State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

				Sector Sector	e, NM 875					
		Rele	ease Notifi	cation	and Co	orrective A	ction			
					OPERA			nitial Report	\boxtimes	Final Repo
Name of Company:						amille Bryant				
Address: 2530 State						No.: (575) 441-	1099			
Facility Name: Jal	Fank Farm Ta	nk Booste	er 1287		Facility Typ	e: Pump				
Surface Owner: Pla	ns Pipeline, L	P.	Mineral	Owner			API	No.30-025-1	2803	
			LOC	ATION	N OF REI	EASE				
Unit Letter Section	Township	Range	Feet from the		South Line	Feet from the	East/West Lin	e County		
P 32	255	37E						Lea		
		I	Latitude N 32	.08076°	Longitud	le W 103.1780)7°			
			NAT	TURE	OF RELI	EASE				
Type of Release: Cruc						Release: 10 bbls	Volun	ne Recovered:	0 bbls	
Source of Release: Pu					Date and H	lour of Occurrent	ce: Date a	nd Hour of Di		
	C ! 2				2/21/2015		2/21/2	015 @ 1030		
Was Immediate Notic		Yes [No 🗌 Not R	equired	If YES, To Verbal noti	Whom? ification to Bill S	onnamaker (Vo	icemail)		
By Whom? Camille H				equireu		Iour 2/21/2015 @				
Was a Watercourse Re						olume Impacting		HOBBSO	CD	
		Yes 🛛	No							
			n Taken.* The pu	ımp drive	er on (electric		failed which tra	insferred misal	ignment,	
vibration to the pump ignite. The release wa Describe Area Affecte The area of impact wa laboratory and analyze remediated in an on-si	and mechanical s confined inside d and Cleanup A s excavated and ed for concentra te treatment cell	seal assem e the firew Action Tak I soil samp tions of B7 I and utiliz	n Taken.* The pu hbly and caused s all at the facility. ten.* les were collecte FEX and TPH. Ir ed as backfill wit	imp drive subsequer . The fire d from th addition	er on (electric nt seal failure was extingui was floor and/on n, select samp	motor) bearings Failure of the m shed and the seal r sidewalls of the les were analyzed	failed which tra aechanical seal a , motor, and pip excavation. So d for concentrati	I samples were	ignment, oil to esca l. e submitta e. Excava	ed to the ted soil w
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By Kellie Jones at 3:20 pm, Oct 22, 2015

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

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

Form C-141 Revised October 10, 2003

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

			OPERA	FOR	Initial Rep	ort	Final Report
Name of Company	Plains Pipeline LP		Contact	Camille Bryant			
Address	2530 State Hwy. 214, D	enver City, TX 79323	Telephone N	No. (575) 441-1099			
Facility Name	Jal Tank Farm Tank		Facility Typ	e Pump			
Surface Owner Plai	ins Pineline L.P	Mineral Own	er		Lease No.		

Mineral Owner Surface Owner Plains Pipeline, LP

LOCATION OF RELEASE

						T	1	
Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
Unit Letter	Section	Township	Range	I cot monn the	A TOT THE OCCUT METER			
D	22	255	37E					Lea
r r	32	233	JIL					

Latitude N 32.08076° Longitude W 103.17807°

NATURE OF RELEASE

Type of Release Crude Oil		Volume of Release 10 bbls	Volume Recovered 0 bbls
Source of Release Pump		Date and Hour of Occurrence	Date and Hour of Discovery
Source of Release I amp		02/21/2015 @ 10:30	02/21/2015 @ 10:30
Was Immediate Notice Given?	·····	If YES, To Whom?	
Yes No Not 1	Required	Verbal notification to Bill Sonnar	naker (voicemail)
	1	Date and Hour 02/21/2015 @	12:00
By Whom? Camille Bryant			
Was a Watercourse Reached?		If YES, Volume Impacting the W	alercourse.
If a Watercourse was Impacted, Describe Fully.*	(DEC	FUICO	
It a watercourse was impacted, seconde i any.	REC	EIVED	
	-	D. D. Obardina at 0:46 am	Mar 11 2015
	ByOC	D; Dr. Oberding at 9:46 am	, mai 11, 2015
Describe Cause of Problem and Remedial Action Taken.*	The pump dr	iver on (electric motor) bearings faile	ed which transferred misalignment, heat, and
vibration to the nump and mechanical seal assembly and ca	used subsequ	ent seal failure. Failure of the mechan	nical seal allowed crude oil to escape and
ignite. The release was confined inside the firewall at the fa	cility. The fin	re was extinguished and the seal, mot	or and pipe was replaced.
Describe Area Affected and Cleanup Action Taken. The rel	leased crude	oil was contained inside the firewall	of the facility. The impacted area will be
remediated as per applicable NMOCD guidelines.			
Temediated as per appreadie integer gatestines			
I hereby certify that the information given above is true and	d complete to	the best of my knowledge and under	stand that pursuant to NMOCD rules and
regulations all operators are required to report and/or file of	ertain release	notifications and perform corrective	actions for releases which may endanger
public health or the environment. The acceptance of a C-1	41 report by 1	he NMOCD marked as "Final Repor	t" does not relieve the operator of hability
should their operations have failed to adequately investigat	e and remedi	ate contamination that pose a threat the	o ground water, surface water, numan nearth
or the environment. In addition, NMOCD acceptance of a	C-141 report	does not relieve the operator of respe	onsibility for compliance with any other
federal, state, or local laws and/or regulations.			
		OIL CONSEI	RVATION DIVISION
(Doo K.A		OIL CONSEI	RVATION DIVISION
Signature: Gmllo Burt		<u>OIL CONSE</u>	RVATION DIVISION
Signature: amile Laget			
		OIL CONSE	RVATION DIVISION
Signature: Camille Bryant		Approved by District Supervisor:	The And Phil

E-mail Address: cjbryant@paalp.com		Conditions of Approval:	Attached	
31.1.5		Site samples required. Delineate and remediate	1RP-3570	
Date: 310 5	Phone: (575) 441-1099	area as per NMOCD guides.	IRP-3370	34053

* Attach Additional Sheets If Necessary

nTO1508239951

fTO1508239710

pTO1508240264

Stanley, Curtis D.

From: Sent: To: Subject: Camille J Bryant <CJBryant@paalp.com> Thursday, June 18, 2015 10:44 AM Stanley, Curtis D. Fwd: Plains Jal Tank Farm Booster 1287 1R-3570

Sent from my iPhone

Begin forwarded message:

From: "Oberding, Tomas, EMNRD" <<u>Tomas.Oberding@state.nm.us</u>> Date: June 18, 2015 at 9:09:53 AM MDT To: Camille J Bryant <<u>CJBryant@paalp.com</u>> Subject: RE: Plains Jal Tank Farm Booster 1287 1R-3570

Good morning Camille! Thank you for the update. OCD approves the backfill. Be safe out there please. Cheers -Tomas

Tomáš 'Doc' Oberding PhD Hydrologist, Adv-District 1 Oil Conservation Division, EMNRD (505) 476-3403 E-Mail: <u>tomas.oberding@state.nm.us</u> 一期一会

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

Please note:

-The OCD is no longer granting "risk-based," or standard closure of events/RPs with remediation deferred to site abandonment/sale/closure. The RP will remain open until such time as historic contamination is addressed.

-Geotagged photographic documentation is stipulated for all events involving liquids.

If you have any questions or concerns, and for notification, please contact me.

From: Camille J Bryant [mailto:CJBryant@paalp.com] Sent: Thursday, June 18, 2015 7:51 AM To: Oberding, Tomas, EMNRD Subject: Plains Jal Tank Farm Booster 1287 1R-3570

Good Morning Tomas,

Please find attached the Soil Chemistry Table for the Plains Jal Tank Farm Booster 1287 Release Site 1R-3570. As per our discussion, Plains respectfully requests NMOCD approval to backfill the excavated area with the remediated stockpiled soil. Please contact me with any questions.

Respectfully,

Camille J. Bryant

Remediation Coordinator Plains All American 2530 State Highway 214 Denver City, Texas 79323 Office: 806.592.2555 Cell: 575.441.1099 Fax: 806.592.7479 Email: cjbryant@paalp.com

Attention:

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

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REMEDIATION SUMMARY AND SITE CLOSURE REQUEST

JAL TANK FARM TANK BOOSTER 1287 UNIT LETTER "P", SECTION 32, TOWNSHIP 25 SOUTH, RANGE 37 EAST LEA COUNTY, NEW MEXICO

SRS #: 2015-044 NMOCD Reference: 1RP-3570

HOBBS OCD

OCT 2 0 2015

Prepared for:

RECEIVED

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

Prepared by:

TRC Environmental Corporation 2057 Commerce Drive Midland, Texas 79703

October 2015

Curt D. Stanley

Senior Project Manager

Brittan K. Byerly, P.G. Managing Principal

TABLE OF CONTENTS

1.0	INTRODUCTION AND BACKGROUND	1
2.0	NMOCD SITE CLASSIFICATION	1
3.0	SUMMARY OF FIELD ACTIVITIES	
4.0	SITE CLOSURE REQUEST	3
	LIMITATIONS	
6.0	DISTRIBUTION	4

FIGURES

Figure 1:	Site Location Map
Figure 2:	Site Details and Confirmation Soil Sample Location Map

TABLES

Table 1:Concentrations of BTEX, TPH and Chloride in Soil

APPENDICES

Appendix A:	Site Photographs
Appendix B:	Laboratory Analytical Data
Appendix C:	Release Notification and Corrective Action (Form C-141)

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 Jal Tank Farm Tank Booster 1287 (SRS: 2015-044). The Release Site is located approximately three (3) miles south of Jal, New Mexico, in Unit Letter "P", Section 32, Township 25 South, Range 37 East. A topographic location map and site map depicting the soil sample locations are provided as Figures 1 and 2, respectively. The Release Site is located on property owned by Plains All American Pipeline (Plains). On February 21, 2015, bearings on a pump driver (electric motor) failed, which resulted in the misalignment and vibration of the pump assembly. These factors, along with the resulting heat generated, caused the failure of the mechanical seal assembly. The failure of the mechanical seal allowed crude oil to be released and ignite. The release was confined inside the secondary containment of the facility. Approximately ten (10) bbls of crude oil was released and none was recovered during the initial response activities, resulting in a net loss of approximately ten (10) bbls of crude oil. An area of impact measuring approximately six (6) to twenty-five (25) feet in width and two hundred fifty (250) feet in length was observed on the ground surface. Site photographs are provided as Appendix A. The Release Notification and Corrective Action (Form C-141) is included 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, 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 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 March 12, 2015, remediation activities commenced at the Release Site. Impacted soil was hand excavated near and under the aboveground pipeline and a backhoe was utilized in open areas. The completed excavation measured approximately six (6) feet to twenty-five (25) feet in width, two-hundred fifty seven (257) feet in length and approximately six (6) inches to four and one half (4.5) feet in depth. Impacted soil was stockpiled on plastic to the south of the excavation outside of the secondary containment wall.

On March 31, 2015, eight (8) sidewall soil samples (NSW-2 @ 2', SSW-2 @ 2.5', NSW-3 @ 3', SSW-3 @ 3', NSW-4 @ 4', SSW-4 @ 4', NSW-5 @ 3.5', and SSW-5 @ 3.5') were collected and submitted to the laboratory 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. The analytical results indicated benzene and BTEX concentrations were less than the appropriate laboratory method detection limit (MDL) for all submitted soil samples. TPH concentrations were less than the laboratory method detection limit (MDL) for all soil samples, with the exception of soil sample NSW-2 @ 2' which exhibited TPH concentration of 113.2 mg/Kg. Please reference Figure 2 for soil sample locations. A table summarizing Concentrations BTEX, TPH, and Chloride in Soil is provided as Table 1. Laboratory Analytical Reports are provided as Appendix B.

On March 31, 2015, six (6) excavation floor soil samples (Floor-1 @ 1', Floor-2 @ 2.5', Floor-3 @ 3.5', Floor-4 @ 4.5', Floor-5 @ 4', and Floor-6 @ 1') were collected and submitted to the laboratory for BTEX and TPH analysis. The analytical results indicated benzene, BTEX and TPH concentrations were less than the appropriate laboratory MDL for all submitted soil samples. In addition, soil sample Floor-1 @ 1' was analyzed for concentrations of chloride. The analytical results indicated the chloride concentration for soil sample Floor-1 @ 1' was 4.33 mg/Kg. Please reference Figure 2 for soil sample locations.

Based on the analytical results of the March 31, 2015 soil sampling event, no additional excavation was warranted.

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 augmented with high nitrogen fertilizer to expedite the bioremediation of the impacted soil. A total of approximately 508 cubic yards (cy) of impacted soil was excavated from the Release Site and treated in the treatment cell.

On May 15, 2015, one (1) – five (5) point composite soil sample (SP-1) was collected from the on-site treatment cell and submitted to the laboratory for analysis. The analytical results indicated benzene and BTEX concentrations were less than the appropriate laboratory MDL and the TPH concentration was 281.925 mg/Kg. Based on the analytical results, the remediated soil within the treatment cell was deemed suitable for use as backfill.

On June 18, 2015, Plains requested and received permission from the NMOCD, to backfill the excavation with the remediated soil stockpiled south of the excavation outside of the secondary containment wall.

From July 7, 2015 through July 17, 2015, excavation backfilling activities were conducted.

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 Jal Tank Farm Tank Booster 1287 release of February 21, 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, NM 88240
Copy 2:	Camille Bryant
	Plains Pipeline, L.P.
	2530 Hwy 214
	Denver City, Texas 79323
Copy 3:	Jeff Dann
	Plains Pipeline, L.P.
	333 Clay Street, Suite 1600
	Houston, TX 77002
	jpdann@paalp.com
Copy 4:	TRC Environmental Corporation
	2057 Commerce Drive
	Midland, TX 79703
	cdstanley@trcsolutions.com



TABLE 1 CONCENTRATIONS OF BTEX, TPH AND CHLORIDE IN SOIL

JAL TANK FARM TANK BOOSTER #1287 PLAINS PIPELINE, L.P. LEA COUNTY, NM NMOCD Reference Number 1RP-3570 PLAINS SRS NUMBER: 2015-044

				Me	Methods: EPA SW 846-8021B, 5030	846-8021B, 5030				Met	Methods.		Mathada.
SAMPLE	SAMPLE	SAMPLE DEPTH	BENZENE	TOLLENE	ETHYL-	m,p,		TOTAL		EPA SW	EPA SW 846-8015M		E300
	DALE	(feet)	(mg/Kg)	(mg/Kg)	BENZENE (mg/Kg)	XYLENE (mg/Kg)	(mg/Kg)	BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	ORO (mg/Kg)	HdT	Chloride mg/Kg
NMOCD Regulatory Guideline	ulatory Guide	line	10			•		50				1 000	JED.
Floor-1 @ 1'	03/31/15	11	<0.00108	210000	00100							1,000	007
Floor-2 @ 2 5'	03/31/15	13 0	010000	C1700.0	\$0100.0×	<0.00215	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	4.33
IL C L MON		C.2	cninn.u>	<0.00211	<0.00105	<0.00211	<0.00105	<0.00211	<26.3	<26.3	<26.3	<263	
7 0 7-4 04	C1/16/60	.7	<0.00104	<0.00208	<0.00104	<0.00208	<0.00104	<0.00208	<26.0	77.5	357	113.7	
.C.7 (a) 7-M CC	03/31/15	2.5'	<0.00106	<0.00106	<0.00213	<0.00106	<0.00213	<0.00213	9902	276.6	2966	7.011	
Floor-3 @ 3.5'	03/31/15	3.5'	<0.00108	<0.00215	<0.00108	<0.00215	<0.00108	<0.00715	0.962	0.02	0.02	0.02	
NSW-3 @ 3'	03/31/15	3'	<0.00104	<0.00208	<0.00104	<0.00208	<0.00104	00000	0.02	20.9	6.02	<26.9	
SSW-3 @ 3'	03/31/15	3'	<0.00104	<0.00208	<0.00104	000000	101000/	0.00000	0.07	<20.0	<26.0	<26.0	
Floor-4 @ 4.5'	03/31/15	4 5'	<0.001.02	200000	401000	007000	20.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	
NCW A GA	21/10/00	2.4	C0100.02	20.200	£0100.0>	<0.00206	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	
+ m + w c	C1/16/60	4	<0.00104	<0.00208	<0.00104	<0.00208	<0.00104	<0.00208	<26.0	<26.0	<26.0	090>	
SSW-4 (a) 4	03/31/15	4'	<0.00103	<0.00206	<0.00103	<0.00206	<0.00103	<0.00206	<25.8	\$ 505	0.02	0.02	
Floor-5 @ 4'	03/31/15	4'	<0.00104	<0.00208	<0.00104	<0.00208	<0.00104	00000V	0.20	0.00	0.02	0.07	
NSW-5 @ 3.5'	03/31/15	3.5'	<0.00105	<0.00711	<0.00105	<0.00011	-01000-	110000	20.0	1.02	<20.0	<26.0	
SSW-5 @ 3.5'	03/31/15	3 51	<0.00105	1170000	20100.02	11700.0		<0.00211	<26.3	<26.3	<26.3	<26.3	
Floor 6 @ 1'	01/10/00		CO TOO 0	11700.0	CUIUU.U>	<0.00211	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	
1 00 0-1001	CT/1C/CD	-	<0.00108	<0.00215	<0.00108	<0.00215	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	
SP-1	05/15/15		<0.00106	<0.00213	<0.00106	<0.00213	<0.00106	<0.00713	<76 506	736 51	AE 416	701 005	
									010.04	10.007	1 014.04	C76.187	

Page 1 of 1



Photographic Documentation

Client: Plains Pipeline L.P. Project Name: Jal Tank Farm Tank Booster 1287 **Prepared by:** TRC Environmental Corp. **Location:** Lea County, NM





Photographic Documentation

Client: Plains Pipeline L.P. Project Name: Jal Tank Farm Tank Booster 1287 **Prepared by:** TRC Environmental Corp. **Location:** Lea County, NM



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



Analytical Report

Prepared for:

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

Project: Plains Jal Tank Farm Tank Booster 1287 Project Number: SRS# 2015-044 Location: Lea County, NM

Lab Order Number: 5D01008



NELAP/TCEQ # T104704156-13-3

Report Date: 04/07/15

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

Project: Plains Jal Tank Farm Tank Booster 1287 Project Number: SRS# 2015-044 Project Manager: Curt Stanley

Fax: (432) 520-7701

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Floor-1 @ 1'	5D01008-01	Soil	03/31/15 14:00	04-01-2015 14:16
Floor-2 @ 2.5'	5D01008-02	Soil	03/31/15 14:05	04-01-2015 14:16
NSW-2 @ 2'	5D01008-03	Soil	03/31/15 14:10	04-01-2015 14:16
SSW-2 @ 2.5'	5D01008-04	Soil	03/31/15 14:15	04-01-2015 14:16
Floor-3 @ 3.5'	5D01008-05	Soil	03/31/15 14:20	04-01-2015 14:16
NSW-3 @ 3'	5D01008-06	Soil	03/31/15 14:25	04-01-2015 14:16
SSW-3 @ 3'	5D01008-07	Soil	03/31/15 14:30	04-01-2015 14:16
Floor-4 @ 4.5'	5D01008-08	Soil	03/31/15 14:35	04-01-2015 14:16
NSW-4 @ 4'	5D01008-09	Soil	03/31/15 14:40	04-01-2015 14:16
SSW-4 @ 4'	5D01008-10	Soil	03/31/15 14:45	04-01-2015 14:16
Floor-5 @ 4'	5D01008-11	Soil	03/31/15 14:50	04-01-2015 14:16
NSW-5 @ 3.5'	5D01008-12	Soil	03/31/15 14:55	04-01-2015 14:16
SSW-5 @ 3.5'	5D01008-13	Soil	03/31/15 15:00	04-01-2015 14:16
Floor-6 @ 1'	5D01008-14	Soil	03/31/15 15:05	04-01-2015 14:16

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

Floor-1 @ 1' 5D01008-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Peri	nian Basin I	Environmer	ntal Lab, 1	L.P.				
Organics by GC		Sec.							
Benzene	ND	0.00108	mg/kg dry	1	P5D0705	04/07/15	04/07/15	EPA 8021B	
Toluene	ND	0.00215	mg/kg dry	1	P5D0705	04/07/15	04/07/15	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P5D0705	04/07/15	04/07/15	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P5D0705	04/07/15	04/07/15	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P5D0705	04/07/15	04/07/15	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		94.3 %	75-1	25	P5D0705	04/07/15	04/07/15	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		83.8 %	75-1	25	P5D0705	04/07/15	04/07/15	EPA 8021B	
General Chemistry Parameters by EPA	/ Standard Metho	ds	What he						
% Moisture	7.0	0.1	%	1	P5D0201	04/02/15	04/02/15	% calculation	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 8	015M	he he had						
C6-C12	ND	26.9	mg/kg dry	1	P5D0609	04/01/15	04/02/15	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P5D0609	04/01/15	04/02/15	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P5D0609	04/01/15	04/02/15	TPH 8015M	
Surrogate: 1-Chlorooctane		96.9 %	70-1.	30	P5D0609	04/01/15	04/02/15	TPH 8015M	1.1.1.1.
Surrogate: o-Terphenyl		112 %	70-1.	30	P5D0609	04/01/15	04/02/15	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	04/01/15	04/02/15	calc	

Permian Basin Environmental Lab, L.P.

TRC Solutions- Midland, Texas 2057 Commerce Street Midland TX, 79703		Project Nun Project Mana		Fax: (432) 520-77					
			or-2 @ 2.5 1008-02 (So						
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin I	Environmer	ntal Lab, 1	L.P.				
Organics by GC									
Benzene	ND	0.00105	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Toluene	ND	0.00211	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Kylene (p/m)	ND	0.00211	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
(o)	ND	0.00105	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
urrogate: 1,4-Difluorobenzene		97.2%	75-1	25	P5D0703	04/06/15	04/06/15	EPA 8021B	
urrogate: 4-Bromofluorobenzene		90.8 %	75-1.		P5D0703	04/06/15	04/06/15	EPA 8021B EPA 8021B	
General Chemistry Parameters by EPA	Standard Method	ls							
% Moisture	5.0	0.1	%	1	P5D0201	04/02/15	04/02/15	% calculation	
Total Petroleum Hydrocarbons C6-C35	oy EPA Method 80)15M							
C6-C12	ND	26.3	mg/kg dry	1	P5D0609	04/01/15	04/02/15	TPH 8015M	
·C12-C28	ND	26.3	mg/kg dry	1	P5D0609	04/01/15	04/02/15	TPH 8015M	
C28-C35	ND	26.3	mg/kg dry	1	P5D0609	04/01/15	04/02/15	TPH 8015M	
urrogate: 1-Chlorooctane		71.0 %	70-13	30	P5D0609	04/01/15	04/02/15	TPH 8015M	
urrogate: o-Terphenyl		82.4 %	70-13	30	P5D0609	04/01/15	04/02/15	TPH 8015M	
otal Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	04/01/15	04/02/15	calc	

TRC Solutions- Midland, Texas 2057 Commerce Street Midland TX, 79703		Fax: (432) 5	20-7701						
			SW-2 @ 2' 1008-03 (Soil)				6.4	
		5001	1000-05 (501	.)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Peri	nian Basin I	Environmen	tal Lab, 1	L. P.				
Organics by GC									
Benzene	ND	0.00104	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Foluene	ND	0.00208	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Kylene (p/m)	ND	0.00208	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
(o)	ND	0.00104	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
urrogate: 1,4-Difluorobenzene		99.3 %	75-12	5	P5D0703	04/06/15	04/06/15	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		94.4 %	75-12	5	P5D0703	04/06/15	04/06/15	EPA 8021B	
General Chemistry Parameters by EP.	A / Standard Metho	ds							
% Moisture	4.0	0.1	%	1	P5D0201	04/02/15	04/02/15	% calculation	
Total Petroleum Hydrocarbons C6-C3	5 by EPA Method 8	015M							
C6-C12	ND	26.0	mg/kg dry	1	P5D0609	04/01/15	04/02/15	TPH 8015M	
C12-C28	77.5	26.0	mg/kg dry	1	P5D0609	04/01/15	04/02/15	TPH 8015M	
C28-C35	35.7	26.0	mg/kg dry	1	P5D0609	04/01/15	04/02/15	TPH 8015M	
urrogate: 1-Chlorooctane		79.1 %	70-13	0	P5D0609	04/01/15	04/02/15	TPH 8015M	
urrogate: o-Terphenyl		91.6%	70-13	0	P5D0609	04/01/15	04/02/15	TPH 8015M	
'otal Petroleum Hydrocarbon '6-C35	113	26.0	mg/kg dry	1	[CALC]	04/01/15	04/02/15	calc	

TRC Solutions- Midland, Texas 2057 Commerce Street Midland TX, 79703		Fax: (432) 52	20-7701						
			W-2 @ 2.5' 008-04 (Soil))					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perr	nian Basin H	Environment	al Lab, I	L.P.				
Organics by GC									
Benzene	ND	0.00106	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Toluene	ND	0.00213	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		93.8 %	75-12	5	P5D0703	04/06/15	04/06/15	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		87.7 %	75-12.	5	P5D0703	04/06/15	04/06/15	EPA 8021B	
General Chemistry Parameters by EPA	Standard Metho	ds							
% Moisture	6.0	0.1	%	1	P5D0201	04/02/15	04/02/15	% calculation	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 8	015M							
C6-C12	ND	26.6	mg/kg dry	1	P5D0603	04/02/15	04/02/15	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P5D0603	04/02/15	04/02/15	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P5D0603	04/02/15	04/02/15	TPH 8015M	
Surrogate: 1-Chlorooctane		112 %	70-13	0	P5D0603	04/02/15	04/02/15	TPH 8015M	
Surrogate: o-Terphenyl		133 %	70-13	0	P5D0603	04/02/15	04/02/15	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	04/02/15	04/02/15	calc	

TRC Solutions- Midland, Texas		Proj	ect: Plains J	al Tank Fa	rm Tank Bo	oster 1287		Fax: (432) 52	20-7701
2057 Commerce Street		Project Num							
Midland TX, 79703		Project Mana	ger: Curt Sta	anley					
		Flo	or-3 @ 3.5	•					
			.008-05 (So						
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Peri								
Organics by GC									
Benzene	ND	0.00108	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Toluene	ND	0.00215	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		91.7 %	75-1	25	P5D0703	04/06/15	04/06/15	EPA 8021B	1
Surrogate: 4-Bromofluorobenzene		93.1 %	75-1	25	P5D0703	04/06/15	04/06/15	EPA 8021B	
General Chemistry Parameters by EPA	/ Standard Metho	ds	an line						
% Moisture	7.0	0.1	%	1	P5D0201	04/02/15	04/02/15	% calculation	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 8	015M		C. A. B.					
C6-C12	ND	26.9	mg/kg dry	1	P5D0603	04/02/15	04/02/15	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P5D0603	04/02/15	04/02/15	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P5D0603	04/02/15	04/02/15	TPH 8015M	
Surrogate: 1-Chlorooctane		111 %	70-1	30	P5D0603	04/02/15	04/02/15	TPH 8015M	1.1.8
Surrogate: o-Terphenyl		132 %	70-1	30	P5D0603	04/02/15	04/02/15	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	04/02/15	04/02/15	calc	

TRC Solutions- Midland, Texas 2057 Commerce Street Midland TX, 79703		Fax: (432) 520-7701													
			W-3 @ 3' 008-06 (Soil)											
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes						
	Pern	Permian Basin Environmental Lab, L.P.													
Organics by GC				1.19											
Benzene	ND	0.00104	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B							
Toluene	ND	0.00208	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B							
Ethylbenzene	ND	0.00104	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B							
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B							
Xylene (o)	ND	0.00104	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B							
Surrogate: 1,4-Difluorobenzene		97.1 %	75-12	5	P5D0703	04/06/15	04/06/15	EPA 8021B							
Surrogate: 4-Bromofluorobenzene		91.1 %	75-12	5	P5D0703	04/06/15	04/06/15	EPA 8021B							
General Chemistry Parameters by EPA	/ Standard Metho	ds	in the state						AND						
% Moisture	4.0	0.1	%	1	P5D0201	04/02/15	04/02/15	% calculation							
Total Petroleum Hydrocarbons C6-C35	by EPA Method 8	015M													
C6-C12	ND	26.0	mg/kg dry	1	P5D0603	04/02/15	04/02/15	TPH 8015M							
>C12-C28	ND	26.0	mg/kg dry	1	P5D0603	04/02/15	04/02/15	TPH 8015M							
>C28-C35	ND	26.0	mg/kg dry	1	P5D0603	04/02/15	04/02/15	TPH 8015M							
Surrogate: 1-Chlorooctane	-	107 %	70-13	0	P5D0603	04/02/15	04/02/15	TPH 8015M	3						
Surrogate: o-Terphenyl		125 %	70-13	0	P5D0603	04/02/15	04/02/15	TPH 8015M							
Total Petroleum Hydrocarbon C6-C35	ND 26.0 mg/kg dry 1 [CALC] 04/02/15 04/02/15							calc							

TRC Solutions- Midland, Texas		Proj	ect: Plains Jal	Tank Fa	rm Tank Bo	oster 1287		Fax: (432) 52	20-7701					
2057 Commerce Street		Project Num	ber: SRS# 201	15-044										
Midland TX, 79703		Project Mana	ger: Curt Stan	ley										
		SS	W-3 @ 3'											
			008-07 (Soil)											
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note					
	Trobust	Dilit	Cinto	Diluton	Duton	Tiopulou	1 mary 200	Moulou	Hote					
	Pern	Permian Basin Environmental Lab, L.P.												
Organics by GC	1.4.1													
Benzene	ND	0.00104	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B						
Toluene	ND	0.00208	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B						
Ethylbenzene	ND	0.00104	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B						
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B						
Xylene (o)	ND	0.00104	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B						
Surrogate: 1,4-Difluorobenzene		89.4 %	75-12:	5	P5D0703	04/06/15	04/06/15	EPA 8021B						
Surrogate: 4-Bromofluorobenzene		96.7 %	75-12:	5	P5D0703	04/06/15	04/06/15	EPA 8021B						
General Chemistry Parameters by EPA	Standard Metho	ls	120					1 den	1					
% Moisture	4.0	0.1	%	1	P5D0201	04/02/15	04/02/15	% calculation						
Total Petroleum Hydrocarbons C6-C35	by EPA Method 8	015M	in a street in					South States						
C6-C12	ND	26.0	mg/kg dry	1	P5D0603	04/02/15	04/02/15	TPH 8015M	194					
C12-C28	ND	26.0	mg/kg dry	1	P5D0603	04/02/15	04/02/15	TPH 8015M						
>C28-C35	ND	26.0	mg/kg dry	1	P5D0603	04/02/15	04/02/15	TPH 8015M						
Surrogate: 1-Chlorooctane		106 %	70-130)	P5D0603	04/02/15	04/02/15	TPH 8015M						
Surrogate: o-Terphenyl		125 %	70-130)	P5D0603	04/02/15	04/02/15	TPH 8015M						
Fotal Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	04/02/15	04/02/15	calc						

TRC Solutions- Midland, Texas 2057 Commerce Street Midland TX, 79703		Fax: (432) 52	20-7701						
			or-4 @ 4.5 .008-08 (So						
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Peri								
Organics by GC									
Benzene	ND	0.00103	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Toluene	ND	0.00206	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		85.0 %	75-1	25	P5D0703	04/06/15	04/06/15	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-1	25	P5D0703	04/06/15	04/06/15	EPA 8021B	
General Chemistry Parameters by EPA	Standard Metho	ds							
% Moisture	3.0	0.1	%	1	P5D0201	04/02/15	04/02/15	% calculation	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 8	015M							
C6-C12	ND	25.8	04/02/15	TPH 8015M					
C12-C28	ND	25.8	mg/kg dry mg/kg dry	1	P5D0603 P5D0603	04/02/15 04/02/15	04/02/15	TPH 8015M	
C28-C35	ND	25.8	mg/kg dry	1	P5D0603	04/02/15	04/02/15	TPH 8015M	
Surrogate: 1-Chlorooctane		110 %	70-1	30	P5D0603	04/02/15	04/02/15	TPH 8015M	
Surrogate: o-Terphenyl		133 %	70-1		P5D0603	04/02/15	04/02/15	TPH 8015M	S-GC
Fotal Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	04/02/15	04/02/15	calc	500

TRC Solutions- Midland, Texas 2057 Commerce Street Midland TX, 79703		5	ect: Plains Ja ber: SRS# 20 ger: Curt Sta	015-044	rm Tank Boo	oster 1287		Fax: (432) 52	20-7701
			W-4 @ 4' 008-09 (Soil	1)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Peri	nian Basin E	Invironmen	tal Lab, 1	L. P.				
Organics by GC			No.						
Benzene	ND	0.00104	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Toluene	ND	0.00208	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		93.2 %	75-12	25	P5D0703	04/06/15	04/06/15	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		92.4 %	75-12	25	P5D0703	04/06/15	04/06/15	EPA 8021B	
General Chemistry Parameters by EPA	/ Standard Metho	ds							
% Moisture	4.0	0.1	%	1	P5D0201	04/02/15	04/02/15	% calculation	
Fotal Petroleum Hydrocarbons C6-C35	by EPA Method 8	015M				÷			
C6-C12	ND	26.0	mg/kg dry	1	P5D0603	04/02/15	04/02/15	TPH 8015M	
C12-C28	ND	26.0	mg/kg dry	1	P5D0603	04/02/15	04/02/15	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P5D0603	04/02/15	04/02/15	TPH 8015M	
Surrogate: 1-Chlorooctane		105 %	70-13	30	P5D0603	04/02/15	04/02/15	TPH 8015M	
Surrogate: o-Terphenyl		128 %	70-13	30	P5D0603	04/02/15	04/02/15	TPH 8015M	
Fotal Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	04/02/15	04/02/15	calc	

TRC Solutions- Midland, Texas		Proj	ect: Plains Ja	al Tank Fa	rm Tank Bo	oster 1287		Fax: (432) 520-7701					
2057 Commerce Street		5	ber: SRS# 20										
Midland TX, 79703		Project Mana	ger: Curt Sta	nley									
		SS	W-4 @ 4'										
			008-10 (Soi	I)									
Analyte	D k	Reporting	TT . 14	D1.4	Del								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note				
	Permian Basin Environmental Lab, L.P.												
Organics by GC													
Benzene	ND	0.00103	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B					
Toluene	ND	0.00206	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B					
Ethylbenzene	ND	0.00103	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B					
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B					
Xylene (o)	ND	0.00103	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B					
Surrogate: 1,4-Difluorobenzene		88.8 %	75-12	25	P5D0703	04/06/15	04/06/15	EPA 8021B					
Surrogate: 4-Bromofluorobenzene		99.4 %	75-12	25	P5D0703	04/06/15	04/06/15	EPA 8021B					
General Chemistry Parameters by EPA	Standard Metho	ls		i la la									
% Moisture	3.0	0.1	%	1	P5D0201	04/02/15	04/02/15	% calculation					
Total Petroleum Hydrocarbons C6-C35	by EPA Method 8	015M											
C6-C12	ND	25.8	mg/kg dry	1	P5D0603	04/02/15	04/02/15	TPH 8015M					
C12-C28	ND	25.8	mg/kg dry	1	P5D0603	04/02/15	04/02/15	TPH 8015M					
>C28-C35	ND	25.8	mg/kg dry	1	P5D0603	04/02/15	04/02/15	TPH 8015M					
Surrogate: 1-Chlorooctane		106 %	70-13	80	P5D0603	04/02/15	04/02/15	TPH 8015M					
Surrogate: o-Terphenyl		127 %	70-13	80	P5D0603	04/02/15	04/02/15	TPH 8015M					
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	04/02/15	04/02/15	calc					

TRC Solutions- Midland, Texas 2057 Commerce Street Midland TX, 79703	Project: Plains Jal Tank Farm Tank Booster 1287 Project Number: SRS# 2015-044 Project Manager: Curt Stanley									
			oor-5 @ 4' 008-11 (Soil))						
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	0.00104	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B		
Toluene	ND	0.00208	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B		
Ethylbenzene	ND	0.00104	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B		
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B		
Xylene (o)	ND	0.00104	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B		
Surrogate: 1,4-Difluorobenzene		90.3 %	75-12	5	P5D0703	04/06/15	04/06/15	EPA 8021B	. 4	
Surrogate: 4-Bromofluorobenzene		89.1 %	75-12:	5	P5D0703	04/06/15	04/06/15	EPA 8021B		
General Chemistry Parameters by EPA	Standard Metho	ds								
% Moisture	4.0	0.1	%	1	P5D0201	04/02/15	04/02/15	% calculation		
Total Petroleum Hydrocarbons C6-C35	by EPA Method 8	015M								
C6-C12	ND	26.0	mg/kg dry	1	P5D0603	04/02/15	04/03/15	TPH 8015M		
>C12-C28	ND	26.0	mg/kg dry	1	P5D0603	04/02/15	04/03/15	TPH 8015M		
>C28-C35	ND	26.0	mg/kg dry	1	P5D0603	04/02/15	04/03/15	TPH 8015M		
Surrogate: 1-Chlorooctane		107 %	70-130)	P5D0603	04/02/15	04/03/15	TPH 8015M		
Surrogate: o-Terphenyl		129 %	70-130)	P5D0603	04/02/15	04/03/15	TPH 8015M		
Fotal Petroleum Hydrocarbon C6-C35	ND	ND 26.0 mg/kg dry 1 [CALC] 04/02/15 04/03/15								

TRC Solutions- Midland, Texas			ect: Plains J		rm Tank Bo	oster 1287		Fax: (432) 5	20-7701			
2057 Commerce Street		Project Num										
Midland TX, 79703		Project Mana	ger: Curt St	anley								
		NS	W-5 @ 3.5	•								
		5D01	008-12 (So	il)								
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	P5D0703	04/06/15	04/06/15	EPA 8021B				
Toluene	ND	0.00211	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B				
Ethylbenzene	ND	0.00105	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B				
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B				
Xylene (o)	ND	0.00105	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B				
Surrogate: 4-Bromofluorobenzene		87.5 %	75-1	25	P5D0703	04/06/15	04/06/15	EPA 8021B				
Surrogate: 1,4-Difluorobenzene		98.6 %	75-1	25	P5D0703	04/06/15	04/06/15	EPA 8021B				
General Chemistry Parameters by EPA	Standard Metho	ls										
% Moisture	5.0	0.1	%	1	P5D0201	04/02/15	04/02/15	% calculation				
Total Petroleum Hydrocarbons C6-C35	by EPA Method 8	015M										
C6-C12	ND	26.3	mg/kg dry	1	P5D0603	04/02/15	04/03/15	TPH 8015M	3376.			
>C12-C28	ND	26.3	mg/kg dry	1	P5D0603	04/02/15	04/03/15	TPH 8015M				
>C28-C35	ND	26.3	mg/kg dry	1	P5D0603	04/02/15	04/03/15	TPH 8015M				
Surrogate: 1-Chlorooctane	-	104 %	70-1.	30	P5D0603	04/02/15	04/03/15	TPH 8015M	N. T			
Surrogate: o-Terphenyl		124 %	70-1.	30	P5D0603	04/02/15	04/03/15	TPH 8015M				
Fotal Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	04/02/15	04/03/15	calc				

TRC Solutions- Midland, Texas		Proj		Fax: (432) 520-7701					
2057 Commerce Street		-	ber: SRS# 20						
Midland TX, 79703		Project Mana	ger: Curt Sta	nley					
		551	W-5 @ 3.5'						
			.008-13 (Soil)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perr	nian Basin H	Environmen	tal Lab, 1	L.P.				
Organics by GC									
Benzene	ND	0.00105	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Toluene	ND	0.00211	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		91.9%	75-12	5	P5D0703	04/06/15	04/06/15	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		89.2 %	75-12	5	P5D0703	04/06/15	04/06/15	EPA 8021B	
General Chemistry Parameters by EPA	/ Standard Metho	ls							
% Moisture	5.0	0.1	%	1	P5D0201	04/02/15	04/02/15	% calculation	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 8)15M							
C6-C12	ND	26.3	mg/kg dry	1	P5D0603	04/02/15	04/03/15	TPH 8015M	
C12-C28	ND	26.3	mg/kg dry	1	P5D0603	04/02/15	04/03/15	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P5D0603	04/02/15	04/03/15	TPH 8015M	
Surrogate: 1-Chlorooctane		109 %	70-13	0	P5D0603	04/02/15	04/03/15	TPH 8015M	
Surrogate: o-Terphenyl		129 %	70-13	0	P5D0603	04/02/15	04/03/15	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	04/02/15	04/03/15	calc	

TRC Solutions- Midland, Texas 2057 Commerce Street Midland TX, 79703	Fax: (432) 5	20-7701							
			oor-6 @ 1' 1008-14 (So						
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Peri	mian Basin I	Environmer	tal Lab, 1	L.P.				
Organics by GC									
Benzene	ND	0.00108	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Toluene	ND	0.00215	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P5D0703	04/06/15	04/06/15	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		89.9 %	75-1	25	P5D0703	04/06/15	04/06/15	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		102 %	75-1		P5D0703	04/06/15	04/06/15	EPA 8021B EPA 8021B	
General Chemistry Parameters by EPA	Standard Method	ds							
% Moisture	7.0	0.1	%	1	P5D0201	04/02/15	04/02/15	% calculation	100
Fotal Petroleum Hydrocarbons C6-C35	by EPA Method 80	015M							
C6-C12	ND	26.9	mg/kg dry	1	P5D0603	04/02/15	04/02/15	TPH 8015M	-
C12-C28	ND	26.9	mg/kg dry	1	P5D0603	04/02/15	04/03/15	TPH 8015M TPH 8015M	
C28-C35	ND	26.9	mg/kg dry	1	P5D0603	04/02/15	04/03/15 04/03/15	TPH 8015M TPH 8015M	
Surrogate: 1-Chlorooctane		104 %	70-13		P5D0603	04/02/15	04/03/15		1 1 1
Surrogate: o-Terphenyl		125 %	70-13	-	P5D0603	04/02/15	04/03/15	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	04/02/15	04/03/15	TPH 8015M calc	

TRC Solutions- Midland, Texas 2057 Commerce Street Midland TX, 79703	Project: Plains Jal Tank Farm Tank Booster 1287 Fax: (43 Project Number: SRS# 2015-044 Project Manager: Curt Stanley										
	O	ganics by	v GC - (Quality Co	ontrol				`		
				nmental		.					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch P5D0703 - General Preparatio	n (GC)			. She							
Blank (P5D0703-BLK1)				Prepared 8	Analyzad	04/06/16					
Benzene	ND	0.00100	mg/kg wet	Prepared &	Analyzed	04/06/15					
Toluene	ND	0.00200	mg/kg wei								
Ethylbenzene	ND	0.00100									
Xylene (p/m)	ND	0.00200									
Kylene (o)	ND	0.00100	"								
Surrogate: 4-Bromofluorobenzene	0.0607		"	0.0600		101	75 105				
Surrogate: 1,4-Difluorobenzene	0.0516		"	0.0600		101 86.0	75-125 75-125				
LCS (P5D0703-BS1)							75-125				
Benzene	0.105	0.00100		Prepared &	Analyzed:						
Coluene	0.113	0.00100	mg/kg wet			105	70-130				
Ethylbenzene	0.111	0.00200		0.100		113	70-130				
Kylene (p/m)	0.225	0.00200	"	0.100 0.200		111	70-130				
Kylene (o)	0.115	0.00100		0.100		112 115	70-130				
urrogate: 4-Bromofluorobenzene	0.0631		"	0.0600			70-130				
urrogate: 1,4-Difluorobenzene	0.0599		"	0.0600		105 99.8	75-125 75-125				
CS Dup (P5D0703-BSD1)				Prepared &	Analyzad	04/06/15					
enzene	0.0941	0.00100	mg/kg wet	0.100	Anaryzeu.	94.1	70 120	10.7			
oluene	0.102	0.00200	"	0.100		102	70-130	10.7	20		
thylbenzene	0.111	0.00100	"	0.100		111	70-130 70-130	10.0	20		
ylene (p/m)	0.220	0.00200	"	0.200		110	70-130	0.0360	20		
ylene (o)	0.108	0.00100	"	0.100		108	70-130	2.14 6.00	20		
urrogate: 1,4-Difluorobenzene	0.0574		"	0.0600		95.7		0.00	20		
rrogate: 4-Bromofluorobenzene	0.0662		"	0.0600		110	75-125 75-125				
latrix Spike (P5D0703-MS1)	Source	e: 5D02006-	05	Proparad: 0/	106/15	-11-04	107115				
enzene	1.99		mg/kg dry	Prepared: 04 0.106							
bluene	3.66	0.0426	"	0.106	0.0300	NR	80-120			QM-	
hylbenzene	3.27	0.0213		0.106	0.446 0.507	NR	80-120			QM-	
ylene (p/m)	6.54	0.0426	"	0.213	1.84	NR NR	80-120			QM-	
vlene (o)	2.82	0.0213	"	0.106	0.546	NR	80-120 80-120			QM-	
rrogate: 4-Bromofluorobenzene	0.0581		"	0.0638	0.040					QM-0	
rrogate: 1,4-Difluorobenzene	0.0513		"	0.0638		91.0 80.4	75-125 75-125				

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

Project: Plains Jal Tank Farm Tank Booster 1287 Project Number: SRS# 2015-044 Project Manager: Curt Stanley

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit		Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5D0705 - General Preparation (GC)				74/200						110103
Blank (P5D0705-BLK1)				Proparad P	Analasi	04/07/14				
Benzene	ND	0.00100	mg/kg wet	T lepared &	Analyzed:	04/07/15				
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200								
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	69.7		ug/kg	(0.0						
Surrogate: 1,4-Difluorobenzene	56.5		ug/kg "	60.0		116	75-125			
CE (DED0705 DG1)	00.0			60.0		94.2	75-125			
LCS (P5D0705-BS1)				Prepared &	Analyzed:	04/07/15				
	0.0811	0.00100	mg/kg wet	0.100		81.1	70-130			
Toluene	0.0991	0.00200	"	0.100		99.1	70-130			
Ethylbenzene	0.108	0.00100	"	0.100		108	70-130			
Kylene (p/m)	0.204	0.00200	"	0.200		102				
Kylene (o)	0.103	0.00100		0.100		102	70-130			
urrogate: 1,4-Difluorobenzene	55.8		ug/kg	60.0			70-130			
urrogate: 4-Bromofluorobenzene	57.8		"	60.0		93.0	75-125			
CS Dup (P5D0705-BSD1)				00.0		96.4	75-125			
enzene				Prepared &	Analyzed: 0	4/07/15				
bluene	0.0914	0.00100	mg/kg wet	0.100		91.4	70-130	12.0	20	
	0.108	0.00200	"	0.100		108	70-130	8.68	20	
hylbenzene	0.114	0.00100	"	0.100		114	70-130	5.60		
ylene (p/m)	0.238	0.00200	"	0.200		119	70-130		20	
ylene (o)	0.118	0.00100	"	0.100		119	70-130	15.5	20	
rrogate: 1,4-Difluorobenzene	55.1		ug/kg	60.0				13.1	20	
rrogate: 4-Bromofluorobenzene	63.0		"	60.0		91.8	75-125			
				00.0		105	75-125			

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.

TRC Solutions- Midland, Texas 2057 Commerce Street Midland TX, 79703	Project: Plains Jal Tank Farm Tank Booster 1287 Project Number: SRS# 2015-044 Project Manager: Curt Stanley	Fax: (432) 520-7701
C 1 C		

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		RPD	
Batch P5D0201 - *** DEFAULT PREP ***				Lever	Kesuit	70KEC	Limits	RPD	Limit	Notes
Blank (P5D0201-BLK1)				Prepared &	Analyzed	04/02/15				
% Moisture	ND	0.1	%		rinaryzou.	04/02/15				
Duplicate (P5D0201-DUP1)	Sou	rce: 5D01004-()1	Prepared &	Analyzed:	04/02/15				
% Moisture	2.0	0.1	%		2.0			0.00	20	
Duplicate (P5D0201-DUP2)	Sour	ce: 5D01005-1	7	Prepared &	Analyzed:	04/02/15				
% Moisture	ND	0.1	%		0.0				20	-
Duplicate (P5D0201-DUP3)	Sour	ce: 5D01008-1	4	Prepared &	Analyzed	04/02/15				
% Moisture	7.0	0.1	%		7.0	04/02/15		0.00	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.

Project: Plains Jal Tank Farm Tank Booster 1287 Project Number: SRS# 2015-044 Project Manager: Curt Stanley

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian	Basin	Environmental Lab, L.P.	
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Analyte	Result	Reporting Limit		Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch P5D0603 - TX 1005				1. 1. 1. 1.	1						
Blank (P5D0603-BLK1)				Prepared &	k Analyzed:	04/02/15					
C6-C12	ND	25.0	mg/kg we		c Analyzeu.	04/02/15					
>C12-C28	ND	25.0	0.0								
>C28-C35	ND	25.0									
Surrogate: 1-Chlorooctane	112		"	100							
Surrogate: o-Terphenyl	65.2		"	50.0		112	70-130				
				50.0		130	70-130				
LCS (P5D0603-BS1)				Prepared &	Analyzed:	04/02/15					
C6-C12	805	25.0	mg/kg wet			80.5	75-125				
>C12-C28	901	25.0	"	1000		90.1	75-125				
Surrogate: 1-Chlorooctane	126		"	100		126	70-130				
Surrogate: o-Terphenyl	62.4		"	50.0		125	70-130				
LCS Dup (P5D0603-BSD1)							70-150				
C6-C12	778			Prepared &	Analyzed:	04/02/15		-			
C12-C28	892	25.0	mg/kg wet			77.8	75-125	3.34	20		
Surrogate: 1-Chlorooctane		25.0	"	1000		89.2	75-125	0.983	20		
	123		"	100		123	70-130				
urrogate: o-Terphenyl	61.6		"	50.0		123	70-130				
Matrix Spike (P5D0603-MS1)	Sou	rce: 5D02011	-01	Prepared: 04	1/02/15 4-	-h 1. 0.4	102 11 5				
C6-C12	845	26.0	mg/kg dry	1040	ND					1	
C12-C28	1020	26.0	"	1040		81.1	75-125				
urrogate: 1-Chlorooctane	117	20.0	"		132	85.4	75-125			1 1	
urrogate: o-Terphenyl	54.5		"	104		112	70-130				
	54.5		"	52.1		105	70-130				
latrix Spike Dup (P5D0603-MSD1)	Sour	ce: 5D02011.	-01	Prepared: 04/02/15 Analyzed: 04/03/15							
6-C12	848	26.0	mg/kg dry	1040	ND	81.4	75-125	0.298	20		
C12-C28	968	26.0	"	1040	132	80.2	75-125	6.26			
rrogate: 1-Chlorooctane	123		"	104	102			0.20	20		
rrogate: o-Terphenyl	54.2		"			118	70-130				
				52.1		104	70-130				

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

 Project:
 Plains Jal Tank Farm Tank Booster 1287

 Project Number:
 SRS# 2015-044

 Project Manager:
 Curt Stanley

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian	Basin	Environmental	Lab. L.P.
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Result			Spike Level	Source Result	%REC	%REC	RPD	RPD Limit	
			14 S.			Dimits	ND	Limit	Notes
	1		D						
ND	25.0		Prepared: (04/01/15 A	nalyzed: 0	4/02/15			
		mg/kg we	t.						
ND									
046	25.0	-							
		mg/kg			94.6	70-130			
33.5		"	50.0		111	70-130			
			D						
1020	25.0			4/01/15 An	nalyzed: 04	/02/15			
		mg/kg wet			102	75-125			
	25.0	"	1000		118	75-125			
109		mg/kg	100		109	70-130			
52.2		"	50.0		104				
000			Prepared: 04	4/01/15 An	alyzed: 04	/02/15			
	25.0	mg/kg wet	1000	1	89.3	75-125	13.5	20	
1110	25.0	"	1000		111	75-125			
99.4		mg/kg	100		00 1		0.50	20	
43.9		"							
		04	Prepared: 04	/01/15 Ana	alyzed: 04/	02/15			
	26.3	mg/kg dry		ND				20	
ND	26.3	"		18.5					
79.4		mg/kg	100		70.4	70.100		20	
45.9		"	50.0		19.4	/0-130			
	ND ND ND 94.6 55.5 1020 1180 109 52.2 893 1110 99.4 43.9 Sourc ND ND ND	Result Limit ND 25.0 ND 25.0 ND 25.0 ND 25.0 94.6 55.5 1020 25.0 1180 25.0 109 52.2 893 25.0 1110 25.0 99.4 43.9 Source: 5C27007- ND 26.3 ND 26.3 79.4 26.3	Result Limit Units ND 25.0 mg/kg wet ND 25.0 " ND 25.0 " 94.6 mg/kg 55.5 1020 25.0 mg/kg wet 1180 25.0 " 109 mg/kg 52.2 109 mg/kg 52.2 1110 25.0 " 99.4 mg/kg 43.9 Source: 5C27007-04 ND 26.3 ND 26.3 " 79.4 mg/kg dry ND 26.3 "	Result Limit Units Level ND 25.0 mg/kg wet Prepared: 0 ND 25.0 " Prepared: 0 ND 25.0 " Prepared: 0 94.6 mg/kg 100 55.5 94.6 mg/kg 100 1020 25.0 mg/kg 100 1180 25.0 " 1000 109 mg/kg 100 52.2 Prepared: 0 0 52.2 " 50.0 1110 25.0 " 1000 100 99.4 mg/kg 100 1110 25.0 " 50.0 99.4 mg/kg 100 1110 25.0 " 50.0 99.4 mg/kg 100 100 43.9 " 50.0 ND 26.3 mg/kg 100 26.3 " 100 99.4 mg/kg 100 10 10 10 10	Result Limit Units Level Result ND 25.0 mg/kg wet	Result Limit Units Level Result %REC Prepared: 04/01/15 Analyzed: 0 ND 25.0 mg/kg wet 00 94.6 ND 25.0 " 94.6 94.6 94.6 55.5 " 50.0 111 94.6 94.6 mg/kg 100 94.6 55.5 " 50.0 111 Prepared: 04/01/15 Analyzed: 04 1020 25.0 mg/kg wet 1000 102 1180 25.0 " 1000 104 109 mg/kg 100 109 52.2 " 50.0 104 109 104 Prepared: 04/01/15 Analyzed: 04 893 25.0 mg/kg 1000 111 99.4 mg/kg 100 99.4 43.9 43.9 " 50.0 87.9 111 99.4 <td>Result Limit Units Level Result %REC Limits Prepared: 04/01/15 Analyzed: 04/02/15 ND 25.0 mg/kg wet ND 25.0 " ND 25.0 " 70-130 94.6 mg/kg 100 94.6 70-130 94.6 mg/kg 100 94.6 70-130 94.6 mg/kg wet 1000 111 70-130 1020 25.0 " 50.0 1111 70-130 1020 25.0 mg/kg wet 1000 102 75-125 1180 25.0 " 1000 118 75-125 109 mg/kg 100 109 70-130 52.2 " 50.0 104 70-130 52.2 " 1000 111 75-125 1110 25.0 " 1000 111 75-125 99.4 mg/kg 100 <t< td=""><td>Result Limit Units Jorket Source $\frac{9}{6}$ REC Limits RPD Prepared: 04/01/15 Analyzed: 04/02/15 ND 25.0 mg/kg wet mg/kg 100 94.6 70-130 MD 25.0 " </td><td>Result Limit Units Jource WREC Limits RPD Limit Prepared: 04/01/15 Analyzed: 04/02/15 ND 25.0 mg/kg wet ND 25.0 " ND 25.0 " 30.000 94.6 70-130 94.6 mg/kg wet 30.000 94.6 70-130 55.5 " 50.0 1111 $70-130$ Prepared: 04/01/15 Analyzed: 04/02/15 Prepared: 04/01/15 Analyzed: 04/02/15 1020 25.0 mg/kg wet 1000 118 75-125 1020 25.0 mg/kg wet 1000 104 70-130 52.2 " 50.0 109 70.130 20 1110 25.0 mg/kg 1000 111 75-125 13.5 20 1110 25.0 mg/kg 100 99.4 70-130 20 20 99.4 mg/kg 100 99.</td></t<></td>	Result Limit Units Level Result %REC Limits Prepared: 04/01/15 Analyzed: 04/02/15 ND 25.0 mg/kg wet ND 25.0 " ND 25.0 " 70-130 94.6 mg/kg 100 94.6 70-130 94.6 mg/kg 100 94.6 70-130 94.6 mg/kg wet 1000 111 70-130 1020 25.0 " 50.0 1111 70-130 1020 25.0 mg/kg wet 1000 102 75-125 1180 25.0 " 1000 118 75-125 109 mg/kg 100 109 70-130 52.2 " 50.0 104 70-130 52.2 " 1000 111 75-125 1110 25.0 " 1000 111 75-125 99.4 mg/kg 100 <t< td=""><td>Result Limit Units Jorket Source $\frac{9}{6}$ REC Limits RPD Prepared: 04/01/15 Analyzed: 04/02/15 ND 25.0 mg/kg wet mg/kg 100 94.6 70-130 MD 25.0 " </td><td>Result Limit Units Jource WREC Limits RPD Limit Prepared: 04/01/15 Analyzed: 04/02/15 ND 25.0 mg/kg wet ND 25.0 " ND 25.0 " 30.000 94.6 70-130 94.6 mg/kg wet 30.000 94.6 70-130 55.5 " 50.0 1111 $70-130$ Prepared: 04/01/15 Analyzed: 04/02/15 Prepared: 04/01/15 Analyzed: 04/02/15 1020 25.0 mg/kg wet 1000 118 75-125 1020 25.0 mg/kg wet 1000 104 70-130 52.2 " 50.0 109 70.130 20 1110 25.0 mg/kg 1000 111 75-125 13.5 20 1110 25.0 mg/kg 100 99.4 70-130 20 20 99.4 mg/kg 100 99.</td></t<>	Result Limit Units Jorket Source $\frac{9}{6}$ REC Limits RPD Prepared: 04/01/15 Analyzed: 04/02/15 ND 25.0 mg/kg wet mg/kg 100 94.6 70-130 MD 25.0 "	Result Limit Units Jource WREC Limits RPD Limit Prepared: 04/01/15 Analyzed: 04/02/15 ND 25.0 mg/kg wet ND 25.0 " ND 25.0 " 30.000 94.6 70-130 94.6 mg/kg wet 30.000 94.6 70-130 55.5 " 50.0 1111 $70-130$ Prepared: 04/01/15 Analyzed: 04/02/15 Prepared: 04/01/15 Analyzed: 04/02/15 1020 25.0 mg/kg wet 1000 118 75-125 1020 25.0 mg/kg wet 1000 104 70-130 52.2 " 50.0 109 70.130 20 1110 25.0 mg/kg 1000 111 75-125 13.5 20 1110 25.0 mg/kg 100 99.4 70-130 20 20 99.4 mg/kg 100 99.

Permian Basin Environmental Lab, L.P.

 TRC Solutions- Midland, Texas
 Project:
 Plains Jal Tank Farm Tank Booster 1287
 Fax: (432) 520-7701

 2057 Commerce Street
 Project Number:
 SRS# 2015-044
 Fax: (432) 520-7701

 Midland TX, 79703
 Project Manager:
 Curt Stanley

 Notes and Definitions

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

 QM-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:

Bun Burron

4/7/2015

Date:

Brent Barron, Laboratory Director/Technical Director

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Relinquished by: Date	Relinquished by Hankly 41-16	by: Ol I Date	}	Instructions:	1001-4 @ 4.5	Elon A @ 3'	NSW-3 @ 3'	Floor-3 @ 3.5'	SSW-2 @ 2.5'	Z @ 2-MCN	NGW 2 02	Floor 2 @ 1	FIELD CODE		I elephone No: 434 520-7130 Sampler Signature: 1 (ab use only) 1 ORDER #: SD0[600	City/State/Zip: Midland, Texas 79703	ress:	Company Name NOVA Safety and Environmental / TRCSolutions	Curt Stanley
Time	14:11	Time										+	Beginning Depth	7	AN AN	03		nvironment	
Received by PBEL	Received by:	Received by:		3/31/2015	3/31/2015	3/31/2015	3/31/2015	3/31/2015	3/31/2015	3/31/2015	3/31/2015	3/31/2015	Ending Depth Date Sampled					al / TRCSolutions	Permian Basi 10014 S. Cou Midland, Tex
3				1440	1435	1430	1435	1400	1415	1410	1405	1400	Time Sampled	1	1 1 5	and and a second			AND AN
			X	× -	-		-	-	×	-		-	ield Filtered otal #. of Containers Ice		Fax No: e-mail: <u>cdst</u>				ALYSIS REQ Permia 10014 Midlar
5			E		+	+	+	+		Ŧ	+		HNO3 HCI 12804	Preservation	cdstanley@trcsol				S <i>REQUEST</i> Permian Basin Environr 10014 S. County Road Midland, Texas 79706
			F		Ŧ	+		F			+		laOH laSsOs	& # of C	trcsoluti aalp.co				nvironmenta Road 1213 79706
Date	Date		S	S	5	6	-				+	DV	one ther (Specify) /=Drinking Water SL=Sludge	ontainers	lutions.com				nental Lab, Lp 1213
Time	Time	1 	Soil X	Soil X	Soil X	Soil X	Soil X	Soil X	Soil X	Soil X	Soil X	GV	/= Groundwater S=Soil/Solid Non-Potable Specify Other	Matrix	III Report			P	ď
Sam		Sample	a keli			H					Ê	TPI	H: 418.1 8015M 8015 H: TX 1005 TX 1006 Ons (Ca, Mg, Na, K)		Report Format	Project Loc:	Project #:	Project Name:	
Sample Hand Delivered by Sampler/Client Rep. ? by Courter? by Courter? UPS	VOCS Free of Headspace? Eabels on container(s) Custody seals on container	Sample Containers Inlac						-	1	-		Anic	ns (Cl, SO4, Alkalinity) / ESP / CEC	TOTAL:		8	1	1	
als on coolens and Delivered plenClient Rep. 7 ner? UPS	of Heads	Comments: taihers Intacl?	H	-	-		-		+			-	ls: As Ag Ba Cd Cr Pb Hg Se	PS				lains J	다 문 부
S. S.	VOCs Free of Headspace? Eabels on container(s) Custody seals on container(s)	ints: placi?	×	×	×	×>		× ,		~	×	Semi	volatiles		dard [5		al Tan	one: 4
PHF 1				-	-		+	+	1	1		RCI	Benzene	×		Lea County, NM	2015-044	Plains Jal Tank Farm Tank Booster 1287	Phone: 432-661-4184
KANNING .				·T	T	-	+	-	+	+	-	-			1 8	2	12	14	



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



Analytical Report

Prepared for:

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

Project: Jal Basin Station Booster Pump #1287 Project Number: 2015-044 Location: Lea County, NM

Lab Order Number: 5E18010



NELAP/TCEQ # T104704156-13-3

Report Date: 05/28/15

 TRC Solutions- Midland, Texas
 Project: Jal Basin Station Booster Pump #1287
 Fax: (432) 520-7701

 2057 Commerce Street
 Project Number: 2015-044
 Fax: (432) 520-7701

 Midland TX, 79703
 Project Manager: Curt Stanley
 Fax: (432) 520-7701

 ANALYTICAL REPORT FOR SAMPLES

Sample ID				
SP-1	Laboratory ID	Matrix	Date Sampled	Date Received
	5E18010-01	Soil	05/15/15 13:10	05-18-2015 10:50

Project: Jal Basin Station Booster Pump #1287 Project Number: 2015-044 Project Manager: Curt Stanley

Fax: (432) 520-7701

		5E	SP-1 18010-01 (Soi	1)					
Analyte	Result	Reportin Lim	•	Dilution	n Batch	Prepared	Analyzed		
Organics by GC Benzene	Perm	ian Basin	Environment	tal Lab	, L.P.		Maryzec	Method	No
Toluene Ethylbenzene Xylene (p/m) Xylene (o) Surrogate: 4-Bromofluorobenzene Surrogate: 1,4-Difluorobenzene C6-C12 >C12-C28 >C28-C35	ND ND ND ND 236.51	0.00106 0.00213 0.00106 0.00213 0.00106 125 % 135 % 26.596 26.596	mg/kg dry mg/kg dry mg/kg dry		P5E2802 P5E2802 P5E2802 P5E2802 P5E2802 P5E2802 P5E2802 P5E2002 P5E2002	05/22/15 05/22/15 05/22/15 05/22/15 05/22/15 05/22/15 05/22/15 05/18/15	05/23/15 05/23/15 05/23/15 05/23/15 05/23/15 05/23/15 05/23/15 05/20/15	EPA 8021B EPA 8021B EPA 8021B EPA 8021B EPA 8021B EPA 8021B EPA 8021B TX 1005	S-G
Surrogate: 1-Chlorooctane Surrogate: o-Terphenyl Sotal Hydrocarbon nC6-nC35 Seneral Chemistry Parameters by EPA / S Moisture	45.415 281.93	26.596 112 % 139 % 26.596	mg/kg dry 70-130 70-130 mg/kg dry	1	P5E2002 P5E2002 P5E2002 [CALC]	05/18/15 05/18/15 05/18/15 05/18/15	05/20/15 05/20/15 05/20/15 05/20/15 05/20/15	TX 1005 TX 1005 TX 1005 TX 1005 [CALC]	S-GC
6 Moisture	6.0	0.1	%	1	P5E1906	05/19/15	05/19/15	% calculation	

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

Page 3 of 8

Midland TX, 79703		Proje Projec	ct runnber:	2015-044 Curt Stanle		oster Pump	#1287		Fax: (43	2) 520-770
	Per	Organics mian Ba	s by GC	- Quality ronment	Contr	ol				
Analyte	Result	Report	ing	Spik	e Sou	L.P.	%RE	C		
Batch P5E2002 - TX 1005		Li	mit Units	Leve	el Res	sult %RI	EC Limit		RPD Limit	Notes
Blank (P5E2002-BLK1)					de la					Tioles
C6-C12				Prepare	d: 05/18/1	5 Analyzed	05/10/15			
>C12-C28	ND	25.00	00 mg/kg w	et		o maryzed	: 05/19/15			
>C28-C35	ND	25.00	00 "							
Surrogate: 1-Chlorooctane	ND	25.00	" 00							
Surrogate: o-Terphenyl	78.7		"	100						
	47.9		"	50.0		78.7	.0 150			
LCS (P5E2002-BS1)						95.8	10-150			
C6-C12	725			Prepared	05/18/15	Analyzed:	05/19/15			
>C12-C28	842	25.000	0.0	t 700		104	75-125			
Surrogate: 1-Chlorooctane		25.000) "	700		120	75-125			
Surrogate: o-Terphenyl	110		"	100		110				
CS Dup (DEFense -	53.7		"	50.0		107	70-130			
LCS Dup (P5E2002-BSD1) C6-C12							70-130			
C12-C28	750	25.000	mg/kg wet	Prepared:	05/18/15	Analyzed: 0	5/19/15			
	851	25.000	" "	700		107	75-125	3.30	20	
urrogate: 1-Chlorooctane	105			700		122	75-125	1.06	20	
urrogate: o-Terphenyl	48.5		"	100		105	70-130		20	
latrix Spike (P5E2002-MS1)				50.0		97.0	70-130			
5-C12		e: 5E18006-	-01	Prepared: 0	5/18/15	Analyzed: 05				
C12-C28	751	25.510	mg/kg dry	714	ND					
rrogate: 1-Chlorooctane	799	25.510	"	714	ND	105	75-125			
rrogate: o-Terphenyl	86.5		"	102	ND	112	75-125			
	39.0		"	51.0		84.8	70-130			
atrix Spike Dup (P5E2002-MSD1)	Sau	. EDICAL				76.5	70-130			
-C12	653	: 5E18006-(Prepared: 05	/18/15 A	nalyzed: 05/	20/15			
12-C28	734		ing/xg ury	714	ND	91.4	75-125	14.0		
rogate: 1-Chlorooctane	87.0	25.510	"	714	ND	103	75-125	14.0	20	
rogate: o-Terphenyl			"	102		85.3		8.47	20	
	35.4		"	51.0		69.4	70-130 70-130			
				31.0		10				

Permian Basin Environmental Lab, L.P.

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TRC Solutions- Midland, Texas 2057 Commerce Street Midland TX, 79703		Project Project N	Number:	Jal Basin Stati 2015-044 Curt Stanley	on Booster	Pump #	1287		Fax:	(432) 520-770)
	Por	Organics b	y GC -	Quality C	ontrol					
	Per	mian Basi	n Envir	onmental	Lab, L.F	.				
Analyte	Result	Reporting Limit	Units	Spike Level	Source		%REC	C	RPD	
Batch P5E2802 - TX 1005					Result	%REG	C Limits	RPE		
Blank (P5E2802-BLK1)										
Benzene	ND			Prepared &	Analyzed:	05/22/14	5			
Toluene		0.00100	mg/kg wet	*		00/22/1.)			
Ethylbenzene	ND	0.00200	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00200	"							
Surrogate: 4-Bromofluorobenzene	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.0621		"	0.0500		121				
LCS (P5E2802-BS1)	0.0524		"	0.0500		124 105	75-125 75-125			
Benzene				Prepared & A	nalvzed: 0	5/22/15				
Toluene	0.0947	0.00100	mg/kg wet	0.100	indij zed. 0.	94.7				
Sthylbenzene	0.108	0.00200	"	0.100		108	70-130			
(ylene (p/m)	0.109	0.00100	"	0.100			70-130			
ylene (o)	0.213	0.00200	"	0.200		109	70-130			
urrogate: 4-Bromofluorobenzene	0.104	0.00100	"	0.100		106	70-130			
urrogate: 1,4-Difluorobenzene	0.0580		"	0.0500		104	70-130			
	0.0663		"	0.0500		116	75-125			
CS Dup (P5E2802-BSD1)						133	75-125			S-GC
enzene	0.0911	0.00100	F	Prepared & An	alyzed: 05/	22/15				
luene	0.103		g/kg wet	0.100		91.1	70-130	3.89		
hylbenzene	0.109	0.00200	"	0.100		103	70-130	3.89 4.68	20	
/lene (p/m)	0.213	0.00100	"	0.100		109	70-130	4.68 0.302	20	
vlene (o)	0.104	0.00200	"	0.200		107	70-130	0.302	20	
rogate: 4-Bromofluorobenzene	0.0600	0.00100	"	0.100	1	104	70-130	0.413	20	
rogate: 1,4-Difluorobenzene	0.0616		"	0.0500	1	20	75-125	0.015	20	
	0.0010		"	0.0500		23	75-125			

Permian Basin Environmental Lab, L.P.

2057 Commerce Street Midland TX, 79703									Fax: (432) 520-770		
General Chen	nistry Par Pern	ameters by 11an Basin	y EPA Enviro	/ Standard	l Methoo Lab, L.P	ls - Qua	lity Con	trol			
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	BBD	RPD		
Batch P5E1906 - *** DEFAULT PREP ***							Linnts	RPD	Limit	Notes	
Blank (P5E1906-BLK1)				Part Parts							
6 Moisture	ND	0.1	%	Prepared &	Analyzed:	05/19/15					
uplicate (P5E1906-DUP1) Moisture	Sour	ce: 5E18010-0	1	Prepared &	Applyrad	5/10/15					
	6.0	0.1	%		6.0	19/15		0.00	20		

Permian Basin Environmental Lab, L.P.

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2057 Co	lutions- Midland, Texas ommerce Street TX, 79703	Project: Project Number: Project Manager:	Fax: (432) 520-770		
		Notes and Det			
S-GC	Surrogate recovery outside of control limits. The da	ta was accepted base	d on will a		
DET	Analyte DETECTED	and pice base	to be valid recovery of the remaining surrogate.		
ND	Analyte NOT DETECTED at or above the reporting limit				
NR	Not Reported				
İry	Sample results reported on a dry weight basis				
RPD	Relative Percent Difference				
.CS	Laboratory Control Spike				
IS	Matrix Spike				
up	Duplicate				

Report Approved By:

Barron

Date:

5/28/2015

Brent Barron, Laboratory Director/Technical Director

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