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

State of New Mexico

APPROVED

als and Natural Re By JKeyes at 2:56 pm, Jan 19, 2016

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 N	Notification	and Corr	ective Act	ion
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		OPERATOR	Initial Report	\boxtimes	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 New Mexico State Land Mineral Owner

Lease No.

LOCATION OF RELEASE

Init LetterSectionTownslO32255	RangeFeet from the37E	North/South Line Feet from the	East/West Line	County Lea
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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?	If YES, To Whom? Verbal notification to Kellie Jone	25
By Whom? Shawn Harris	Date and Hour 06/01/2015 @	08:45 am
Was a Watercourse Reached?	If YES, Volume Impacting the W	/atercourse.
Yes X No		HOURS OLD
If a Watercourse was Impacted, Describe Fully.*		JAN 1 3 2016
Describe Cause of Problem and Remedial Action Taken.* The Rexa val into the sump. Storm also caused sump pump motor to fail resulting in c		nich caused overpressure and pop offs to relief
Describe Area Affected and Cleanup Action Taken. The released crude released fluids were contained inside the facility. The release was remer Remediation Summary and Site Closure Request dated November 2015	diated as per NMOCD recommended	
I hereby certify that the information given above is true and complete to regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by should their operations have failed to adequately investigate and remedi or the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations.	notifications and perform corrective a the NMOCD marked as "Final Report ate contamination that pose a threat to does not relieve the operator of respon-	actions for releases which may endanger t" does not relieve the operator of liability o ground water, surface water, human health onsibility for compliance with any other
Signature Camille Bryant	OIL CONSER Approved by District Supervisor:	Janiklyer
Title: Remediation Coordinator	Approval Date: 01/19/2016	Expiration Date: ///
E-mail Address: cjbryant@paalp.com Date: 12200 Phone: (575) 441-1099	Conditions of Approval: ///	Attached
Attach Additional Sheets If Necessary	1RP-366\$	

District 1 1625 N. French Dr., Hobbs, NM 88240 District 11 1301 W. Grand Avenue, Artesia, NM 88210 District 111 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

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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

OPERATOR Initial Report I Name of Company Plains Pipeline LP Contact Camile Bryant Address 2530 State Hay, 214, Deaver City, TX 79333 Telephone No. (375) 441-1099 Ease No. Surface Owner New Mexico State Land Mineral Owner Lease No. Surface Owner New Mexico State Land Mineral Owner Lease No. LOCATION OF RELEASE Unit Letter Section Township Rage Feet from the North/South Line Feet from the East/West Line County Lease 0 32 258 37E Feet from the North/South Line Feet from the East/West Line County Lease Value of Release Crude Oil Source of Release Date and Hour of Occurrence Date and Hour of Ocl/2015 @ 012015 @ 1:00 am Was Immediate Notice Given? If YES, To Whom? She and Hour of Ocl/2015 @ 08.45 am Source of Release By Whom? Shawn Harris Date and Hour of Ocl/2015 @ 08.45 am FYES, Volume Impacting the Watercourse. FIF If a Watercourse was Impacted. Describe Fully.* RECEIVED By OcD District 1 at 3:44 prn, Jun 11, Describe Crude oif Impact	J. Jt. Fishers	is Dr., Sund	116, 14141 07.50	5	Sa	nta F	e, NM 875	05				siuc	01 101
Name of Company Plains Pipeline LP Contact Camille Bryant Address 250 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 New Mexico State Land Mineral Owner Lease No. LocATION OF RELEASE Lease No. Unit Letter Section Township Range 0 32 258 37E Feet from the North/South Line Feet from the Lease No. Unit Letter Section Township Range Feet from the North/South Line Feet from the Lease Value Na 20.081636 Longitude W 103.181059° Not TURE OF RELEASE Volume Recovered 25 bbls Volume Recovered 25 bbls Source of Release Sump Date and Hour of Occurrence Date and Hour of Discovery 05/31/2015 @ 1.00 am Uf YES, To Whom? Yetal notification to Kellie Jones By Whom? Shawn Harris Date and Hour of Collease 35 bbls Volume Recovered 25 bbls By Whom? Shawn Harris Date and Hour of Collease 30 Coll 2015 @ 08.45 am If YES, Yolume Impacting the Watercourse. ERECEIVED By WocD District 1 at 3:44 pm, Jun 11,				Rele	ase Notific	atio	n and Co	rrective A	ction				
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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 sum 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 rul regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may end 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 I should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, hum or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any federal, state, or local laws and/or regulations. Signature: Signature: Merinted Name: Camille Bryant Merinted Name: Camille Bryant Merinted Name: Camille Bryant							C	-,					
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Signature: Camille Bryant Approved by District Supervisor: 09/11/2015	eral, state, o	or local lay	ws and/or reg	ulations.								-	
Printed Name: Camille Bryant Approved by District Supervisor: 09/11/2015	1		R	1				OIL CON	SERVATIO	ON DIVIS	ION		
Printed Name: Camille Bryant Approved by District Supervisor:	nature:GI	mil	N. 10	tet									
Printed Name: Camille Bryant	-			0			Approved by	District Supervis	sor: Kan	~			
Title: Remediation Coordinator Approval Date: 06/11/2015 Expiration Date:	ited Name:	Camille	Bryant			-			ph.	61			
	e: Remedi	iation Coo	rdinator				Approval Da	te: 06/11/2015	Expirat	ion Date:	/11/201	15	
E-mail Address: cjbryant@paalp.com Conditions of Approval:	ail Address	ss: cibryan	t@paalp.con	n			Conditions	f Approval.			-		
Attached L	161	L.	a paupicon			-			ate and remedi	ate		340	53
Date: 0115 Phone: (575) 441-1099 Phone: MNIOCD anides, Gentag photographs of INF5000		115			one: (575) 441-109	99	one samples r	D-guides. Caata	g photographs	of IF	(P-3668		
Attach Additional Sheets If Necessary remediation required.	ch Additid	ignal Shee	ets If Neces	sary							1151661	4143	
nKJ15166341 pKJ15166346													



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



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 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

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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.

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6.0 DISTRIBUTION

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Copy 1:	Kellie Jones
	New Mexico Oil Conservation Division (District 1)
	1625 French Drive
	Hobbs, New Mexico 88240
Copy 2:	Amber Groves
	New Mexico State Land Office
	Hobbs District Office
	2827 North Dal Paso Street #117
	Hobbs, New Mexico 88240
	agroves@slo.state.nm.us
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	2530 Hwy 214
	Denver City, Texas 79323
	cjbryant@paalp.com
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	Plains Pipeline, L.P.
	333 Clay Street, Suite 1600
	Houston, Texas 77002
	jpdann@paalp.com
Copy 5:	TRC Environmental Corporation
1.	2057 Commerce Drive
	Midland, Texas 79703
	cdstanley@trcsolutions.com





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

				M	ethods: EPA SW	846-8021B, 503	0			Me	thods:		
SAMPLE	SAMPLE	SAMPLE			ETHYL-	m,p		TOTAL		EPA SW	846-8015M		CHLORIDE
LOCATION	DATE	DEPTH (feet)	BENZENE (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)	(mg/Kg)
NMOCD Re	gulatory Guide	eline	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(1105	<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	-



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

Date: June 3, 2015

Photograph No. 1

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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.





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Photographic Documentation

Client: Plains Pipeline L.P.PreparedProject Name: Lynch South to Jal 16-Inch SumpLocation

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



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

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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/TCEQ # T104704156-13-3

Report Date: 06/22/15

Page 1 of 14

TRC Solutions- Midland, Texas 2057 Commerce Street

Midland TX, 79703

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

Fax: (432) 520-7701

ANALYTICAL REPORT FOR SAMPLES

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

TRC Solutions- Midland, Texas 2057 Commerce Street Midland TX, 79703		Project Num	ect: Lynch to ber: [none] ger: Curt Stan		ch Sump			Fax: (432) 52	0-7701
		Sam	nple 1 @ 1'						
			009-01 (Soil)						
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
	Perr	nian Basin E	Invironment	al Lab, I					
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	5	P5F1602	06/15/15	06/16/15	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		113 %	75-12	5	P5F1602	06/15/15	06/16/15	EPA 8021B	
General Chemistry Parameters by EP	A / Standard Metho	ds							
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-C3	5 by EPA Method 8	015M							
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	0	P5F1806	06/17/15	06/17/15	TPH 8015M	
Surrogate: o-Terphenyl		110 %	70-130	0	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	

TRC Solutions- Midland, Texas		Ргој	ect: Lynch to	Jal 16-In	ch Sump			Fax: (432) 52	0-7701
2057 Commerce Street		Project Num	ber: [none]						
Midland TX, 79703		Project Mana	ger: Curt Stan	ley					-
		Sam	ple 2 @ 6''						
		5F11	009-02 (Soil)						
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
	Perr	nian Basin E	Invironment	al Lab, I	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	
(ylene (p/m)	ND	0.00206	mg/kg dry	1	P5F1808	06/17/15	06/18/15	EPA 8021B	
(ylene (o)	ND	0.00103	mg/kg dry	1	P5F1808	06/17/15	06/18/15	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		121 %	75-12	5	P5F1808	06/17/15	06/18/15	EPA 8021B	
urrogate: 1,4-Difluorobenzene		96.0 % 75-125		5	P5F1808	06/17/15	06/18/15	EPA 8021B	
General Chemistry Parameters by EPA /	Standard Metho	ds							
% Moisture	3.0	0.1	%	1	P5F1601	06/16/15	06/16/15	% calculation	
Total Petroleum Hydrocarbons C6-C35	oy EPA Method 8	015M							
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	0	P5F1806	06/17/15	06/17/15	TPH 8015M	
Surrogate: o-Terphenyl		158 %	70-130	0	P5F1806	06/17/15	06/17/15	TPH 8015M	S-G
Fotal Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	06/17/15	06/17/15	calc	

Permian Basin Environmental Lab, L.P.

TRC Solutions- Midland, Texas		Proi	ect: Lynch to	Jal 16-In	ch Sump			Fax: (432) 52	0-7701
2057 Commerce Street		Project Num	-		ľ				
Midland TX, 79703		-	ger: Curt Stan	ley					
		Sam	ple 3 @ 6"						
		5F11	009-03 (Soil)						
		Reporting	•						
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
	Pern	nian Basin F	Invironment	al Lab, I	P.				
Organics by GC									
Benzene	ND	0.00103	mg/kg dry	1	P5F1602	06/15/15	06/16/15	EPA 8021B	
Foluene	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	
Kylene (p/m)	ND	0.00206	mg/kg dry	1	P5F1602	06/15/15	06/16/15	EPA 8021B	
Kylene (o)	ND	0.00103	mg/kg dry	1	P5F1602	06/15/15	06/16/15	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.3 %	75-12	5	P5F1602	06/15/15	06/16/15	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		108 %	75-12	5	P5F1602	06/15/15	06/16/15	EPA 8021B	
General Chemistry Parameters by EPA /	Standard Metho	ds							
% Moisture	3.0	0.1	%	1	P5F1601	06/16/15	06/16/15	% calculation	
Fotal Petroleum Hydrocarbons C6-C35 I	y EPA Method 8	015M			-				
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	0	P5F1704	06/16/15	06/17/15	TPH 8015M	
Fotal Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	06/16/15	06/17/15	calc	

Permian Basin Environmental Lab, L.P.

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TRC Solutions- Midland, Texas		Proj	ect: Lynch to	Jal 16-In	ch Sump			Fax: (432) 52	0-7701
2057 Commerce Street		Project Num	ber: [none]						
Midland TX, 79703		-	ger: Curt Stan	ley					
		San	ple 4 @ 5'						
		5F11	009-04 (Soil)						
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perr	n <mark>ian Basin E</mark>	Invironment	al Lab, l	L.P.				
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	ļ	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 %	75-12	5	P5F1808	06/17/15	06/18/15	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		124 %	75-12	5	P5F1808	06/17/15	06/18/15	EPA 8021B	
General Chemistry Parameters by EPA / S	Standard Metho	ds							
% Moisture	10.0	0.1	%	1	P5F1601	06/16/15	06/16/15	% calculation	
Total Petroleum Hydrocarbons C6-C35 by	EPA Method 8	015M							
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 %	70-13	0	P5F1806	06/17/15	06/17/15	TPH 8015M	
Surrogate: o-Terphenyl		154 %	70-130	0	P5F1806	06/17/15	06/17/15	TPH 8015M	S-G0
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	06/17/15	06/17/15	calc	

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								Fax: (432) 52	0-7701
TRC Solutions- Midland, Texas		5	ect: Lynch to	Jal 16-In	ch Sump			rax. (432) 32	0-7701
2057 Commerce Street		Project Num	. ,						
Midland TX, 79703		Project Mana	ger: Curt Stan	ley					
		W	SW @ 4'						
			009-05 (Soil)						
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perr	nian Basin E	Invironment	al Lab, I	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: 4-Bromofluorobenzene		112 %	75-12	5	P5F1602	06/15/15	06/16/15	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		107 %	75-12	5	P5F1602	06/15/15	06/16/15	EPA 8021B	
General Chemistry Parameters by EPA /	Standard Metho	ds							
% Moisture	5.0	0.1	%	1	P5F1601	06/16/15	06/16/15	% calculation	
Total Petroleum Hydrocarbons C6-C35 b	y EPA Method 8	015M							
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	0	P5F1806	06/17/15	06/17/15	TPH 8015M	
Surrogate: o-Terphenyl		147 %	70-130	0	P5F1806	06/17/15	06/17/15	TPH 8015M	S-G
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	06/17/15	06/17/15	calc	

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Permian Basin Environmental Lab, L.P. Organics by GC Benzene ND 0.00105 mg/kg dry 1 P5F1602 06/15/15 06/16/15 Europhic Toluene ND 0.00211 mg/kg dry 1 P5F1602 06/15/15 06/16/15 Europhic Kylene (p/m) ND 0.00211 mg/kg dry 1 P5F1602 06/15/15 06/16/15 EU Xylene (p/m) ND 0.00105 mg/kg dry 1 P5F1602 06/15/15 06/16/15 EU Surrogate: 1,4-Difluorobenzene 87.2 % 75-125 P5F1602 06/15/15 06/16/15 EU Surrogate: 4-Bromofluorobenzene 115 % 75-125 P5F1602 06/16/15 EU Surrogate: 4-Bromofluorobenzene 5.0 0.1 % 1 P5F1601 06/16/15 06/16/15 EU C6-C12 ND 26.3 mg/kg dry 1 P5F1806 06/17/15 06/17/15 TH >C12-C28 ND 26.3 <th>Fax: (432) 520-77</th> <th>-7701</th>	Fax: (432) 520-77	-7701
Midland TX, 79703 Project Manager: Curl Stanley ESW @ 4' SF11009-06 (Soil) Analyte Result Units Dilution Batch Prepared Analyzed Analyte Result Dilution Batch Prepared Analyzed Permian Basin Environmental Lab, L.P. Organics by GC Benzene ND 0.00105 mg/kg dry 1 PSF1602 o6/15/15 o6/16/15 EE Organics by GC Benzene ND 0.00105 mg/kg dry 1 PSF1602 o6/15/15 o6/16/15 EE Organics by GC State of the colspan="4">State of the colspan= the colspan= the colspan="4">State of the colspan= the colspan="		
SF11009-06 (Soil) Analyte Result Reporting Limit Dilution Batch Prepared Analyzed Analyte Result Units Dilution Batch Prepared Analyzed Dermian Basin Environmental Lab, L.P. Organies by GC Benzene ND 0.00105 mg/kg dry 1 P5F1602 06/15/15 06/16/15 Editylbenzene ND 0.00105 mg/kg dry 1 P5F1602 06/15/15 06/16/15 Editylbenzene Kylene (p/m) ND 0.00105 mg/kg dry 1 P5F1602 06/15/15 06/16/15 Editylbenzene Surrogate: 1.4-Difluorobenzene 87.2 % 75-125 P5F102 06/15/15 06/16/15 Editylbenzene % Moisture 5.0 0.1 % 1 P5F1601 06/16/15 06/16/15 Editylbenzene % Moisture 5.0 0.1 % 1 P5F1806 06/17/15 06/16/15 %		
Analyte Resoult Inits Dilution Batch Prepared Analyzed Analyte Result Units Dilution Batch Prepared Analyzed Permian Basin Environmental Lab, L.P. Organies by GC Benzene ND 0.00105 mg/kg dry 1 P5F1602 06/15/15 06/16/15 Editylonzene Toluene ND 0.00105 mg/kg dry 1 P5F1602 06/15/15 06/16/15 Editylonzene ND 0.00211 mg/kg dry 1 P5F1602 06/15/15 06/16/15 Editylonzene ND 0.00211 mg/kg dry 1 P5F1602 06/15/15 06/16/15 Editylonzene ND 0.00105 mg/kg dry 1 P5F1602 06/15/15 06/16/15 Editylonzene Y 1 P5F1602 06/15/15 06/16/15 Editylonzene Y 1 P5F1602 06/15/15 06/16/15 Editylonzene Y 1 P5F1602 06/15/15 06/		
Analyte Result Limit Units Dilution Batch Prepared Analyzed Permian Basin Environmental Lab, L.P. Organics by GC Benzene ND 0.00105 mg/kg dry 1 P5F1602 06/15/15 06/16/15 Ed. Toluene ND 0.00105 mg/kg dry 1 P5F1602 06/15/15 06/16/15 Ed. Kylene (p/m) ND 0.00211 mg/kg dry 1 P5F1602 06/15/15 06/16/15 Ed. Surrogate: 1,4-Difluorobenzene ND 0.00211 mg/kg dry 1 P5F1602 06/15/15 06/16/15 Ed. Surrogate: 1,4-Difluorobenzene 87.2 % 75-125 P5F1602 06/15/15 06/16/15 Ed. Surrogate: 4-Bromofluorobenzene 115 % 75-125 P5F1602 06/16/15 Ed. Ce-C12 ND 26.3 mg/kg dry 1 P5F1806 06/17/15 06/17/15 71 C12-C28 ND 26.3 mg/k		
Permian Basin Environmental Lab, L.P. Organics by GC Benzene ND 0.00105 mg/kg dry 1 P5F1602 06/15/15 06/16/15 Environmental Lab, L.P. Benzene ND 0.00105 mg/kg dry 1 P5F1602 06/15/15 06/16/15 Environmental Lab, L.P. Toluene ND 0.00211 mg/kg dry 1 P5F1602 06/15/15 06/16/15 El Ethylbenzene ND 0.00105 mg/kg dry 1 P5F1602 06/15/15 06/16/15 El Xylene (p/m) ND 0.00105 mg/kg dry 1 P5F1602 06/15/15 06/16/15 El Xylene (o) ND 0.00105 mg/kg dry 1 P5F1602 06/15/15 06/16/15 El Surrogate: 1,4-Difluorobenzene 87.2 % 75-125 P5F1602 06/16/15 El Surrogate: 4-Bromo/fluorobenzene 115 % 75-125 P5F1602 06/16/15 % C6-C12 ND 0.1 % 1<		
Organics by GC ND 0.00105 mg/kg dry 1 P5F1602 06/15/15 06/16/15 End Toluene ND 0.00211 mg/kg dry 1 P5F1602 06/15/15 06/16/15 End Ethylbenzene ND 0.00211 mg/kg dry 1 P5F1602 06/15/15 06/16/15 End Xylene (p/m) ND 0.00211 mg/kg dry 1 P5F1602 06/15/15 06/16/15 End Xylene (p/m) ND 0.00105 mg/kg dry 1 P5F1602 06/15/15 06/16/15 End Surrogate: 1,4-Difluorobenzene 87.2 % 75-125 P5F1602 06/15/15 06/16/15 End Surrogate: 4-Bromofluorobenzene 115 % 75-125 P5F1602 06/16/15 06/16/15 End General Chemistry Parameters by EPA / Standard Methods 115 % 75-125 P5F1601 06/16/15 06/16/15 % C6-C12 ND 26.3 mg/kg dry 1 P5F1806 06/17/15 06/17/15	Method	No
Organics by GC ND 0.00105 mg/kg dry 1 P5F1602 06/15/15 06/16/15 End Benzene ND 0.00211 mg/kg dry 1 P5F1602 06/15/15 06/16/15 End Toluene ND 0.00211 mg/kg dry 1 P5F1602 06/15/15 06/16/15 End Ethylbenzene ND 0.00211 mg/kg dry 1 P5F1602 06/15/15 06/16/15 End Xylene (p/m) ND 0.00211 mg/kg dry 1 P5F1602 06/15/15 06/16/15 End Surrogate: 1,4-Difluorobenzene 87.2 % 75-125 P5F1602 06/15/15 06/16/15 End Surrogate: 4-Bromofluorobenzene 115 % 75-125 P5F1602 06/16/15 06/16/15 End General Chemistry Parameters by EPA / Standard Methods 115 % 75-125 P5F1601 06/16/15 06/16/15 % C6-C12 ND 26.3 mg/kg dry 1 P5F1806 06/17/15 06/17/15		
Benzene ND 0.00105 mg/kg dry 1 P5F1602 06/15/15 06/16/15 End Toluene ND 0.00211 mg/kg dry 1 P5F1602 06/15/15 06/16/15 End Ethylbenzene ND 0.00105 mg/kg dry 1 P5F1602 06/15/15 06/16/15 End Xylene (p/m) ND 0.00211 mg/kg dry 1 P5F1602 06/15/15 06/16/15 End Xylene (o) ND 0.00105 mg/kg dry 1 P5F1602 06/15/15 06/16/15 End Surrogate: 1,4-Difluorobenzene 87.2 % 75-125 P5F1602 06/15/15 06/16/15 End Surrogate: 4-Bromofluorobenzene 115 % 75-125 P5F1602 06/16/15 End Surrogate: 4-Bromofluorobenzene 115 % 75-125 P5F1602 06/16/15 End Ceneral Chemistry Parameters by EPA / Standard Methods 115 % 75-125 P5F1801 06/16/15 06/17/15 Yei Moisture 5.0		
Ethylbenzene ND 0.00105 mg/kg dry 1 P5F1602 06/15/15 06/16/15 El Xylene (p/m) ND 0.00211 mg/kg dry 1 P5F1602 06/15/15 06/16/15 El Xylene (o) ND 0.00105 mg/kg dry 1 P5F1602 06/15/15 06/16/15 El Surrogate: 1,4-Difluorobenzene 87.2 % 75-125 P5F1602 06/15/15 06/16/15 El Surrogate: 4-Bromofluorobenzene 115 % 75-125 P5F1602 06/15/15 06/16/15 El General Chemistry Parameters by EPA / Standard Methods 75-125 P5F1602 06/16/15 06/16/15 El General Chemistry Parameters by EPA / Standard Methods 1 P5F1601 06/16/15 06/16/15 % C6-C12 ND 26.3 mg/kg dry 1 P5F1806 06/17/15 06/17/15 06/17/15 7 >C12-C28 ND 26.3 mg/kg dry 1 P5F1806 06/17/15 06/17/15 06/17/15 7 Surrogate: 1-Chlorooctane 115 % 70-130 </td <td>2PA 8021B</td> <td></td>	2PA 8021B	
Xylene (p/m) ND 0.000211 mg/kg dry 1 P5F1602 06/15/15 06/16/15 EI Xylene (o) ND 0.00105 mg/kg dry 1 P5F1602 06/15/15 06/16/15 EI Surrogate: 1,4-Difluorobenzene 87.2 % 75-125 P5F1602 06/15/15 06/16/15 EI Surrogate: 4-Bromofluorobenzene 115 % 75-125 P5F1602 06/16/15 EI General Chemistry Parameters by EPA / Standard Methods 1 P5F1602 06/16/15 06/16/15 EI General Chemistry Parameters by EPA / Standard Methods 5.0 0.1 % 1 P5F1601 06/16/15 06/16/15 % General Chemistry Parameters by EPA / Standard Methods 5.0 0.1 % 1 P5F1601 06/16/15 06/16/15 % General Chemistry Parameters by EPA / Standard Methods 5.0 0.1 % 1 P5F1601 06/16/15 % General Chemistry Parameters by EPA / Standard Methods 8015M 1 P5F1806 06/17/15 06/17/15 % C6-C12 ND 26.3 mg/kg dry <td>EPA 8021B</td> <td></td>	EPA 8021B	
ND 0.00105 mg/kg dry 1 P5F1602 06/15/15 06/16/15 E1 Surrogate: 1,4-Difluorobenzene 87.2 % 75-125 P5F1602 06/15/15 06/16/15 E1 Surrogate: 4-Bromofluorobenzene 115 % 75-125 P5F1602 06/15/15 06/16/15 E1 General Chemistry Parameters by EPA / Standard Methods 115 % 75-125 P5F1602 06/16/15 06/16/15 E1 General Chemistry Parameters by EPA / Standard Methods 01 % 1 P5F1602 06/16/15 06/16/15 % General Chemistry Parameters by EPA / Standard Methods 06/16/15 06/16/15 % General Chemistry Parameters by EPA / Standard Methods 06/16/15 06/16/15 % C6-C12 ND 26.3 mg/kg dry 1 P5F1806 06/17/15 06/17/15 06/17/15 TH >C12-C28 ND	EPA 8021B	
Note (b) ND 0000000 0000000 0000000 000000000000000000000000000000000000	EPA 8021B	
Surrogate: 4-Bromofluorobenzene 115 % 75-125 P5F1602 06/15/15 06/16/15 E. General Chemistry Parameters by EPA / Standard Methods 5.0 0.1 % 1 P5F1601 06/16/15 06/16/15 % % Moisture 5.0 0.1 % 1 P5F1601 06/16/15 06/16/15 % Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M E E E E E C6-C12 ND 26.3 mg/kg dry 1 P5F1806 06/17/15 06/17/15 TH >C12-C28 ND 26.3 mg/kg dry 1 P5F1806 06/17/15 06/17/15 TH >C28-C35 ND 26.3 mg/kg dry 1 P5F1806 06/17/15 06/17/15 TH Surrogate: 1-Chlorooctane 115 % 70-130 P5F1806 06/17/15 06/17/15 TH Surrogate: o-Terphenyl 146 % 70-130 P5F1806 06/17/15 06/17/15 TH	EPA 8021B	
General Chemistry Parameters by EPA / Standard Methods % Moisture 5.0 0.1 % 1 P5F1601 06/16/15 06/16/15 % Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M 1 P5F1806 06/17/15 06/17/15 TH C6-C12 ND 26.3 mg/kg dry 1 P5F1806 06/17/15 06/17/15 TH >C12-C28 ND 26.3 mg/kg dry 1 P5F1806 06/17/15 06/17/15 TH >C28-C35 ND 26.3 mg/kg dry 1 P5F1806 06/17/15 06/17/15 TH Surrogate: 1-Chlorooctane 115 % 70-130 P5F1806 06/17/15 06/17/15 TH Surrogate: o-Terphenyl 146 % 70-130 P5F1806 06/17/15 06/17/15 TH	SPA 8021B	
% Moisture 5.0 0.1 % 1 P5F1601 06/16/15 06/16/15 % 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 TH >C12-C28 ND 26.3 mg/kg dry 1 P5F1806 06/17/15 06/17/15 TH >C28-C35 ND 26.3 mg/kg dry 1 P5F1806 06/17/15 06/17/15 TH Surrogate: 1-Chlorooctane 115 % 70-130 P5F1806 06/17/15 06/17/15 TH Surrogate: o-Terphenyl 146 % 70-130 P5F1806 06/17/15 06/17/15 TH	EPA 8021B	
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 TH >C12-C28 ND 26.3 mg/kg dry 1 P5F1806 06/17/15 06/17/15 TH >C28-C35 ND 26.3 mg/kg dry 1 P5F1806 06/17/15 06/17/15 TH Surrogate: 1-Chlorooctane 115 % 70-130 P5F1806 06/17/15 06/17/15 TH Surrogate: o-Terphenyl 146 % 70-130 P5F1806 06/17/15 06/17/15 TH		
C6-C12 ND 26.3 mg/kg dry 1 P5F1806 06/17/15 06/17/15 TH >C12-C28 ND 26.3 mg/kg dry 1 P5F1806 06/17/15 06/17/15 TH >C28-C35 ND 26.3 mg/kg dry 1 P5F1806 06/17/15 06/17/15 TH Surrogate: 1-Chlorooctane 115 % 70-130 P5F1806 06/17/15 06/17/15 TH Surrogate: o-Terphenyl 146 % 70-130 P5F1806 06/17/15 06/17/15 TH	calculation	
ND 26.3 mg/kg dry 1 P5F1806 06/17/15 06/17/15 TH >C28-C35 ND 26.3 mg/kg dry 1 P5F1806 06/17/15 06/17/15 TH Surrogate: 1-Chlorooctane 115 % 70-130 P5F1806 06/17/15 06/17/15 TH Surrogate: o-Terphenyl 146 % 70-130 P5F1806 06/17/15 06/17/15 TH		
ND 26.3 mg/kg dry 1 P5F1806 06/17/15 06/17/15 TI Surrogate: 1-Chlorooctane 115 % 70-130 P5F1806 06/17/15 06/17/15 TI Surrogate: o-Terphenyl 146 % 70-130 P5F1806 06/17/15 06/17/15 TI	PH 8015M	
Surrogate: 1-Chlorooctane 115 % 70-130 P5F1806 06/17/15 TI Surrogate: o-Terphenyl 146 % 70-130 P5F1806 06/17/15 06/17/15 TI	PH 8015M	
Surrogate: o-Terphenyl 146 % 70-130 P5F1806 06/17/15 06/17/15 Th	PH 8015M	
	"PH 8015M	
	PH 8015M	<i>S</i> -
Total Petroleum Hydrocarbon C6-C35 ND 26.3 mg/kg dry 1 [CALC] 06/17/15 06/17/15	calc	

Permian Basin Environmental Lab, L.P.

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Fax: (432) 520-7701 Project: Lynch to Jal 16-Inch Sump TRC Solutions- Midland, Texas 2057 Commerce Street Project Number: [none] Project Manager: Curt Stanley Midland TX, 79703 **Organics by GC - Quality Control** Permian Basin Environmental Lab, L.P. %REC RPD Spike Reporting Source %REC RPD Limit Notes Result Limit Units Level Result Limits Analyte **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 ND 0.00100 Ethylbenzene ND 0.00200 Xylene (p/m) 0.00100 Xylene (o) ND = 0.0500 105 75-125 Surrogate: 1,4-Difluorobenzene 0.0527 0.0625 " 0.0500 125 75-125 Surrogate: 4-Bromofluorobenzene Prepared: 06/15/15 Analyzed: 06/16/15 LCS (P5F1602-BS1) Benzene 0.0924 0.00100 mg/kg wet 0.100 92.4 70-130 108 70-130 Toluene 0.108 0.00200 0.100 0.00100 109 70-130 Ethylbenzene 0.109 0.100 0.223 0.00200 0.200 112 70-130 Xylene (p/m) 11 Xylene (o) 0.111 0.00100 ... 0.100 111 70-130 75-125 Surrogate: 4-Bromofluorobenzene 0.0607 11 0.0500 121 0.0500 122 75-125 Surrogate: 1,4-Difluorobenzene 0.0612 LCS Dup (P5F1602-BSD1) Prepared: 06/15/15 Analyzed: 06/16/15 0.0907 0.00100 mg/kg wet 0.100 90.7 70-130 1.87 20 Benzene Toluene 0.101 0.00200 0.100 101 70-130 7.04 20 101 0.101 0.00100 0.100 70-130 20 Ethylbenzene 8.15 Xylene (p/m) 0.210 0.00200 -0.200 105 70-130 6.30 20 0.00100 8 105 20 Xylene (o) 0.105 0.100 70-130 5.03 Surrogate: 1,4-Difluorobenzene 0.0588 M 0.0500 118 75-125 0.0586 0.0500 117 75-125 Surrogate: 4-Bromofluorobenzene Prepared: 06/15/15 Analyzed: 06/16/15 Matrix Spike (P5F1602-MS1) Source: 5F10011-01 QM-05 0.110 ND 58.2 80-120 0.0640 0.00110 mg/kg dry Benzene QM-05 Toluene 0.0605 0.00220 0.110 ND 55.1 80-120 0.110 ND 46.5 80-120 QM-05 Ethylbenzene 0.0510 0.00110 Xylene (p/m) 0.111 0.00220 0.220 ND 50.6 80-120 QM-05 0.0529 0.00110 0.110 ND 48.1 80-120 QM-05 Xylene (o)

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0.0633

0.0635

Permian Basin Environmental Lab, L.P.

Surrogate: 1,4-Difluorobenzene

Surrogate: 4-Bromofluorobenzene

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.

75-125

75-125

115

116

0.0549

0.0549

TRC Solutions- Midland, Texas

2057 Commerce Street

Midland TX, 79703

Project: Lynch to Jal 16-Inch Sump Project Number: [none] Fax: (432) 520-7701

Organics by GC - Quality Control

Project Manager: Curt Stanley

Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	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	19							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	**							
Surrogate: 1,4-Difluorobenzene	0.0542		17	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 (0)	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	н	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-G
Matrix Spike (P5F1808-MS1)	Sou	rce: 5F11009	-04	Prepared: 0	6/17/15 A	nalyzed: 06	5/18/15			
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			

TRC Solutions- Midland, Texas 2057 Commerce Street Midland TX, 79703		Project N	Project: Lyn umber: [no anager: Cur	-	-Inch Sump				Fax: (432)	520-770
General Chem	histry Para	meters b	y EPA /	Standard	Method	ls - Qual	lity Con	trol		
	Perm	ian Basin	Enviror	nmental I	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)	Sou	rce: 5F10002	2-02	Prepared &	Analyzed:	06/16/15				
% Moisture	ND	0.1	%		0.0				20	
Duplicate (P5F1601-DUP2)	Sou	rce: 5F11005	5-01	Prepared &	Analyzed:	06/16/15				
% Moisture	10.0	0.1	%		10.0			0.00	20	
Batch P5F1605 - *** DEFAULT PREP ***										
Blank (P5F1605-BLK1) Chloride	ND	1.00	mg/kg wet	Prepared &	Analyzed:	06/16/15				
		1.00	mg/kg wet							
LCS (P5F1605-BS1)	100	1.00		Prepared &	Analyzed:		80.100			
Chloride	109	1.00	mg/kg wet	100		109	80-120			
LCS Dup (P5F1605-BSD1)				Prepared &	Analyzed:					
Chloride	103	1.00	mg/kg wet	100		103	80-120	5.87	20	
Duplicate (P5F1605-DUP1)	Sou	rce: 5F15001	1-01	Prepared &	Analyzed:	06/16/15				
Chloride	8500	55.6	mg/kg dry		8410			1.06	20	
Duplicate (P5F1605-DUP2)	Sou	rce: 5F11002	2-01	Prepared &	Analyzed:	06/16/15				
Chloride	1190	25.3	mg/kg dry		1180			0.595	20	
Matrix Spike (P5F1605-MS1)	Sou	rce: 5F1500	1-01	Prepared &	Analyzed:	06/16/15				
Chloride	13200	55.6	mg/kg dry	5560	8410	85.6	80-120			

TRC Solutions- Midland, Texas

2057 Commerce Street Midland TX, 79703

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

Fax: (432) 520-7701

Project Manager: Curt Stanley

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P5F1704 - TX 1005										
Duplicate (P5F1704-DUP1)		rce: 5F11009	-03	Prepared: (06/16/15 A	nalyzed: 06	/17/15			
C6-C12	ND	25.8	mg/kg dry		ND				20	
×C12-C28	ND	25.8	н		ND				20	
Surrogate: 1-Chlorooctane	212		"	206		103	70-130			
Surrogate: o-Terphenyl	136		"	103		132	70-130			S-0
Batch P5F1806 - TX 1005										
Blank (P5F1806-BLK1)				Prepared &	Analyzed:	06/17/15				
C6-C12	ND	25.0								
×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 &	z Analyzed:	06/17/15				
C6-C12	957	25.0	mg/kg wet	1000		95.7	75-125			
>C12-C28	903	25.0	29	1000		90.3	75-125			
Surrogate: 1-Chlorooctane	159		"	160		99.5	70-130			
Surrogate: o-Terphenyl	85.2		n	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	81	1000		88.5	75-125	2.02	20	
Surrogate: 1-Chlorooctane	169		"	160		106	70-130			
Surrogate: o-Terphenyl	86.4		n	80.0		108	70-130			
Duplicate (P5F1806-DUP1)	Sour	rce: 5F11016	-01	Prepared: (06/17/15 A	nalyzed: 06	5/18/15			
C6-C12	ND	25.5	mg/kg dry		ND				20	
>C12-C28	75.0	25.5		163	125	010	70.110	49.7	20	
Surrogate: 1-Chlorooctane	153 98.5		"	163 81.6		94.0 121	70-130 70-130			
Surrogate: o-Terphenyl	90.5			01.0		121	70-150			

Permian Basin Environmental Lab, L.P.

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:

FBarron

6/22/2015

Brent Barron, Laboratory Director/Technical Director

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

Permian Basin Environmental Lab, L.P.

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.

Date:

PBBLA Project Manager:	Curt Stanley					Permi 1001 Midia	4 S.	Cou	inty	Roa	d 1;		.ab, 1		Pr	ojec	t Na	me:		P	Lyn					sh S	ump	•
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	D CODE	Seginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered Fatal # of Containers	5	HNO	HC	H,SO,	NeOH	Na_S_O	Other (Specify)	OW-Drinking Water SL=Shudge	3W = Groundwater S=Soll/Solid UP=Non-Potable Stredie Other	TPH: 418.1 (BO15M) 801	PH: TX 1006 TX 1006	Cations (Ca, Mg, Ne, K)	Anions (Ct. SO4, Alkalinity)		Vetals: As Ag Ba Cd Cr Pb Hg Se	Semivolatiles	BTEX 8021B/\$030 or BTEX 8260		1 2 V	Chlorie E 300	•••	RUSH TAT (Pre-Sahadule) 24,
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W	SW @ 4'			6/8/2015	1520	1	1	×							Soil	X		-			-	1	X	1		-		1
ES	W@4'		-	6/8/2015	1525	1		×		-		·	-	1	Soll	X	-				-	-	X				+	+
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PERMIAN BASIN ENVIRONMENTAL LAB, LP 10014 SCR 1213 Midland, TX 79706

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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/TCEQ # T104704156-13-3

Report Date: 06/24/15

Page 1 of 8

TRC Solutions- Midland, TexasProject: Lynch South to Jal 16-Inch SumpFax: (432) 520-77012057 Commerce StreetProject Number: 2015-130Midland TX, 79703Project Manager: Curt Stanley

ANALYTICAL REPORT FOR SAMPLES

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

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Baseline SP

5F23022-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Not
	Pern	nian Basin E	nvironment	al Lab, I	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 %	75-12	5	P5F2306	06/23/15	06/24/15	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		106 %	75-12	5	P5F2306	06/23/15	06/24/15	EPA 8021B	
General Chemistry Parameters by E % Moisture	PA / Standard Method 4.0	ds 0.1	%	1	P5F2402	06/24/15	06/24/15	% calculation	
Total Petroleum Hydrocarbons C6-C			/0	1	1 51 2402	00/24/15	00/24/15	70 calculation	
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 %	70-13	0	P5F2403	06/23/15	06/23/15	TPH 8015M	
Surrogate: o-Terphenyl		118 %	70-13	0	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	



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 P5F2306 - General Preparation (Ge	C)									
Blank (P5F2306-BLK1)				Prepared: 0	6/23/15 A	nalyzed: 06	6/24/15			
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	*							
Ethylbenzene	ND	0.00100	н							
Xylene (p/m)	ND	0.00200	н							
Xylene (o)	ND	0.00100								
Surrogate: 1,4-Difluorobenzene	0.0558		"	0.0500		112	75-125			0
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	19	0.100		107	70-130			
Ethylbenzene	0.110	0.00100	11	0.100		110	70-130			
Xylene (p/m)	0.217	0.00200	53	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-G
LCS Dup (P5F2306-BSD1)				Prepared: 0	6/23/15 A	nalyzed: 06	6/24/15			
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)	Sou	rce: 5F23023	-04	Prepared: 0	6/23/15 A	nalyzed: 06	5/24/15			
Benzene	ND	0.00105	mg/kg dry		ND				20	
Toluene	ND	0.00211			ND				20	
Ethylbenzene	ND	0.00105	*1		ND				20	
Xylene (p/m)	ND	0.00211	**		ND				20	
Xylene (o)	ND	0.00105			ND				20	
Surrogate: 1,4-Difluorobenzene	0.0506		н	0.0526		96.2	75-125			
Surrogate: 4-Bromofluorobenzene	0.0674		"	0.0526		128	75-125			S-G

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

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Project: Lynch South to Jal 16-Inch Sump

Fax: (432) 520-7701

Project Number: 2015-130

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)	Sou	rce: 5F23021-	02	Prepared &	Analyzed:	06/24/15				
% Moisture	1.0	0.1	%		1.0			0.00	20	
Duplicate (P5F2402-DUP2)	Sou	rce: 5F23022-	D1	Prepared &	Analyzed:	06/24/15				
% Moisture	4.0	0.1	%		4.0			0.00	20	

Permian Basin Environmental Lab, L.P.

TRC Solutions- Midland, Texas 2057 Commerce Street Midland TX, 79703 Project: Lynch South to Jal 16-Inch Sump

Fax: (432) 520-7701

Project Number: 2015-130

Project Manager: Curt Stanley

			Environ	mentar		-				
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	19							
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	19	1000		87.2	75-125			
Surrogate: 1-Chlorooctane	103		n	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)	Sou	irce: 5F23020	-31	Prepared: (06/23/15 A	nalyzed: 06	6/24/15			
C6-C12	ND	29.1	mg/kg dry		ND				20	
>C12-C28	ND	29.1	*		ND				20	
Surrogate: 1-Chlorooctane	98.9		n	116		85.0	70-130			
Surrogate: o-Terphenyl	69.2		"	58.1		119	70-130			

Permian Basin Environmental Lab, L.P.

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-(422) 520 7701

		Project: Lynch South to Jal 16-Inch Sump Project Number: 2015-130 Project Manager: Curt Stanley	
		Notes and Definitions	
S-GC	Surrogate recovery outside of control limit	ts. The data was accepted based on valid recovery of the remaining surrogate.	
DET	Analyte DETECTED		
ND	Analyte NOT DETECTED at or above the repo	rting 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 .		
	Pa	R	
	t Approved By:	Date: 6/24/2015	
Renor	LADDOVCU DY.	Date: 6/24/2015	
Repor			
	Barron, Laboratory Director/Technical D	irector	
		irector	
Brent	Barron, Laboratory Director/Technical D		
Brent This n	Barron, Laboratory Director/Technical D	irector individual (s) or entity to whom it is addressed, and may contain	

Permian Basin Environmental Lab, L.P.

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.

10014 SCR 1213 Midland, TX 79706 432-686-7235

Page 7 of 8

Project Manager:											- -	Pre	Project Name			Example: Lynch South to Jal 16-Inch Sump											
Company Name												Pr	ojeci	t#: 2015-130									•				
Company Address:	2057 Commerce	Commerce									F	Proje	ct L	.oc: Lea County, NM													
City/State/Zip:	Midland, Texas 79703										•••	PC	0#:														
Telephone No:	472-520-7728	>	0		Fax No:										Repor	tFo	mat		Q s	tand	ard			TRR	P		IPD
Sampler Signature:	Lift-	m	S	1	e-mail:	<u>c</u>	ds	cibr	eve	@tro	SO	lutio	ns.c	om	ÚË:	-	-		1.4		Analy	78 F	or				
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		Seginning Depth	Ending Depth	Dete Sampled	Time Sampled	eld Fillered	ital #. of Containers	88		180°	HON	te _s S ₂ O ₅	tone. Mher (Specify)	W-Drinking Water SL-Sludge	W = Groundwater S=SolifSolid P=Non-Potable Specify Other	PH: 418.1 8015M 80	PH: TX 1005 TX 1006	ations (Ca, Mg, Na, N)	nions (Cl. 804, Altalinity) AD / ECD / CCC	etals: As An Ba Cri Cr Bh Hn		emivolatiles	BTEX 8021 B/5030 or BTEX 8260	RCI	TCLP Benzene Chloride E 300		
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PERMIAN BASIN ENVIRONMENTAL LAB, LP 10014 SCR 1213 Midland, TX 79706



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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

Page 1 of 8
TRC Solutions- Midland, Texas

2057 Commerce Street Midland TX, 79703

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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-1
 5G27004-01
 Soil
 07/24/15 14:30
 07-27-2015 11:30

	5G27004-01 (Soil)
	SP-1
Midland TX, 79703	Project Manager: Curt Stanley
TRC Solutions- Midland, Texas 2057 Commerce Street	Project: Lynch Sout Project Number: 2015-130

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
	Peri	nian Basin H	Environment	al Lab, 1	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 %	75-12	5	P5G3003	07/29/15	07/29/15	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		88.9 %	75-12	5	P5G3003	07/29/15	07/29/15	EPA 8021B	
General Chemistry Parameters by EF	A / Standard Metho	ls							
% Moisture	ND	0.1	%	1	P5G2709	07/27/15	07/28/15	% calculation	
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 80	15M			1				
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	

South to Jal 16-Inch Sump

Permian Basin Environmental Lab, L.P.

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.

Fax: (432) 520-7701

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 Preparatio	on (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	91							
Xylene (o)	ND	0.00100	n							
Surrogate: 1,4-Difluorobenzene	0.0534		n	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	*1	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		n	0.0600		103	75-125			
Surrogate: 4-Bromofluorobenzene	0.0633		"	0.0600		106	75-125			

Permian Basin Environmental Lab, L.P.

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

Fax: (432) 520-7701

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Project Manager: Curt Stanley

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P5G2709 - *** DEFAULT PREP ***										
Blank (P5G2709-BLK1)				Prepared: (07/27/15 A	nalyzed: 07	/28/15			
% Moisture	ND	0.1	%							
Duplicate (P5G2709-DUP1)	Sou	rce: 5G24010	03	Prepared: (07/27/15 A	nalyzed: 07	/28/15			
% Moisture	13.0	0.1	%		13.0			0.00	20	
Duplicate (P5G2709-DUP2)	Sou	rce: 5G24010	04	Prepared: (07/27/15 A	nalyzed: 07	/28/15			
% Moisture	10.0	0.1	%		11.0			9.52	20	
Duplicate (P5G2709-DUP3)	Sou	rce: 5G27001	07	Prepared: (07/27/15 A	nalyzed: 07	/28/15			
% Moisture	1.0	0.1	%		0.0			200	20	

Permian Basin Environmental Lab, L.P.

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Project: Lynch South to Jal 16-Inch Sump

Fax: (432) 520-7701

Project Number: 2015-130

Project Manager: Curt Stanley

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)			1	Prepared &	Analyzed:	07/29/15				
C6-C12	899	25.0	mg/kg wet	1000		89.9	75-125			
>C12-C28	916	25.0	n	1000		91.6	75-125			
Surrogate: 1-Chlorooctane	106		n	100		106	70-130			
Surrogate: o-Terphenyl	48.6		n	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			

Permian Basin Environmental Lab, L.P.

2057 Con	utions- Midland, Texas mmerce Street TX, 79703	Project: Project Number: Project Manager:		Fax: (432) 520-7
		Notes and Def	initions	
DET	Analyte DETECTED			
ND	Analyte NOT DETECTED at or above the reporting li	imit		
IR	Not Reported			
lry	Sample results reported on a dry weight basis			
PD	Relative Percent Difference			·
CS	Laboratory Control Spike			
MS	Matrix Spike			
Dup	Duplicate			
	Bunk			
Repor	rt Approved By:	Jarlor	Date7/31/2015	
Керо			1/31/2015	
Decet	Person Laboratory Dissator/Tashniad Director			
Brent	Barron, Laboratory Director/Technical Directo)r		
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Project Manager:	Curt Stanley					100	14 8	S. Co	junt	ty Ro 797	ad ·	iental 1213				Proje	ect N	ame		. •		•	432-6				ch Su	um
Company Name	TRC Solutions							•	•								Proj	ect #	:				2	015	-130)		
Company Address	2057 Commerce												•			Pr	ojeci	Loc				Lea	Cou	nty.	New	Mex	iço	
City/State/Zip:	Midland, Texas 79703										• •						1	PO #	_	_								
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		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Fotal #. of Containers		SONA	HCI H.SO.	HO	e ₂ S ₂ O ₃	eno	Wher (Specify) V=Drinking Water SL=Studge	V = Groundwater S=Sol/Solid	-Non-Potable Specify Other	HE 418.1 (8015M) 8	TI: IX IUU0 IX IUU0	ions (Cl, SO4, Alkalinky)	R / ESP / CEC	stals: As Ag Ba Cd Cr Pb Hg Se	latiles	imivolatiles	BUZIERS	FCLP Benzene			
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PERMIAN BASIN ENVIRONMENTAL LAB, LP 10014 SCR 1213 Midland, TX 79706

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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

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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	5111003-01	Soil	09/09/15 14:00	09-10-2015 10:46

TRC Solutions- Midland, Texas 2057 Commerce Street Midland TX, 79703		Project Num	ect: Lynch So per: 2015-130 ger: Curt Stan		16-Inch Su	mp		Fax: (432) 52	0-7701
			SP-2						
		51110	003-01 (Soil)	e					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
	Peri	mian Basin E	nvironment	al Lab, I	P .				
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P5I1718	09/11/15	09/14/15	EPA 8021B	
Foluene	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	5	P511718	09/11/15	09/14/15	EPA 8021B	S-G
Surrogate: 1,4-Difluorobenzene		110%	75-125	5	P511718	09/11/15	09/14/15	EPA 8021B	
General Chemistry Parameters by EP	A / Standard Metho	ds							
% Moisture	ND	0.1	%	1	P5I1406	09/14/15	09/15/15	% calculation	
Total Petroleum Hydrocarbons C6-C3	35 by EPA Method 8	015M							
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	P511109	09/11/15	09/13/15	TPH 8015M	-
Surrogate: 1-Chlorooctane		85.0 %	70-130	0	P511109	09/11/15	09/13/15	TPH 8015M	
Surrogate: o-Terphenyl		93.5 %	70-130		P511109	09/11/15	09/13/15	TPH 8015M	
Fotal Petroleum Hydrocarbon C6-C35	1390	25.0	mg/kg dry	1	[CALC]	09/11/15	09/13/15	calc	

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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.

Page 3 of 8

TRC Solutions- Midland, Texas 2057 Commerce Street			Project: Lyn umber: 201		Jal 16-Incl	n Sump			Fax: (432)	520-7701
Midland TX, 79703		Project Ma	anager: Cur	t Stanley						
	0	rganics by	GC - Q	uality Co	ontrol					
	Perm	nian Basin	Environ	mental I	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: ()9/11/15 A	nalyzed: 09	/14/15			
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200								
Ethylbenzene	ND	0.00100	"							
Kylene (p/m)	ND	0.00200	**							
Kylene (o)	ND	0.00100								
Surrogate: 4-Bromofluorobenzene	0.0708		#	0.0500		142	75-125			S-1
Surrogate: 1,4-Difluorobenzene	0.0403		"	0.0500		80.5	75-125			
LCS (P5I1718-BS1)				Prepared: (09/11/15 A	nalyzed: 09	/14/15			
Benzene	0.0800	0.00100	mg/kg wet	0.100		80.0	70-130			
Foluene	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		17	0.0600		109	75-125			
LCS Dup (P5I1718-BSD1)				Prepared: (09/11/15 A	nalyzed: 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	н	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	н	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-0

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.

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Midland TX, 79703

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• • 0 . Project: Lynch South to Jal 16-Inch Sump

Fax: (432) 520-7701

Project Number: 2015-130

Project Manager: Curt Stanley

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

	D h	Reporting	11-14-	Spike	Source	0/DEC	%REC	RPD	RPD Limit	Notes
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	KPD	Linnit	Notes
Batch P5I1406 - % Solids										
Blank (P5I1406-BLK1)				Prepared: (9/14/15 A	nalyzed: 09	/15/15			
% Moisture	ND	0.1	%							
Duplicate (P5I1406-DUP1)	Source	: 5114001-0	1	Prepared: (9/14/15 A	nalyzed: 09	/15/15			
% Moisture	10.0	0.1	%		10.0			0.00	20	
Duplicate (P5I1406-DUP2)	Source	e: 5I14001-0	3	Prepared: (9/14/15 A	nalyzed: 09	/15/15			
% Moisture	9.0	0.1	%		10.0			10.5	20	
Duplicate (P5I1406-DUP3)	Source	e: 5111016-0	3	Prepared: ()9/14/15 A	nalyzed: 09	/15/15			
% Moisture	2.0	0.1	%		4.0			66.7	20	

Permian Basin Environmental Lab, L.P.

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Project: Lynch South to Jal 16-Inch Sump

Fax: (432) 520-7701

Project Number: 2015-130

Project Manager: Curt Stanley

1 otal Pe	troleum Hydroca Perm	rdons Co- lian Basin					Tallty Co	ntroi		
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		n	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		H	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)	Sou	rce: 5I11029	-03	Prepared: 0	09/11/15 A	nalyzed: 09	9/13/15			
C6-C12	142	136	mg/kg dry		31.3			128	20	
>C12-C28	7010	136	12		1370			135	20	
Surrogate: 1-Chlorooctane	102		"	109		93.6	70-130			
Surrogate: o-Terphenyl	60.3		"	54.3		111	70-130			

Permian Basin Environmental Lab, L.P.

Fax: (432) 520-7701

Indiana	TX, 79703		Project Manager: Curt Stanley	
			Notes and Definitions	
-GC	Surrogate recover	y outside of control limits. Th	e data was accepted based on valid recovery of the	he remaining surrogate.
ET	Analyte DETECTE	D		
D	Analyte NOT DETH	ECTED at or above the reporting l	mit	
R	Not Reported			
ſy	Sample results repo	rted on a dry weight basis		
PD	Relative Percent Di	fference		
CS	Laboratory Control	Spike		
IS	Matrix Spike			
up	Duplicate			
		0 5		
		Rate	anon	
		Dun t		
Repor	t Approved By:		Date:	9/18/2015
		Director/Technical Direct	r	
	Barron, Laboratory			
	Barron, Laboratory			
	Barroin, Laboratory			
	Earron, Laboratory			

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Permian Basin Environmental Lab, L.P.

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10014 SCR 1213 Midland, TX 79706 432-686-7235

	BBLA Project Manager: Company Name	Curt Stanley TRC Solution		CUS	TODY	RECORD AN	D ANALYS	Per	nian 14 S	Basi	nty	Roa	nmeni d 121 6		ib, L	•			Name ject #					outh	n to	-418 Jal 1 5-13	6-Inc	ch Su	ımp	Page 8 of 8
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	City/State/Zip:	Midland/TX/7	9703		:*							· · · ·		•				•	PO	<u>ان ا</u>	•	•								_
	Telephone No: Sampler Signature:	(432)5207720	A.	20	h		Fax No		dst	anle	va	Dtrc	solut	ion	S.CC		port	Fon	nat:	X	Sta	ndar	nd			TRRP			IPDE	S
(lab use i	only)		S	· · · ·						cibn	an	t@r	baali	0.00	m	-		5.35 W			TCLP:	Ar	nalyz	ze Fo	or:		Ē	 	72 hrs	
ORDER	*51N0	\underline{co}			1			11	F	Pres	erval	tion &	# of Co	ntaine	ns	Ma	trix	80158	8	T		Hg Se	•		8260			 	* *	h
AB & (tab use only)		LD CODE		seginning Depth	Ending Depth	Date Sampled	Time Sampled	1	fotal #. of Containers	HNO	HCI	H ₂ SO4	NaOH Ma CO	None	Other (Specify)	DW-Drinking Water BL-Budge	VP=Non-Potable Sectingher	PH: 418.1 (8015M	TPH: TX 1005 TX 10	Anions (Cl. SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg	Volatiles		BTE 802 8/5030 or BTEX 8260	RCI	Chlorides		RUSH TAT (Pre-Schedule)	Standard TAT
01		SP-2				9/9/2015	1400		-	x							5	X			-		-		x	1	Ĩ		1	X
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PERMIAN BASIN ENVIRONMENTAL LAB, LP 10014 SCR 1213 Midland, TX 79706



Analytical Report

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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

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Midland TX, 79703

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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	2057 Commerce Street Project Number: 2015-130													
			SP-3											
		5J150	001-01 (Soil)											
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note					
	Peri	nian Basin E	nvironment	al Lab, I										
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	5	P5J1608	10/15/15	10/15/15	EPA 8021B	S-0					
Surrogate: 1,4-Difluorobenzene		114 %	75-125	5	P5J1608	10/15/15	10/15/15	EPA 8021B						
General Chemistry Parameters by El	PA / Standard Metho	ds				_								
% Moisture	3.0	0.1	%	1	P5J1601	10/16/15	10/16/15	% calculation						
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 8	015M							_					
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						

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Midland TX, 79703

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Project: Lynch South to Jal 16-Inch Sump Project Number: 2015-130 Fax: (432) 520-7701

Organics by GC - Quality Control

Project Manager: Curt Stanley

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	n (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-G(
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-GO
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	н	0.100		107	70-130	6.40	20	
Xylene (p/m)	0.221	0.00200		0.200		111	70-130	0.104	20	
Xylene (0)	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-GO

Permian Basin Environmental Lab, L.P.

Midland TX, 79703

Project: Lynch South to Jal 16-Inch Sump

Fax: (432) 520-7701

Project Number: 2015-130

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)	Sou	rce: 5J15005-0)1	Prepared &	Analyzed	10/16/15				
% Moisture	4.0	0.1	%		4.0			0.00	20	

Permian Basin Environmental Lab, L.P.

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Project: Lynch South to Jal 16-Inch Sump

Fax: (432) 520-7701

Project Number: 2015-130

Project Manager: Curt Stanley

Total Pet	roleum Hydroca	rbons C6-	C35 by	EPA Met	hod 801	5M - Qu	ality Co	ntrol		
	Perm	ian Basin	Enviro	nmental I	.ab, 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	н	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)	Sou	rce: 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-G

Permian Basin Environmental Lab, L.P.

: (432) 520-7701 -

	tions- Midland, Texas amerce Street TX, 79703	Project: Lynch South to Jal 16-Inch Sump Project Number: 2015-130 Project Manager: Curt Stanley	Fax: (432) 520-17
		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 ba	asis	
RPD	Relative Percent Difference		
LCS	Laboratory Control Spike		
MS	Matrix Spike		
Dup	Duplicate		
	0 -	P	
	Bren	Tom	
Report	Approved By:	Date: <u>10/16/2015</u>	
Brent H	Barron, Laboratory Director/Technic	al Director	
		f the individual (s) or entity to whom it is addressed, and may contain	
inform	ation that is privileged and confident	tial.	
If you	have received this material in error.	please notify us immediately at 432-686-7235.	

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10014 SCR 1213 Midland, TX 79706 432-686-7235

Page 7 of 8

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;	Company Name	TRC Solutions, Inc	L.			· .								-			Pro	ject i	#:				2	2015	5-130	0		
	Company Address	2057 Commerce D	Ir.											_		Pr	ojec	t Lo	c:			Lea	Cou	unty,	New	Mexi	ico	
	City/State/Zip:	Midland/TX/79703															• .	PO	#:							-		
	Telephone No:	(432)5207720	2			Fax No	:		_						Re	port	Form	net:	D	Sta	ndaro	4	I	Пт	RRP			NPDE
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