 Commerce Street	Project Number: [none]	
Midland TX, 79703	Project Manager: Curt Stanley	

Sample 3 @ 6"

5F11009-03 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00103	mg/kg dry	1	P5F1602	06/15/15	06/16/15	EPA 8021B	
Toluene	ND	0.00206	mg/kg dry	1	P5F1602	06/15/15	06/16/15	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P5F1602	06/15/15	06/16/15	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P5F1602	06/15/15	06/16/15	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P5F1602	06/15/15	06/16/15	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*99.3 %*	*75-125*		*P5F1602*	*06/15/15*	*06/16/15*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*108 %*	*75-125*		*P5F1602*	*06/15/15*	*06/16/15*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	**3.0**	0.1	%	1	P5F1601	06/16/15	06/16/15	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P5F1704	06/16/15	06/17/15	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P5F1704	06/16/15	06/17/15	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P5F1704	06/16/15	06/17/15	TPH 8015M	
Surrogate: 1-Chlorooctane		*87.3 %*	*70-130*		*P5F1704*	*06/16/15*	*06/17/15*	*TPH 8015M*	
Surrogate: o-Terphenyl		*111 %*	*70-130*		*P5F1704*	*06/16/15*	*06/17/15*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	06/16/15	06/17/15	calc	

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2057 Commerce Street	Project Number: [none]	
Midland TX, 79703	Project Manager: Curt Stanley	

Sample 4 @ 5'

5F11009-04 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00111	mg/kg dry	1	P5F1808	06/17/15	06/18/15	EPA 8021B	
Toluene	ND	0.00222	mg/kg dry	1	P5F1808	06/17/15	06/18/15	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P5F1808	06/17/15	06/18/15	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P5F1808	06/17/15	06/18/15	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P5F1808	06/17/15	06/18/15	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*103 %*	*75-125*		*P5F1808*	*06/17/15*	*06/18/15*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*124 %*	*75-125*		*P5F1808*	*06/17/15*	*06/18/15*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	**10.0**	0.1	%	1	P5F1601	06/16/15	06/16/15	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.8	mg/kg dry	1	P5F1806	06/17/15	06/17/15	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P5F1806	06/17/15	06/17/15	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P5F1806	06/17/15	06/17/15	TPH 8015M	
Surrogate: 1-Chlorooctane		*120 %*	*70-130*		*P5F1806*	*06/17/15*	*06/17/15*	*TPH 8015M*	
Surrogate: o-Terphenyl		*154 %*	*70-130*		*P5F1806*	*06/17/15*	*06/17/15*	*TPH 8015M*	*S-GC*
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	06/17/15	06/17/15	calc	

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2057 Commerce Street	Project Number: [none]	
Midland TX, 79703	Project Manager: Curt Stanley	

WSW @ 4'

5F11009-05 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00105	mg/kg dry	1	P5F1602	06/15/15	06/16/15	EPA 8021B	
Toluene	ND	0.00211	mg/kg dry	1	P5F1602	06/15/15	06/16/15	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P5F1602	06/15/15	06/16/15	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P5F1602	06/15/15	06/16/15	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P5F1602	06/15/15	06/16/15	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*112 %*	*75-125*		*P5F1602*	*06/15/15*	*06/16/15*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*107 %*	*75-125*		*P5F1602*	*06/15/15*	*06/16/15*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	**5.0**	0.1	%	1	P5F1601	06/16/15	06/16/15	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P5F1806	06/17/15	06/17/15	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P5F1806	06/17/15	06/17/15	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P5F1806	06/17/15	06/17/15	TPH 8015M	
Surrogate: 1-Chlorooctane		*115 %*	*70-130*		*P5F1806*	*06/17/15*	*06/17/15*	*TPH 8015M*	
Surrogate: o-Terphenyl		*147 %*	*70-130*		*P5F1806*	*06/17/15*	*06/17/15*	*TPH 8015M*	*S-GC*
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	06/17/15	06/17/15	calc	

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TRC Solutions- Midland, Texas	Project: Lynch to Jal 16-Inch Sump	Fax: (432) 520-7701
2057 Commerce Street	Project Number: [none]	
Midland TX, 79703	Project Manager: Curt Stanley	

ESW @ 4'

5F11009-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
Organics by GC									
Benzene	ND	0.00105	mg/kg dry	1	P5F1602	06/15/15	06/16/15	EPA 8021B	
Toluene	ND	0.00211	mg/kg dry	1	P5F1602	06/15/15	06/16/15	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P5F1602	06/15/15	06/16/15	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P5F1602	06/15/15	06/16/15	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P5F1602	06/15/15	06/16/15	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*87.2 %*	*75-125*		*P5F1602*	*06/15/15*	*06/16/15*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*115 %*	*75-125*		*P5F1602*	*06/15/15*	*06/16/15*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	**5.0**	0.1	%	1	P5F1601	06/16/15	06/16/15	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P5F1806	06/17/15	06/17/15	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P5F1806	06/17/15	06/17/15	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P5F1806	06/17/15	06/17/15	TPH 8015M	
Surrogate: 1-Chlorooctane		*115 %*	*70-130*		*P5F1806*	*06/17/15*	*06/17/15*	*TPH 8015M*	
Surrogate: o-Terphenyl		*146 %*	*70-130*		*P5F1806*	*06/17/15*	*06/17/15*	*TPH 8015M*	*S-GC*
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	06/17/15	06/17/15	calc	

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Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5F1602 - General Preparation (GC)										
Blank (P5F1602-BLK1)				Prepared: 06/15/15 Analyzed: 06/16/15						
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	*0.0527*		"	*0.0500*		*105*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0625*		"	*0.0500*		*125*	*75-125*			
LCS (P5F1602-BS1)				Prepared: 06/15/15 Analyzed: 06/16/15						
Benzene	0.0924	0.00100	mg/kg wet	0.100		92.4	70-130			
Toluene	0.108	0.00200	"	0.100		108	70-130			
Ethylbenzene	0.109	0.00100	"	0.100		109	70-130			
Xylene (p/m)	0.223	0.00200	"	0.200		112	70-130			
Xylene (o)	0.111	0.00100	"	0.100		111	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0607*		"	*0.0500*		*121*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.0612*		"	*0.0500*		*122*	*75-125*			
LCS Dup (P5F1602-BSD1)				Prepared: 06/15/15 Analyzed: 06/16/15						
Benzene	0.0907	0.00100	mg/kg wet	0.100		90.7	70-130	1.87	20	
Toluene	0.101	0.00200	"	0.100		101	70-130	7.04	20	
Ethylbenzene	0.101	0.00100	"	0.100		101	70-130	8.15	20	
Xylene (p/m)	0.210	0.00200	"	0.200		105	70-130	6.30	20	
Xylene (o)	0.105	0.00100	"	0.100		105	70-130	5.03	20	
Surrogate: 1,4-Difluorobenzene	*0.0588*		"	*0.0500*		*118*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0586*		"	*0.0500*		*117*	*75-125*			
Matrix Spike (P5F1602-MS1)	**Source: 5F10011-01**			Prepared: 06/15/15 Analyzed: 06/16/15						
Benzene	0.0640	0.00110	mg/kg dry	0.110	ND	58.2	80-120			QM-05
Toluene	0.0605	0.00220	"	0.110	ND	55.1	80-120			QM-05
Ethylbenzene	0.0510	0.00110	"	0.110	ND	46.5	80-120			QM-05
Xylene (p/m)	0.111	0.00220	"	0.220	ND	50.6	80-120			QM-05
Xylene (o)	0.0529	0.00110	"	0.110	ND	48.1	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	*0.0633*		"	*0.0549*		*115*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0635*		"	*0.0549*		*116*	*75-125*			

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Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5F1808 - General Preparation (GC)										
Blank (P5F1808-BLK1)				Prepared & Analyzed: 06/17/15						
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	*0.0542*		"	*0.0500*		*108*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0609*		"	*0.0500*		*122*	*75-125*			
LCS (P5F1808-BS1)				Prepared & Analyzed: 06/17/15						
Benzene	0.0948	0.00100	mg/kg wet	0.100		94.8	70-130			
Toluene	0.104	0.00200	"	0.100		104	70-130			
Ethylbenzene	0.105	0.00100	"	0.100		105	70-130			
Xylene (p/m)	0.225	0.00200	"	0.200		112	70-130			
Xylene (o)	0.105	0.00100	"	0.100		105	70-130			
Surrogate: 1,4-Difluorobenzene	*0.0602*		"	*0.0500*		*120*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0610*		"	*0.0500*		*122*	*75-125*			
LCS Dup (P5F1808-BSD1)				Prepared & Analyzed: 06/17/15						
Benzene	0.0934	0.00100	mg/kg wet	0.100		93.4	70-130	1.48	20	
Toluene	0.104	0.00200	"	0.100		104	70-130	0.280	20	
Ethylbenzene	0.103	0.00100	"	0.100		103	70-130	2.20	20	
Xylene (p/m)	0.218	0.00200	"	0.200		109	70-130	2.93	20	
Xylene (o)	0.102	0.00100	"	0.100		102	70-130	2.91	20	
Surrogate: 4-Bromofluorobenzene	*0.0602*		"	*0.0500*		*120*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.0636*		"	*0.0500*		*127*	*75-125*			*S-GC*
Matrix Spike (P5F1808-MS1)	**Source: 5F11009-04**			Prepared: 06/17/15 Analyzed: 06/18/15						
Benzene	0.0900	0.00111	mg/kg dry	0.111	ND	81.0	80-120			
Toluene	0.0908	0.00222	"	0.111	ND	81.7	80-120			
Ethylbenzene	0.0973	0.00111	"	0.111	ND	87.6	80-120			
Xylene (p/m)	0.210	0.00222	"	0.222	ND	94.7	80-120			
Xylene (o)	0.104	0.00111	"	0.111	ND	93.6	80-120			
Surrogate: 1,4-Difluorobenzene	*0.0631*		"	*0.0556*		*114*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0675*		"	*0.0556*		*121*	*75-125*			

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

Project: Lynch to Jal 16-Inch Sump
Project Number: [none]
Project Manager: Curt Stanley

Fax: (432) 520-7701

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 P5F1601 - * DEFAULT PREP *** **										
Blank (P5F1601-BLK1)				Prepared & Analyzed: 06/16/15						
% Moisture	ND	0.1	%							
Duplicate (P5F1601-DUP1)	Source: 5F10002-02			Prepared & Analyzed: 06/16/15						
% Moisture	ND	0.1	%		0.0				20	
Duplicate (P5F1601-DUP2)	Source: 5F11005-01			Prepared & Analyzed: 06/16/15						
% Moisture	10.0	0.1	%		10.0			0.00	20	
Batch P5F1605 - * DEFAULT PREP *** **										
Blank (P5F1605-BLK1)				Prepared & Analyzed: 06/16/15						
Chloride	ND	1.00	mg/kg wet							
LCS (P5F1605-BS1)				Prepared & Analyzed: 06/16/15						
Chloride	109	1.00	mg/kg wet	100		109	80-120			
LCS Dup (P5F1605-BSD1)				Prepared & Analyzed: 06/16/15						
Chloride	103	1.00	mg/kg wet	100		103	80-120	5.87	20	
Duplicate (P5F1605-DUP1)	Source: 5F15001-01			Prepared & Analyzed: 06/16/15						
Chloride	8500	55.6	mg/kg dry		8410			1.06	20	
Duplicate (P5F1605-DUP2)	Source: 5F11002-01			Prepared & Analyzed: 06/16/15						
Chloride	1190	25.3	mg/kg dry		1180			0.595	20	
Matrix Spike (P5F1605-MS1)	Source: 5F15001-01			Prepared & Analyzed: 06/16/15						
Chloride	13200	55.6	mg/kg dry	5560	8410	85.6	80-120			

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

Project: Lynch to Jal 16-Inch Sump
Project Number: [none]
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.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5F1704 - TX 1005										
Duplicate (P5F1704-DUP1)	**Source: 5F11009-03**			Prepared: 06/16/15 Analyzed: 06/17/15						
C6-C12	ND	25.8	mg/kg dry		ND				20	
>C12-C28	ND	25.8	"		ND				20	
Surrogate: 1-Chlorooctane	*212*		"	*206*		*103*	*70-130*			
Surrogate: o-Terphenyl	*136*		"	*103*		*132*	*70-130*			*S-GC*
Batch P5F1806 - TX 1005										
Blank (P5F1806-BLK1)				Prepared & Analyzed: 06/17/15						
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*135*		"	*160*		*84.5*	*70-130*			
Surrogate: o-Terphenyl	*88.0*		"	*80.0*		*110*	*70-130*			
LCS (P5F1806-BS1)				Prepared & Analyzed: 06/17/15						
C6-C12	957	25.0	mg/kg wet	1000		95.7	75-125			
>C12-C28	903	25.0	"	1000		90.3	75-125			
Surrogate: 1-Chlorooctane	*159*		"	*160*		*99.5*	*70-130*			
Surrogate: o-Terphenyl	*85.2*		"	*80.0*		*107*	*70-130*			
LCS Dup (P5F1806-BSD1)				Prepared & Analyzed: 06/17/15						
C6-C12	841	25.0	mg/kg wet	1000		84.1	75-125	12.9	20	
>C12-C28	885	25.0	"	1000		88.5	75-125	2.02	20	
Surrogate: 1-Chlorooctane	*169*		"	*160*		*106*	*70-130*			
Surrogate: o-Terphenyl	*86.4*		"	*80.0*		*108*	*70-130*			
Duplicate (P5F1806-DUP1)	**Source: 5F11016-01**			Prepared: 06/17/15 Analyzed: 06/18/15						
C6-C12	ND	25.5	mg/kg dry		ND				20	
>C12-C28	75.0	25.5	"		125			49.7	20	R4
Surrogate: 1-Chlorooctane	*153*		"	*163*		*94.0*	*70-130*			
Surrogate: o-Terphenyl	*98.5*		"	*81.6*		*121*	*70-130*			

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.

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

Project: Lynch to Jal 16-Inch Sump
Project Number: [none]
Project Manager: Curt Stanley

Fax: (432) 520-7701

Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
R4	Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
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

Report Approved By: Brent Barron Date: 6/22/2015

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.

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.

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
10014 S. County Road 1213
Midland, Texas 79706

Phone: 432-661-4184

Project Manager: Curt Stanley
Company Name: NOVA Safety and Environmental / TRCSolutions
Company Address: 2057 Commerce
City/State/Zip: Midland, Texas 79703
Telephone No: 432-520-7720
Sampler Signature:

Project Name: Lynch to Jal 16-Inch Sump
Project #: TBD
Project Loc: Lea County, NM
PO #:
Fax No:
Report Format: [x] Standard [ ] TRRP [ ] NPDES
e-mail: cdstanley@trcsolutions.com
cjbryant@paalp.com

(lab use only) ORDER #: SF11009

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge / GW = Groundwater S=Soil/Solid / NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1	8015M	TPH: TX 1005	TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	TOTAL: BTEX 8021B/5030 or BTEX 8260 X	RCI	TCLP Benzene	Chloride E 300	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
	Sample 1 @ 1'			6/8/2015	1500		1	x								Soil	X										X			X		X
	Sample 2 @ 6"			6/8/2015	1505		1	x								Soil	X										X					X
	Sample 3 @ 6"			6/8/2015	1510		1	x								Soil	X										X					X
	Sample 4 @ 5'			6/8/2015	1515		1	x								Soil	X										X					X
	WSW @ 4'			6/8/2015	1520		1	x								Soil	X										X					X
	ESW @ 4'			6/8/2015	1525		1	x								Soil	X										X					X

Special Instructions: Bill to Plains

	Date	Time		Date	Time
Relinquished by:	6/11/15	1032	Received by:		
Relinquished by:			Received by:		
Relinquished by:			Received by PBEL:	6/11/15	1032

Laboratory Comments:
Sample containers intact? Y N
VOCs Free of Headspace? Y N
Labels on container(s) Y N
Custody seals on container(s) Y N
Custody seals on cooler(s) Y N
Sample Hand Delivered by Sampler/Client Rep.? Y N
by Courier? UPS DHL FedEx Lone Star
Temperature Upon Receipt:
Received: °C
Adjusted: °C Factor

PERMIAN BASIN
ENVIRONMENTAL LAB, LP
10014 SCR 1213
Midland, TX 79706

PBELAB

Analytical Report

Prepared for:

Curt Stanley

TRC Solutions- Midland, Texas

2057 Commerce Street

Midland, TX 79703

Project: Lynch South to Jal 16-Inch Sump

Project Number: 2015-130

Location: Lea County, NM

Lab Order Number: 5F23022

NELAP ACCREDITED TNI LABORATORY

NELAP/TCEQ # T104704156-13-3

Report Date: 06/24/15

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

Project: Lynch South to Jal 16-Inch Sump
Project Number: 2015-130
Project Manager: Curt Stanley

Fax: (432) 520-7701

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Baseline SP	5F23022-01	Soil	06/22/15 13:00	06-23-2015 14:00

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

Project: Lynch South to Jal 16-Inch Sump
Project Number: 2015-130
Project Manager: Curt Stanley

Fax: (432) 520-7701

Baseline SP

5F23022-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
Organics by GC									
Benzene	ND	0.00104	mg/kg dry	1	P5F2306	06/23/15	06/24/15	EPA 8021B	
Toluene	**0.00241**	0.00208	mg/kg dry	1	P5F2306	06/23/15	06/24/15	EPA 8021B	
Ethylbenzene	**0.00529**	0.00104	mg/kg dry	1	P5F2306	06/23/15	06/24/15	EPA 8021B	
Xylene (p/m)	**0.0414**	0.00208	mg/kg dry	1	P5F2306	06/23/15	06/24/15	EPA 8021B	
Xylene (o)	**0.0168**	0.00104	mg/kg dry	1	P5F2306	06/23/15	06/24/15	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*104 %*	*75-125*		*P5F2306*	*06/23/15*	*06/24/15*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*106 %*	*75-125*		*P5F2306*	*06/23/15*	*06/24/15*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	**4.0**	0.1	%	1	P5F2402	06/24/15	06/24/15	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**92.9**	26.0	mg/kg dry	1	P5F2403	06/23/15	06/23/15	TPH 8015M	
>C12-C28	**1090**	26.0	mg/kg dry	1	P5F2403	06/23/15	06/23/15	TPH 8015M	
>C28-C35	**103**	26.0	mg/kg dry	1	P5F2403	06/23/15	06/23/15	TPH 8015M	
Surrogate: 1-Chlorooctane		*84.8 %*	*70-130*		*P5F2403*	*06/23/15*	*06/23/15*	*TPH 8015M*	
Surrogate: o-Terphenyl		*118 %*	*70-130*		*P5F2403*	*06/23/15*	*06/23/15*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**1280**	26.0	mg/kg dry	1	[CALC]	06/23/15	06/23/15	calc	

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.

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 P5F2306 - General Preparation (GC)										
Blank (P5F2306-BLK1)				Prepared: 06/23/15 Analyzed: 06/24/15						
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	*0.0558*		"	*0.0500*		*112*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0552*		"	*0.0500*		*110*	*75-125*			
LCS (P5F2306-BS1)				Prepared & Analyzed: 06/23/15						
Benzene	0.0908	0.00100	mg/kg wet	0.100		90.8	70-130			
Toluene	0.107	0.00200	"	0.100		107	70-130			
Ethylbenzene	0.110	0.00100	"	0.100		110	70-130			
Xylene (p/m)	0.217	0.00200	"	0.200		108	70-130			
Xylene (o)	0.103	0.00100	"	0.100		103	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0594*		"	*0.0500*		*119*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.0642*		"	*0.0500*		*128*	*75-125*			*S-GC*
LCS Dup (P5F2306-BSD1)				Prepared: 06/23/15 Analyzed: 06/24/15						
Benzene	0.0939	0.00100	mg/kg wet	0.100		93.9	70-130	3.37	20	
Toluene	0.110	0.00200	"	0.100		110	70-130	3.59	20	
Ethylbenzene	0.119	0.00100	"	0.100		119	70-130	7.43	20	
Xylene (p/m)	0.234	0.00200	"	0.200		117	70-130	7.58	20	
Xylene (o)	0.114	0.00100	"	0.100		114	70-130	9.96	20	
Surrogate: 1,4-Difluorobenzene	*0.0614*		"	*0.0500*		*123*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0599*		"	*0.0500*		*120*	*75-125*			
Duplicate (P5F2306-DUP1)	**Source: 5F23023-04**			Prepared: 06/23/15 Analyzed: 06/24/15						
Benzene	ND	0.00105	mg/kg dry		ND				20	
Toluene	ND	0.00211	"		ND				20	
Ethylbenzene	ND	0.00105	"		ND				20	
Xylene (p/m)	ND	0.00211	"		ND				20	
Xylene (o)	ND	0.00105	"		ND				20	
Surrogate: 1,4-Difluorobenzene	*0.0506*		"	*0.0526*		*96.2*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0674*		"	*0.0526*		*128*	*75-125*			*S-GC*

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.

TRC Solutions- Midland, Texas	Project: Lynch South to Jal 16-Inch Sump	Fax: (432) 520-7701
2057 Commerce Street	Project Number: 2015-130	
Midland TX, 79703	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 P5F2402 - * DEFAULT PREP *** **										
Blank (P5F2402-BLK1)				Prepared & Analyzed: 06/24/15						
% Moisture	ND	0.1	%							
Duplicate (P5F2402-DUP1)		**Source: 5F23021-02**		Prepared & Analyzed: 06/24/15						
% Moisture	1.0	0.1	%		1.0			0.00	20	
Duplicate (P5F2402-DUP2)		**Source: 5F23022-01**		Prepared & Analyzed: 06/24/15						
% Moisture	4.0	0.1	%		4.0			0.00	20	

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

Project: Lynch South to Jal 16-Inch Sump
Project Number: 2015-130
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.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5F2403 - TX 1005										
Blank (P5F2403-BLK1)				Prepared & Analyzed: 06/23/15						
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*90.6*		"	*100*		*90.6*	*70-130*			
Surrogate: o-Terphenyl	*64.1*		"	*50.0*		*128*	*70-130*			
LCS (P5F2403-BS1)				Prepared & Analyzed: 06/23/15						
C6-C12	814	25.0	mg/kg wet	1000		81.4	75-125			
>C12-C28	872	25.0	"	1000		87.2	75-125			
Surrogate: 1-Chlorooctane	*103*		"	*100*		*103*	*70-130*			
Surrogate: o-Terphenyl	*59.8*		"	*50.0*		*120*	*70-130*			
LCS Dup (P5F2403-BSD1)				Prepared & Analyzed: 06/23/15						
C6-C12	932	25.0	mg/kg wet	1000		93.2	75-125	13.5	20	
>C12-C28	911	25.0	"	1000		91.1	75-125	4.35	20	
Surrogate: 1-Chlorooctane	*107*		"	*100*		*107*	*70-130*			
Surrogate: o-Terphenyl	*56.0*		"	*50.0*		*112*	*70-130*			
Duplicate (P5F2403-DUP1)	**Source: 5F23020-31**			Prepared: 06/23/15 Analyzed: 06/24/15						
C6-C12	ND	29.1	mg/kg dry		ND				20	
>C12-C28	ND	29.1	"		ND				20	
Surrogate: 1-Chlorooctane	*98.9*		"	*116*		*85.0*	*70-130*			
Surrogate: o-Terphenyl	*69.2*		"	*58.1*		*119*	*70-130*			

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.

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

Project: Lynch South to Jal 16-Inch Sump
Project Number: 2015-130
Project Manager: Curt Stanley

Fax: (432) 520-7701

Notes and Definitions

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

Report Approved By: Brent Barron Date: 6/24/2015

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.

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PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
10014 S. County Road 1213
Midland, Texas 79706

Phone: 432-661-4184

Project Manager: Curt Stanley

Company Name: NOVA Safety and Environmental / TRCSolutions

Company Address: 2057 Commerce

City/State/Zip: Midland, Texas 79703

Telephone No: 432-520-7720

Fax No:

Sampler Signature:

e-mail: cdstanley@trcsolutions.com
cjbryant@paalp.com

Project Name: Lynch South to Jal 16-Inch Sump

Project #: 2015-130

Project Loc: Lea County, NM

PO #:

Report Format: [x] Standard [ ] TRRP [ ] NPDES

(lab use only)
ORDER #: 5F-23022

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	TOTAL: BTEX 8021B/5030 or BTEX 8260 X	RCI	TCLP Benzene	Chloride E 300			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	Baseline SP			6/22/2015	1300		1	x								Soil	X								X							X

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
	6/23/15	1330			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by PBEL:	Date	Time
				6/23/15	820

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on containers?	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N
by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt:
Received: 3.5 °C
Adjusted: °C Factor

PERMIAN BASIN
ENVIRONMENTAL LAB, LP
10014 SCR 1213
Midland, TX 79706

PBELAB

Analytical Report

Prepared for:

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

Project: Lynch South to Jal 16-Inch Sump
Project Number: 2015-130
Location: Lea County, New Mexico

Lab Order Number: 5G27004

NELAP/TCEQ # T104704156-13-3

Report Date: 07/31/15

TRC Solutions- Midland, Texas	Project: Lynch South to Jal 16-Inch Sump	Fax: (432) 520-7701
2057 Commerce Street	Project Number: 2015-130	
Midland TX, 79703	Project Manager: Curt Stanley	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP-1	5G27004-01	Soil	07/24/15 14:30	07-27-2015 11:30

SP-1

5G27004-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P5G3003	07/29/15	07/29/15	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P5G3003	07/29/15	07/29/15	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P5G3003	07/29/15	07/29/15	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P5G3003	07/29/15	07/29/15	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P5G3003	07/29/15	07/29/15	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*108 %*	*75-125*		*P5G3003*	*07/29/15*	*07/29/15*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*88.9 %*	*75-125*		*P5G3003*	*07/29/15*	*07/29/15*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	ND	0.1	%	1	P5G2709	07/27/15	07/28/15	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**33.1**	25.0	mg/kg dry	1	P5G3008	07/29/15	07/30/15	TPH 8015M	
>C12-C28	**1800**	25.0	mg/kg dry	1	P5G3008	07/29/15	07/30/15	TPH 8015M	
>C28-C35	**223**	25.0	mg/kg dry	1	P5G3008	07/29/15	07/30/15	TPH 8015M	
Surrogate: 1-Chlorooctane		*88.9 %*	*70-130*		*P5G3008*	*07/29/15*	*07/30/15*	*TPH 8015M*	
Surrogate: o-Terphenyl		*99.7 %*	*70-130*		*P5G3008*	*07/29/15*	*07/30/15*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**2050**	25.0	mg/kg dry	1	[CALC]	07/29/15	07/30/15	calc	

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.

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

Project: Lynch South to Jal 16-Inch Sump
Project Number: 2015-130
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
Batch P5G3003 - General Preparation (GC)										
Blank (P5G3003-BLK1)				Prepared & Analyzed: 07/29/15						
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	*0.0534*		"	*0.0600*		*89.1*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0623*		"	*0.0600*		*104*	*75-125*			
LCS (P5G3003-BS1)				Prepared & Analyzed: 07/29/15						
Benzene	0.0840	0.00100	mg/kg wet	0.100		84.0	70-130			
Toluene	0.0981	0.00200	"	0.100		98.1	70-130			
Ethylbenzene	0.110	0.00100	"	0.100		110	70-130			
Xylene (p/m)	0.219	0.00200	"	0.200		109	70-130			
Xylene (o)	0.103	0.00100	"	0.100		103	70-130			
Surrogate: 1,4-Difluorobenzene	*0.0614*		"	*0.0600*		*102*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0632*		"	*0.0600*		*105*	*75-125*			
LCS Dup (P5G3003-BSD1)				Prepared & Analyzed: 07/29/15						
Benzene	0.0815	0.00100	mg/kg wet	0.100		81.5	70-130	2.94	20	
Toluene	0.0980	0.00200	"	0.100		98.0	70-130	0.0917	20	
Ethylbenzene	0.109	0.00100	"	0.100		109	70-130	0.466	20	
Xylene (p/m)	0.219	0.00200	"	0.200		109	70-130	0.0503	20	
Xylene (o)	0.104	0.00100	"	0.100		104	70-130	0.135	20	
Surrogate: 1,4-Difluorobenzene	*0.0616*		"	*0.0600*		*103*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0633*		"	*0.0600*		*106*	*75-125*			

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.

TRC Solutions- Midland, Texas	Project: Lynch South to Jal 16-Inch Sump	Fax: (432) 520-7701
2057 Commerce Street	Project Number: 2015-130	
Midland TX, 79703	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 P5G2709 - * DEFAULT PREP *****										
Blank (P5G2709-BLK1)				Prepared: 07/27/15 Analyzed: 07/28/15						
% Moisture	ND	0.1	%							
Duplicate (P5G2709-DUP1)		**Source: 5G24010-03**		Prepared: 07/27/15 Analyzed: 07/28/15						
% Moisture	13.0	0.1	%		13.0			0.00	20	
Duplicate (P5G2709-DUP2)		**Source: 5G24010-04**		Prepared: 07/27/15 Analyzed: 07/28/15						
% Moisture	10.0	0.1	%		11.0			9.52	20	
Duplicate (P5G2709-DUP3)		**Source: 5G27001-07**		Prepared: 07/27/15 Analyzed: 07/28/15						
% Moisture	1.0	0.1	%		0.0			200	20	

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.

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

Project: Lynch South to Jal 16-Inch Sump
Project Number: 2015-130
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.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5G3008 - TX 1005										
Blank (P5G3008-BLK1)				Prepared & Analyzed: 07/29/15						
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*84.3*		"	*100*		*84.3*	*70-130*			
Surrogate: o-Terphenyl	*52.2*		"	*50.0*		*104*	*70-130*			
LCS (P5G3008-BS1)				Prepared & Analyzed: 07/29/15						
C6-C12	899	25.0	mg/kg wet	1000		89.9	75-125			
>C12-C28	916	25.0	"	1000		91.6	75-125			
Surrogate: 1-Chlorooctane	*106*		"	*100*		*106*	*70-130*			
Surrogate: o-Terphenyl	*48.6*		"	*50.0*		*97.3*	*70-130*			
LCS Dup (P5G3008-BSD1)				Prepared & Analyzed: 07/29/15						
C6-C12	853	25.0	mg/kg wet	1000		85.3	75-125	5.25	20	
>C12-C28	946	25.0	"	1000		94.6	75-125	3.24	20	
Surrogate: 1-Chlorooctane	*100*		"	*100*		*100*	*70-130*			
Surrogate: o-Terphenyl	*49.6*		"	*50.0*		*99.2*	*70-130*			

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.

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

Project: Lynch South to Jal 16-Inch Sump
Project Number: 2015-130
Project Manager: Curt Stanley

Fax: (432) 520-7701

Notes and Definitions

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

Report Approved By: Brent Barron Date: 7/31/2015

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.

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.

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
10014 S. County Road 1213
Midland, Texas 79706

Phone: 432-661-4184

Project Manager: Curt Stanley
Company Name: TRC Solutions
Company Address: 2057 Commerce
City/State/Zip: Midland, Texas 79703
Telephone No: 432-520-7720 Fax No:
Sampler Signature: for ALBERT GARCIA E-mail: cdstanley@trcsolutions.com; cibryant@paalp.com

Project Name: Lynch South to Jal 16-Inch Sump
Project #: 2015-130
Project Loc: Lea County, New Mexico
PO #:
Report Format: [x] Standard [ ] TRRP [ ] NPDES

(lab use only) ORDER #: 562704

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP: TOTAL: TPH: 418.1 / 8015M	TPH: TX 1005 / TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	TCLP Benzene	Chloride E 300			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	SP-1			7/24/2015	1430		1	X								Soil	X								X							X

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
	7/27/15	11:30			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by PBEL	Date	Time
				7/27/15	1130

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt:
Received: °C
Adjusted: 4.0 21 °C Factor NCF

PERMIAN BASIN
ENVIRONMENTAL LAB, LP
10014 SCR 1213
Midland, TX 79706

PBELAB

Analytical Report

Prepared for:

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

Project: Lynch South to Jal 16-Inch Sump
Project Number: 2015-130
Location: Lea County, NM

Lab Order Number: 5I11003

NELAP/TCEQ # T104704156-13-3

Report Date: 09/18/15

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

Project: Lynch South to Jal 16-Inch Sump
Project Number: 2015-130
Project Manager: Curt Stanley

Fax: (432) 520-7701

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP-2	5I11003-01	Soil	09/09/15 14:00	09-10-2015 10:46

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

Project: Lynch South to Jal 16-Inch Sump
Project Number: 2015-130
Project Manager: Curt Stanley

Fax: (432) 520-7701

SP-2

5I11003-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P5I1718	09/11/15	09/14/15	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P5I1718	09/11/15	09/14/15	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P5I1718	09/11/15	09/14/15	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P5I1718	09/11/15	09/14/15	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P5I1718	09/11/15	09/14/15	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*134 %*	*75-125*		*P5I1718*	*09/11/15*	*09/14/15*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*110 %*	*75-125*		*P5I1718*	*09/11/15*	*09/14/15*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	ND	0.1	%	1	P5I1406	09/14/15	09/15/15	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.0	mg/kg dry	1	P5I1109	09/11/15	09/13/15	TPH 8015M	
>C12-C28	**1170**	25.0	mg/kg dry	1	P5I1109	09/11/15	09/13/15	TPH 8015M	
>C28-C35	**217**	25.0	mg/kg dry	1	P5I1109	09/11/15	09/13/15	TPH 8015M	
Surrogate: 1-Chlorooctane		*85.0 %*	*70-130*		*P5I1109*	*09/11/15*	*09/13/15*	*TPH 8015M*	
Surrogate: o-Terphenyl		*93.5 %*	*70-130*		*P5I1109*	*09/11/15*	*09/13/15*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**1390**	25.0	mg/kg dry	1	[CALC]	09/11/15	09/13/15	calc	

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.

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 P5I1718 - General Preparation (GC)										
Blank (P5I1718-BLK1)				Prepared: 09/11/15 Analyzed: 09/14/15						
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	*0.0708*		"	*0.0500*		*142*	*75-125*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.0403*		"	*0.0500*		*80.5*	*75-125*			
LCS (P5I1718-BS1)				Prepared: 09/11/15 Analyzed: 09/14/15						
Benzene	0.0800	0.00100	mg/kg wet	0.100		80.0	70-130			
Toluene	0.103	0.00200	"	0.100		103	70-130			
Ethylbenzene	0.104	0.00100	"	0.100		104	70-130			
Xylene (p/m)	0.229	0.00200	"	0.200		114	70-130			
Xylene (o)	0.115	0.00100	"	0.100		115	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0628*		"	*0.0600*		*105*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.0654*		"	*0.0600*		*109*	*75-125*			
LCS Dup (P5I1718-BSD1)				Prepared: 09/11/15 Analyzed: 09/14/15						
Benzene	0.0802	0.00100	mg/kg wet	0.100		80.2	70-130	0.237	20	
Toluene	0.0962	0.00200	"	0.100		96.2	70-130	7.28	20	
Ethylbenzene	0.115	0.00100	"	0.100		115	70-130	10.2	20	
Xylene (p/m)	0.217	0.00200	"	0.200		108	70-130	5.40	20	
Xylene (o)	0.111	0.00100	"	0.100		111	70-130	3.34	20	
Surrogate: 1,4-Difluorobenzene	*0.0597*		"	*0.0500*		*119*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0663*		"	*0.0500*		*133*	*75-125*			*S-GC*

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.

TRC Solutions- Midland, Texas	Project: Lynch South to Jal 16-Inch Sump	Fax: (432) 520-7701
2057 Commerce Street	Project Number: 2015-130	
Midland TX, 79703	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 P5I1406 - % Solids										
Blank (P5I1406-BLK1)				Prepared: 09/14/15 Analyzed: 09/15/15						
% Moisture	ND	0.1	%							
Duplicate (P5I1406-DUP1)		Source: 5I14001-01		Prepared: 09/14/15 Analyzed: 09/15/15						
% Moisture	10.0	0.1	%		10.0			0.00	20	
Duplicate (P5I1406-DUP2)		Source: 5I14001-03		Prepared: 09/14/15 Analyzed: 09/15/15						
% Moisture	9.0	0.1	%		10.0			10.5	20	
Duplicate (P5I1406-DUP3)		Source: 5I11016-03		Prepared: 09/14/15 Analyzed: 09/15/15						
% Moisture	2.0	0.1	%		4.0			66.7	20	

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.

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

Project: Lynch South to Jal 16-Inch Sump
Project Number: 2015-130
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.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5I1109 - TX 1005										
Blank (P5I1109-BLK1)				Prepared & Analyzed: 09/11/15						
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*95.9*		"	*100*		*95.9*	*70-130*			
Surrogate: o-Terphenyl	*54.5*		"	*50.0*		*109*	*70-130*			
LCS (P5I1109-BS1)				Prepared & Analyzed: 09/11/15						
C6-C12	826	25.0	mg/kg wet	1000		82.6	75-125			
>C12-C28	917	25.0	"	1000		91.7	75-125			
Surrogate: 1-Chlorooctane	*109*		"	*100*		*109*	*70-130*			
Surrogate: o-Terphenyl	*53.8*		"	*50.0*		*108*	*70-130*			
LCS Dup (P5I1109-BSD1)				Prepared & Analyzed: 09/11/15						
C6-C12	860	25.0	mg/kg wet	1000		86.0	75-125	4.05	20	
>C12-C28	954	25.0	"	1000		95.4	75-125	3.95	20	
Surrogate: 1-Chlorooctane	*111*		"	*100*		*111*	*70-130*			
Surrogate: o-Terphenyl	*55.7*		"	*50.0*		*111*	*70-130*			
Duplicate (P5I1109-DUP1)	**Source: 5I11029-03**			Prepared: 09/11/15 Analyzed: 09/13/15						
C6-C12	142	136	mg/kg dry		31.3			128	20	
>C12-C28	7010	136	"		1370			135	20	
Surrogate: 1-Chlorooctane	*102*		"	*109*		*93.6*	*70-130*			
Surrogate: o-Terphenyl	*60.3*		"	*54.3*		*111*	*70-130*			

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.

TRC Solutions- Midland, Texas	Project: Lynch South to Jal 16-Inch Sump	Fax: (432) 520-7701
2057 Commerce Street	Project Number: 2015-130	
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.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Brent Barron Date: 9/18/2015

Brent Barron, Laboratory Director/Technical Director

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PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
10014 S. County Road 1213
Midland, Texas 79706

Phone: 432-561-4184

Project Manager: Curt Stanley

Company Name: TRC Solutions, Inc.

Company Address: 2057 Commerce Dr.

City/State/Zip: Midland/TX/79703

Telephone No: (432)5207720

Fax No:

Sampler Signature:

e-mail: cdstanley@trcsolutions.com
cjbryant@paalp.com

Project Name: Lynch South to Jal 16-Inch Sump

Project #: 2015-130

Project Loc: Lea County, New Mexico

PO #:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

(lab use only)
ORDER #: 5I11003

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	Analyze For: TCLP: TOTAL: 8015B	8015M	TPH: 418.1	TPH: TX 1005	TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 802	8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	SP-2			9/9/2015	1400		1	X									S			X										X							X

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
	9/10/15	1046			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by PBEL:	Date	Time
				9/10/15	1046

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered by Sampler/Client Rep. ?	Y	N
by Courier? UPS DHL FedEx Lone Star		

Temperature Upon Receipt:
Received: 4.0 °C
Adjusted: °C Factor

PERMIAN BASIN
ENVIRONMENTAL LAB, LP
10014 SCR 1213
Midland, TX 79706

PBELAB

Analytical Report

Prepared for:

Curt Stanley

TRC Solutions- Midland, Texas

2057 Commerce Street

Midland, TX 79703

Project: Lynch South to Jal 16-Inch Sump

Project Number: 2015-130

Location: Lea County, NM

Lab Order Number: 5J15001

NELAP/TCEQ # T104704156-13-3

Report Date: 10/16/15

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

Project: Lynch South to Jal 16-Inch Sump
Project Number: 2015-130
Project Manager: Curt Stanley

Fax: (432) 520-7701

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP-3	5J15001-01	Soil	10/13/15 14:00	10-14-2015 16:20

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

Project: Lynch South to Jal 16-Inch Sump
Project Number: 2015-130
Project Manager: Curt Stanley

Fax: (432) 520-7701

SP-3

5J15001-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
Organics by GC									
Benzene	ND	0.00103	mg/kg dry	1	P5J1608	10/15/15	10/15/15	EPA 8021B	
Toluene	**0.00422**	0.00206	mg/kg dry	1	P5J1608	10/15/15	10/15/15	EPA 8021B	
Ethylbenzene	**0.00151**	0.00103	mg/kg dry	1	P5J1608	10/15/15	10/15/15	EPA 8021B	
Xylene (p/m)	**0.0224**	0.00206	mg/kg dry	1	P5J1608	10/15/15	10/15/15	EPA 8021B	
Xylene (o)	**0.00314**	0.00103	mg/kg dry	1	P5J1608	10/15/15	10/15/15	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*127 %*	*75-125*		*P5J1608*	*10/15/15*	*10/15/15*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*114 %*	*75-125*		*P5J1608*	*10/15/15*	*10/15/15*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	**3.0**	0.1	%	1	P5J1601	10/16/15	10/16/15	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P5J1604	10/15/15	10/15/15	TPH 8015M	
>C12-C28	**198**	25.8	mg/kg dry	1	P5J1604	10/15/15	10/15/15	TPH 8015M	
>C28-C35	**44.9**	25.8	mg/kg dry	1	P5J1604	10/15/15	10/15/15	TPH 8015M	
Surrogate: 1-Chlorooctane		*101 %*	*70-130*		*P5J1604*	*10/15/15*	*10/15/15*	*TPH 8015M*	
Surrogate: o-Terphenyl		*122 %*	*70-130*		*P5J1604*	*10/15/15*	*10/15/15*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**243**	25.8	mg/kg dry	1	[CALC]	10/15/15	10/15/15	calc	

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.

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

Project: Lynch South to Jal 16-Inch Sump
Project Number: 2015-130
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
Batch P5J1608 - General Preparation (GC)										
Blank (P5J1608-BLK1)				Prepared & Analyzed: 10/15/15						
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	*0.0726*		"	*0.0500*		*145*	*75-125*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.0538*		"	*0.0500*		*108*	*75-125*			
LCS (P5J1608-BS1)				Prepared & Analyzed: 10/15/15						
Benzene	0.0824	0.00100	mg/kg wet	0.100		82.4	70-130			
Toluene	0.0994	0.00200	"	0.100		99.4	70-130			
Ethylbenzene	0.115	0.00100	"	0.100		115	70-130			
Xylene (p/m)	0.221	0.00200	"	0.200		111	70-130			
Xylene (o)	0.109	0.00100	"	0.100		109	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0737*		"	*0.0500*		*147*	*75-125*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.0535*		"	*0.0500*		*107*	*75-125*			
LCS Dup (P5J1608-BSD1)				Prepared & Analyzed: 10/15/15						
Benzene	0.0876	0.00100	mg/kg wet	0.100		87.6	70-130	6.14	20	
Toluene	0.106	0.00200	"	0.100		106	70-130	6.80	20	
Ethylbenzene	0.107	0.00100	"	0.100		107	70-130	6.40	20	
Xylene (p/m)	0.221	0.00200	"	0.200		111	70-130	0.104	20	
Xylene (o)	0.118	0.00100	"	0.100		118	70-130	8.46	20	
Surrogate: 1,4-Difluorobenzene	*0.0523*		"	*0.0500*		*105*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0784*		"	*0.0500*		*157*	*75-125*			*S-GC*

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TRC Solutions- Midland, Texas	Project: Lynch South to Jal 16-Inch Sump	Fax: (432) 520-7701
2057 Commerce Street	Project Number: 2015-130	
Midland TX, 79703	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 P5J1601 - % Solids										
Blank (P5J1601-BLK1)				Prepared & Analyzed: 10/16/15						
% Moisture	ND	0.1	%							
Duplicate (P5J1601-DUP1)		**Source: 5J15005-01**		Prepared & Analyzed: 10/16/15						
% Moisture	4.0	0.1	%		4.0			0.00	20	

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2057 Commerce Street
Midland TX, 79703

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Project Number: 2015-130
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.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5J1604 - TX 1005										
Blank (P5J1604-BLK1)				Prepared & Analyzed: 10/15/15						
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*95.1*		"	*100*		*95.1*	*70-130*			
Surrogate: o-Terphenyl	*57.4*		"	*50.0*		*115*	*70-130*			
LCS (P5J1604-BS1)				Prepared & Analyzed: 10/15/15						
C6-C12	970	25.0	mg/kg wet	1000		97.0	75-125			
>C12-C28	1000	25.0	"	1000		100	75-125			
Surrogate: 1-Chlorooctane	*104*		"	*100*		*104*	*70-130*			
Surrogate: o-Terphenyl	*53.5*		"	*50.0*		*107*	*70-130*			
LCS Dup (P5J1604-BSD1)				Prepared & Analyzed: 10/15/15						
C6-C12	1000	25.0	mg/kg wet	1000		100	75-125	2.99	20	
>C12-C28	1080	25.0	"	1000		108	75-125	7.63	20	
Surrogate: 1-Chlorooctane	*94.3*		"	*100*		*94.3*	*70-130*			
Surrogate: o-Terphenyl	*58.2*		"	*50.0*		*116*	*70-130*			
Duplicate (P5J1604-DUP1)	**Source: 5J15003-02**			Prepared & Analyzed: 10/15/15						
C6-C12	ND	30.9	mg/kg dry		ND				20	
>C12-C28	ND	30.9	"		ND				20	
Surrogate: 1-Chlorooctane	*144*		"	*123*		*117*	*70-130*			
Surrogate: o-Terphenyl	*87.0*		"	*61.7*		*141*	*70-130*			*S-GC*

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Project Number: 2015-130
Project Manager: Curt Stanley

Fax: (432) 520-7701

Notes and Definitions

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

Report Approved By: Brent Barron Date: 10/16/2015

Brent Barron, Laboratory Director/Technical Director

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PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
10014 S. County Road 1213
Midland, Texas 79706

Phone: 432-661-4184

Project Manager: Curt Stanley

Company Name: TRC Solutions, Inc.

Company Address: 2057 Commerce Dr.

City/State/Zip: Midland/TX/79703

Telephone No: (432)520-7720 Fax No:

Sampler Signature:

Project Name: Lynch South to Jal 16 Inch Sump

Project #: 2015-130

Project Loc: Lea County, New Mexico

PO #:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

e-mail: cdstanley@trcsolutions.com
cibryant@paalp.com

(lab use only)
ORDER #: 5615001

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1 8015M	TOTAL: TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides E 300			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	SP-3			10/13/2015	1400		1	X								S			X								X							X

Special Instructions:

Laboratory Comments:

Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
Labels on container(s) Y N
Custody seals on container(s) Y N
Custody seals on cooler(s) Y N
Sample Hand Delivered by Sampler/Client Rep. ? Y N
by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt:
Received: 3.0 °C
Adjusted: °C Factor NCF

Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by PBEL:	10/14/15	1620