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**

## 1RP-2135

		OPERATOR	Initial Report	X Final Report
Name of Company	Plains Pipeline, LP	Contact Jason Henry		
Address	2530 Hwy 214 – Denver City, Tx 79323	Telephone No. (575) 441-1099		
Facility Name	34 Junction 10-inch	Facility Type Pipeline		

Surface Owner Deck Estate Mineral Owner

	LOCATION OF RELEASE API # 30.025-06232									
Unit Letter L	Section 21	Township 20S	Range 37E	Feet from the	North/South Line	Feet from the	East/West Line	County Lea		

Latitude N 32.55546° Longitude W 103.26123°

## NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 50 bbls Volume Recovered 30 bbls			
Source of Release 10" Steel Pipeline	Date and Hour of Occurrence	Date and Hour of Discovery		
Was Immediate Nation Change	U5/05/2009	05/05/2009 08:00		
Was Immediate Notice Given?	I TES, TO WHOM!			
By Whom? Jason Henry	Date and Hour 03/04/2009 @ 0	8:10		
Was a Watercourse Reached?	If YES, Volume Impacting the Wa	itercourse.		
LI Yes 🖾 No				
If a Watercourse was Impacted, Describe Fully.*	R	RECEIVED		
		NOV 18 2009 - 1		
	WATE (97251			
Describe Cause of Problem and Remedial Action Taken.*	UT			
ι. 	و من و ه د به میروست و به اینا و او د به میروسو و مورو مورو و	THE VERY 2004 HOURS AN AREA AND A MANAGEMENT OF THE		
3rd party damage to 34 Junction 10-inch pipeline caused a release of	crude oil Throughput for the sub	ject line is 3,700 bbls/day and the		
operating pressure of the pipeline is 110 psi. The depth of the pipelin	e at the release point is approximat	ely 1' bgs. The H2S concentration in the		
crude is less than 10 ppm and the gravity of the crude is 40.				
Describe Area Affected and Cleanup Action Taken.* .				
Plage see the ottached Neve Safety and Environmental Sail Classes	Degregation datails of nomedial estim	viting conducted at the site		
Flease see the attached Nova Salety and Environmental Son Closure	<i>Request</i> for details of remedial activ	ities conducted at the site.		
I hereby certify that the information given above is true and complete to t	he best of my knowledge and underst	and that nursuant to NMOCD rules and		
regulations all operators are required to report and/or file certain release r	otifications and perform corrective ac	tions for releases which may endanger		
nublic health or the environment. The acceptance of a C-141 report by the	e NMOCD marked as "Final Report"	does not relieve the operator of liability		
should their operations have failed to adequately investigate and remedia	te contamination that pose a threat to	ground water surface water human health		
or the environment. In addition, NMOCD acceptance of a C-141 report of	loes not relieve the operator of respon	sibility for compliance with any other		
federal, state, or local laws and/or regulations.				
$\Lambda$ $\Lambda$	OIL CONSERV	VATION DIVISION		
	<u>OIL CONDER</u>	V A NON DIVISION		
Signature: ASON COMUN	the second s	1 Sight and the second		
	Approved by District Supervisor:			
Printed Name: Jason Henry	ENVIRUNME	ENTAL ENGINEER		
	AL 1.7			
Title: Remediation Coordinator	Approval Date: 1.18.09	Expiration Date:		
E-mail Address: jhenry@paalp.com	Conditions of Approval:	Attacked		
Du 11/18/2009 DI (000)		170# 7125		
Date: ////0/2001 Phone: (575) 441-1099		1161- 6100		
A 1 A 11/2 1 OI TONT				

PGRL1001051249



## SOIL CLOSURE REQUEST

## **34 JUNCTION 10-INCH** NW ¼, SW ¼, SECTION 21, TOWNSHIP 20 SOUTH, RANGE 37 EAST MONUMENT, NEW MEXICO PLAINS SRS NUMBER: 2002-10286 NMOCD REF 1RP-2135

Prepared for:

PLAINS PIPELINE, L.P. 333 Clay Street, Suite 1600 Houston, Texas 77002

RECEIVED NOV 1 8 2009 HOBBSOCD

Prepared by:

NOVA Safety and Environmental 2057 Commerce Midland, Texas 79703

August 2009

Ronald K. Rounsaville Senior Project Manager

Protein K. Byerly, P.G. President



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FIGURE 2:	Site Map with Soil Sample Locations

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 TABLE 1:
 Concentrations of BTEX and TPH in Soil

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APPENDIX A:	Laboratory Reports
APPENDIX B:	Notification of Release and Corrective Action (Form C-141)

#### **1.0 INTRODUCTION**

On behalf of Plains Pipeline, L.P. (Plains), NOVA Safety and Environmental (NOVA) is pleased to submit this Soil Closure Request to the New Mexico Oil Conservation Division (NMOCD). The 34 Junction 10-Inch (NMOCD Reference Number 1RP-2135) Release Site is located approximately 10 miles northwest of Eunice in Lea County, New Mexico. The site is located in the NW 1/4 SW 1/4, Section 21, Township 20 South, Range 37 East. A Site Location Map is presented as Figure 1. The Release Notification and Corrective Action (Form C-141) submitted by Plains reported approximately 50 barrels of crude oil released with 30 barrels recovered. The release occurred on March 3, 2009, while a NOVA Earthworks crew was working on remediating the soil from Plains Junction 34 to Lea Station (2002-10286) site. The release was caused by an equipment operator error resulting in damage to the 10-inch pipeline. The release impacted approximately 3,600 square feet of the pipeline right-of-way and land owned by the Deck Estate. Plains personnel were notified and mobilized to the site. The pipeline was exposed and hydrocarbon impacted soil excavated during the emergency response activities were stockpiled for further remediation. The excavation surrounding the pipeline was excavated to a depth of approximately thirteen (13) below ground surface (bgs). The dimensions of the excavation area measured approximately 60 feet in length (north to south) by 60 feet in width (east to west). A Site Map depicting site features is presented as Figure 2.

#### 2.0 NMOCD SITE CLASSIFICATION

The depth to groundwater at the site is less than 50 feet bgs. Based on the NMOCD soil classification system, 20 points would be assigned to the site as a result of this criterion.

The distance to the nearest water source exceeds 1,000 feet, resulting in zero points being assigned to the site on this ranking criterion. There is no surface water body located within 1,000 feet of the site, resulting in zero points being assigned on this ranking criterion. The NMOCD guidelines indicate that the site would have a Ranking Score of >19. The soil action levels for a site with a Ranking Score of >19 points are as follows:

- Benzene 10 ppm
- BTEX 50 ppm
- TPH 100 ppm

#### 3.0 SUMMARY OF RECENT FIELD ACTIVITIES

#### 3.1 Impacted Soil Removal

Excavation of the impacted soils in the area of the release point began on March 5, 2009. An excavator was utilized to remove impacted soil from the floor and sidewalls of the excavation area. The excavated soil was stockpiled on-site and blended with non-impacted soil from the surrounding area. On March 25, 2009, NOVA personnel collected soil samples from the north, south, east and west sidewalls and floor of the excavation area. Based on visual and olfactory observations and laboratory analytical results, the final dimensions of the excavation area were

approximately 60 feet in length (north to south) by 60 feet in width (east to west) and averaged approximately 13 feet below ground surface (bgs). An estimated 1,700 cubic yards of soil was brought to surface for onsite remediation by mixing, blending and aeration methods. Excavation and backfilling activities were completed on April 15, 2009. Figure 2 is a Soil Sample Location and Excavation Area Map displaying the pipeline, leak source, excavation area, confirmation soil sample locations and other site details.

### 3.2 Excavated Soil Remediation

Excavated soil was staged in a cleared area located east of the excavation. Non-impacted nearsurface soil collected from within the cleared area was pushed up and used to blend with the impacted soil. Mixing and blending activities continued concurrently with excavation activities.

### **3.3** Confirmation Soil Sampling – Excavation Areas

Confirmation soil samples collected from the excavation areas were submitted for laboratory analysis for TPH by Method 8015M and BTEX by Method 8021B. Laboratory submitted samples were placed in a new sterile glass container, equipped with a Teflon-lined lid furnished by the laboratory. Samples were labeled, placed on ice, and chilled to a temperature of approximately 4° C. Appropriate chain-of-custody documentation and shipping protocols were followed. The laboratory analytical reports are provided in Appendix C. Table 1 displays the analytical results of confirmation soil samples.

On March 25, 2009, confirmation soil samples were collected from the floor and four sidewalls of the excavation area. The analytical results of these soil samples indicated TPH and BTEX concentrations were below the NMOCD regulatory standards of 100 mg/Kg and 50 mg/Kg, respectively, with the exception of the soil samples identified as N. Floor, 12 ft. and S. Floor, 12 ft. The analytical results for soil sample N. Floor, 12 ft. indicated the total petroleum hydrocarbon (TPH) concentration was 420 mg/Kg. The analytical results for soil sample S. Floor, 12 ft. indicated the TPH concentration was 374 mg/Kg.

On April 14, 2009, upon receipt of initial analytical results, the area surrounding soil samples N. Floor, 12 ft. and S. Floor, 12 ft. were excavated approximately 1 foot deeper. Two additional confirmation soil samples, identified as S. Floor-2, 13 ft. and N. Floor-2, 13 ft., were collected from the floor excavation area. The analytical results of these soil samples indicated TPH and BTEX concentrations were below the NMOCD regulatory standards.

#### 3.4 Confirmation Soil Sampling – Blended Soil Piles

On April 14, 2009, four composite soil samples (SP-1A through SP-1D) were collected from the blended soil stockpiles and submitted to the laboratory for analysis. The analytical results indicated the TPH concentration of the stockpile soils ranged from <50 mg/Kg to 113 mg/Kg. Benzene concentrations were less than 0.010 mg/Kg and total BTEX concentrations were below 50 mg/Kg in all stockpile samples.

### 3.5 Backfilling and Surface Restoration

Based on analytical results of laboratory analyzed confirmation soil samples obtained from the excavation areas and remediated soil piles, on April 29, 2009, the NMOCD approved the backfilling of the excavation with remediated soil. On May 1, 2009, backfilling activities were completed and the disturbed area was contoured to reflect the surrounding topography. Pursuant to Plains agreement with the Deck Estate, the upper-most three feet was backfilled with non-impacted soil.

### 4.0 SOIL CLOSURE REQUEST

Plains has completed activities and based upon laboratory analytical results, requests NMOCD approval for soil closure.

### 5.0 LIMITATIONS

NOVA has prepared this Soil Closure Request to the best of its ability. No other warranty, expressed or implied, is made or intended. NOVA has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. NOVA 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. NOVA has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. NOVA 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. The information contained in this report including all exhibits and attachments may not be used by any other party without the express written consent of NOVA and/or Plains.

#### 6.0 **DISTRIBUTION**

- Copy 1: Larry Johnson New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division District 1 1625 French Drive Hobbs, NM 88240
- Copy 2: Jason Henry Plains Marketing, L.P. 2530 State Highway 214 Denver City, TX 79323 jhenry@paalp.com
- Copy 3: Jeff Dann Plains Marketing, L.P. 333 Clay Street, Suite 1600 Houston, Texas 77002 jpdann@paalp.com
- Copy 4: NOVA Safety and Environmental. 2057 Commerce Drive Midland, Texas 79703 rrounsaville@novatraining.cc

## **FIGURES**





# TABLES

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#### TABLE 1

#### Concentrations of BTEX and TPH in Soil

#### 34 Junction 10-Inch Lea County, New Mexico Plains Pipeline, L.P. NMOCD Reference # 1RP-2135

Sample Location	Sample Date	Sample Depth	Soil Status	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylenes (mg/Kg)	Total BTEX (mg/Kg)	GRO (C6-C12) mg/Kg	DRO ( <c<sub>12-C<sub>35</sub>) mg/Kg</c<sub>	Total TPH (mg/Kg)
NMOCD REGU STANDAL	LATORY RD			10	_	-	—	50		-	100
N Wall	03/25/09	10'	In-Situ	< 0.010	0.0963	< 0.010	0.0236	0.1199	<1.00	<50.0	<50.0
S Wall	03/25/09	10'	In-Situ	< 0.010	< 0.010	<0.010	< 0.010	<0.010	<1.00	<50 0	<50.0
E Wall	03/25/09	9'	In-Situ	< 0.010	< 0.010	<0.010	<0.010	<0.010	<1.00	<50.0	<50.0
W Wall	03/25/09	10'	In Situ	< 0.010	< 0.010	<0.010	0.019	0.019	<1.00	<50.0	<50.0
. N Floor	03/25/09	12'	Istati	< 0.010	< 0.010	<0.010	< 0.010	< 0.010	<1.00	420	420
S Floor	03/25/09	12'	In-Situ	<0 010	< 0.010	<0.010	0.196	0.196	<1.00	374	374
E Floor	03/25/09	13'	In-Situ	< 0.010	< 0.010	<0.010	<0 010	<0.010	<1.00	<50.0	<50.0
W Floor	03/25/09	11'	In-Situ	< 0.010	< 0.010	<0.010	< 0.010	< 0.010	<1.00	<50.0	<50 0
C Floor	03/25/09	13'	In-Situ	<0.010	< 0.010	<0.010	< 0.010	< 0.010	<1.00	<50.0	<50.0
			V	, ·							
N Floor-2	04/14/09	13'	Excavated	<0.010	< 0.010	<0.010	< 0.010	< 0.010	1.90	<50.0	1.90
S Floor-2	04/14/09	13'	Excavated	< 0.010	<0.010	<0.010	< 0.010	< 0.010	<1.00	<50.0	<50.0
SP-1A	04/14/09		Blended	< 0.010	<0 010	<0.010	< 0.010	< 0.010	<1.00	101	101
SP-1B	04/14/09		Blended	<0 010	< 0.010	<0.010	< 0.010	<0.010	<1.00	87.6	87.6
SP-1C	04/14/09		Blended	< 0.010	< 0.010	<0.010	<0 010	< 0.010	<1.00	113	113
SP-1D	04/14/09		Blended	<0.010	<0.010	<0.010	<0.010	< 0.010	<1.00	84	84

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## **APPENDICES**

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**APPENDIX A** 

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## Analytical and Quality Control Report

Ron Rounsaville Nova Safety & Environmental 2057 Commerce St. Midland, TX, 79703

Report Date: March 27, 2009

Work Order: 9032541

Project Location:Lea County, NMProject Name:34 Junction 10 inchProject Number:34 Junction 10 inch

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

	· _	· -	Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
191173	N Wall	soil	2009-03-25	11:00	2009-03-25
191174	S Wall	soil	2009-03-25	11:10	2009-03-25
191175	$\mathbf{E}$ Wall	soil	2009-03-25	11:25	2009-03-25
191176	W Wall	soil	2009-03-25	11:30	2009-03-25
191177	N Floor	soil	2009-03-25	12:00	2009-03-25
191178	S Floor	soil	2009-03-25	12:20	2009-03-25
191179	E Floor	soil	2009-03-25	12:30	2009-03-25
191180	W Floor	soil	2009-03-25	12:40	2009-03-25
191181	C Floor	soil	2009-03-25	12:55	2009-03-25

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 20 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Michael abert

Dr. Blair Leftwich, Director

#### Standard Flags

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 ${\bf B}\,$  - The sample contains less than ten times the concentration found in the method blank.

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## **Case Narrative**

Samples for project 34 Junction 10 inch were received by TraceAnalysis, Inc. on 2009-03-25 and assigned to work order 9032541. Samples for work order 9032541 were received intact at a temperature of 13.5 deg. C (straight from field).

Samples were analyzed for the following tests using their respective methods.

		Prep	$\mathbf{Prep}$	$\mathbf{QC}$	Analysis
Test	Method	$\operatorname{Batch}$	Date	Batch	Date
BTEX	S 8021B	49553	2009-03-26 at 11:01	58014	2009-03-26 at 11:01
TPH DRO	Mod. 8015B	49542	2009-03-26 at $11:00$	58013	2009-03-26 at $16:00$
TPH GRO	S 8015B	49553	2009-03-26 at $11:01$	58015	2009-03-26 at $11:01$

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 9032541 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

## **Analytical Report**

#### Sample: 191173 - N Wall

Laboratory:	Midland					
Analysis:	BTEX		Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	58014		Date Analyzed:	2009-03-26	Analyzed By:	ME
Prep Batch:	49553		Sample Preparation:	2009-03-26	Prepared By:	ME
			$\mathbf{RL}$			
Parameter		Flag	Result	Units	Dilution	RL

I arameter 1.1	ag	1 (Cou	10	Units	1	Junion	101
Benzene		< 0.010	0	mg/Kg		1	0.0100
Toluene		0.096	3	mg/Kg		1	0.0100
Ethylbenzene		< 0.010	0	mg/Kg		1	0.0100
Xylene		0.23	6	mg/Kg	1		0.0100
					Spike	Percent	Recovery
Surrogate	$\operatorname{Flag}$	$\mathbf{Result}$	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		0.950	mg/Kg	1	1.00	95	49 - 129.7
4-Bromofluorobenzene (4-BFB	)	0.753	mg/Kg	1	1.00	75	45.2 - 144.3

#### Sample: 191173 - N Wall

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH DR 58013 49542	0		Analytical M Date Analyz Sample Prep	lethod: 1 ed: 2 aration: 2	Mod. 8015B 2009-03-26 2009-03-26	Pi A Pi	rep Method: nalyzed By: repared By:	N/A LD LD
				$\operatorname{RL}$					
Parameter		Flag		$\mathbf{Result}$		Units	Dilution		$\mathbf{RL}$
DRO				<50.0		mg/Kg	1		50.0
Surrogate	Fl	ag	Result	Units	Dilutio	Spike on Amou	e Percent nt Recovery	/ Reco Lin	overy nits
n-Triacontan	e		76.3	mg/Kg	1	100	76	13.2 -	219.3

### Sample: 191173 - N Wall

QC Batch:	58015	Date Analyzed:	2009-03-26	Analyzed By:	ME
Prep Batch:	49553	Sample Preparation:	2009-03-26	Prepared By:	$\mathbf{ME}$

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continued ...

Report Date: March 27, 2009	Work Order: 9032541	Page Number: 5 of 20
34 Junction 10 inch	34 Junction 10 inch	Lea County, NM

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#### sample 191173 continued ...

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Parameter	Flag		RL Result		Units		Dilution	RL
			$\operatorname{RL}$					
Parameter	Flag		$\operatorname{Result}$		Units		Dilution	$\mathbf{RL}$
GRO	·····		<1.00		mg/Kg		1	1.00
						Spike	Percent	Recovery
Surrogate		$\operatorname{Flag}$	$\mathbf{Result}$	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)	)		0.910	mg/Kg	1	1.00	91	68.5 - 119.4
4-Bromofluorobenzene	(4-BFB)		0.884	mg/Kg	1	1.00	88	52 - 117

## Sample: 191174 - S Wall

.

Laboratory: Analysis: QC Batch: Prep Batch:	Midland BTEX 58014 49553		Analytical Date Anal Sample Pr	Method: yzed: eparation:	S 8021B 2009-03-26 2009-03-26		Prep Ma Analyze Prepare	ethod: ed By: ed By:	S 5035 ME ME
			RI	Ĺ					
Parameter	Fla	g	Resul	t	Units	_	Dilution		$\operatorname{RL}$
Benzene			< 0.010	0	mg/Kg		1		0.0100
Toluene			< 0.010	0	mg/Kg		. 1		0.0100
Ethylbenzene			< 0.010	0	mg/Kg		1		0.0100
Xylene			< 0.010	0	mg/Kg		1		0.0100
-						Spike	Percent	Rec	overy
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Liı	mits
Trifluorotolue	ene (TFT)		0.970	mg/Kg	1	1.00	97	49 -	129.7
4-Bromofluor	obenzene (4-BFB)		0.766	mg/Kg	· <u>1</u>	1.00	77	45.2 ·	- 144.3

### Sample: 191174 - S Wall

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH DRO 58013 49542	Analytical Method: Date Analyzed: Sample Preparation:	Mod. 8015B 2009-03-26 2009-03-26	Prep Method: Analyzed By: Prepared By:	N/A LD LD
Demonstration	Eler	RL	Unita	Dilution	DI
Parameter	Flag	Result	Units	Dilution	KL
DRO		<50.0	mg/Kg	1	50.0

SurrogateFlagResultUnitsDilutionSpikePercentReco $n$ -Triacontane69.6 $mg/Kg$ 11007013.213.2Sample:191174 - S WallLaboratory:MidlandAnalysis:TPH GROAnalytical Method:S 8015BPrep Method:SQC Batch:58015Date Analyzed:2009-03-26AnalyzedAnalysisPrep Batch:49553Sample Preparation:2009-03-26Prepared By:NRLParameterFlagResultUnitsDilutionGRO<1.00mg/Kg11SurrogateFlagResultUnitsDilutionSurrogateFlagResultUnitsDilutionTrifluorotoluene (TFT)1.01mg/Kg11.0068.5 -4-Bromofluorobenzene (4-BFB)0.890mg/Kg11.008952 -Sample:191175 - E WallLaboratory:Midland Analysis:BTEXAnalytical Method:S 8021BPrep Method:SQC Batch:58014Date Analyzed:2009-03-26Prepared By:NPrep Batch:49553Sample Preparation:2009-03-26Prepared By:NPrep Batch:49553Sample Preparation:2009-03-26Prepared By:NPrep Batch:49553Sample Preparation:2009-03-26Prepared By:NPrep Batch:49553Sample Preparation:2009-03-26Prepared By:N	umber: 6 of 20 ea County, NM	Page Number Lea Cou		: 9032541 n 10 inch	Vork Order 34 Junctior		Report Date: March 27, 2009         34 Junction 10 inch			
n-Triacontane       69.6       mg/Kg       1       100       70       13.2 -         Sample:       191174 - S Wall       Laboratory:       Midland       Analytical Method:       S 8015B       Prep Method:       S         QC Batch:       58015       Date Analyzed:       2009-03-26       Analyzed By:       N         Prep Batch:       49553       Sample Preparation:       2009-03-26       Prepared By:       N         Parameter       Flag       Result       Units       Dilution       GRO        Spike       Percent       Recovery       Lim         Surrogate       Flag       Result       Units       Dilution       Amount       Recovery       Lim         Sample:       191175 - E Wall       1.01       mg/Kg       1       1.00       89       52 -         Sample:       191175 - E Wall       Laboratory:       Midland       Analyzed:       2009-03-26       Analyzed By:       N         Prep Batch:       49553       Sample Preparation:       2009-03-26       Analyzed By:       N         Sample:       191175 - E Wall       Laboratory:       Midland       Analyzed:       2009-03-26       Prep Method:       S         QC Batch:       58014	Recovery Limits	Percent Re Recovery I	pike, nount	tion A	Dilu	Units	Result	Flag	Surrogate	
Sample: 191174 - S Wall         Laboratory:       Midland         Analysis:       TPH GRO       Analytical Method:       S 8015B       Prep Method:       S         QC Batch:       58015       Date Analyzed:       2009-03-26       Analyzed By:       N         Prep Batch:       49553       Sample Preparation:       2009-03-26       Prepared By:       N         Parameter       Flag       Result       Units       Dilution         GRO       <1.00       mg/Kg       1       .         Surrogate       Flag       Result       Units       Dilution       Recovery       Lin         Trifluorotoluene (TFT)       1.01       mg/Kg       1       1.00       101       68.5 -         4-Bromofluorobenzene (4-BFB)       0.890       mg/Kg       1       1.00       89       52 -         Sample: 191175 - E Wall         Laboratory:       Midland       Analytical Method:       S 8021B       Prep Method:       S         QC Batch:       58014       Date Analyzed:       2009-03-26       Analyzed By:       N         Prep Batch:       49553       Sample Preparation:       2009-03-26       Prepared By:       N         Parameter <th>13.2 - 219.3</th> <th>70 13.2</th> <th>100</th> <th>1</th> <th>]</th> <th>mg/Kg</th> <th>69.6</th> <th></th> <th>n-Triacontane</th>	13.2 - 219.3	70 13.2	100	1	]	mg/Kg	69.6		n-Triacontane	
Laboratory:Midland Analysis:TPH GRO TPH GRO QC Batch:Analytical Method:S $8015B$ 2009-03-26Prep Method:S Analyzed By:NPrep Batch: $49553$ Sample Preparation: $2009-03-26$ Analyzed By:NParameterFlagResultUnitsDilutionGRO<1.00								.174 - S Wall	Sample: 191	
RL GRODilutionGRO<1.00	thod: S 5035 l By: ME l By: ME	Prep Method: Analyzed By: Prepared By:		S 8015B 2009-03-26 2009-03-26	Method: yzed: reparation:	Analytica Date Ana Sample P	ŗ	Midland TPH GRO 58015 49553	Laboratory: Analysis: QC Batch: Prep Batch:	
GRO<1.00mg/Kg1GRO<1.00mg/Kg1SurrogateFlagResultUnitsDilutionAmountRecoveryLintTrifluorotoluene (TFT)1.01mg/Kg11.0010168.5 -4-Bromofluorobenzene (4-BFB)0.890mg/Kg11.008952 -Sample: 191175 - E WallLaboratory:MidlandAnalysis:BTEXAnalytical Method:S 8021BPrep Method:SQC Batch:58014Date Analyzed:2009-03-26Analyzed By:NPrep Batch:49553Sample Preparation:2009-03-26Prepared By:NRLRLInitianDilutionBenzene0.0100mg/Kg10Toluene<0.0100mg/Kg100CurrogateFlagResultUnitsDilutionSurrogateFlagResultUnitsDilution	BL	Dilution		Units		RL Besult		Flag	Parameter	
SpikePercentRecoSurrogateFlagResultUnitsDilutionAmountRecoveryLinTrifluorotoluene (TFT)1.01 $mg/Kg$ 11.0010168.5 -4-Bromofluorobenzene (4-BFB)0.890 $mg/Kg$ 11.008952 -Sample: 191175 - E WallLaboratory:MidlandAnalysis:BTEXAnalytical Method:S 8021BPrep Method:SQC Batch:58014Date Analyzed:2009-03-26Analyzed By:NPrep Batch:49553Sample Preparation:2009-03-26Prepared By:NRLParameterFlagResultUnitsDilutionBenzene<0.0100	1.00	1		mg/Kg		<1.00		1 105	GRO	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Recovery Limits	Percent Re Recovery I	Spike Amount	Dilution	Units	Result	Flag		Surrogate	
4-Bromotiuorobenzene (4-BFB) $0.890$ $mg/Kg$ 1 $1.00$ $89$ $52$ -Sample: 191175 - E WallLaboratory:MidlandAnalysis:BTEXAnalytical Method:S 8021BPrep Method:SQC Batch:58014Date Analyzed: $2009-03-26$ Analyzed By:NPrep Batch:49553Sample Preparation: $2009-03-26$ Prepared By:NRLParameterFlagResultUnitsDilutionBenzene $<0.0100$ $mg/Kg$ 10Toluene $<0.0100$ $mg/Kg$ 10Ethylbenzene $<0.0100$ $mg/Kg$ 10Xylene $<0.0100$ $mg/Kg$ 10SurrogateFlagResultUnitsDilutionAmountRecoveryLim	68.5 - 119.4	101 68.8	1.00	1	mg/Kg	1.01		ne (TFT)	Trifluorotolue	
Sample: 191175 - E WallLaboratory:MidlandAnalysis:BTEXAnalytical Method:S $8021B$ QC Batch: $58014$ Date Analyzed: $2009-03-26$ Prep Batch: $49553$ Sample Preparation: $2009-03-26$ Prep Batch: $49553$ Sample Preparation: $2009-03-26$ Prepared By:MMarkowskiMBenzene $<0.0100$ mg/Kg1Toluene $<0.0100$ mg/Kg10Ethylbenzene $<0.0100$ mg/Kg10Xylene $<0.0100$ mg/Kg10SurrogateFlagResultUnitsDilutionAmountRecoveryLim	52 - 117	89	1.00	1	mg/Kg	0.890		benzene (4-BFB)	4-Bromofluoro	
Sample: 191175 - E Wall         Laboratory:       Midland         Analysis:       BTEX       Analytical Method:       \$ 8021B       Prep Method:       \$ S         QC Batch:       58014       Date Analyzed:       2009-03-26       Analyzed By:       M         Prep Batch:       49553       Sample Preparation:       2009-03-26       Prepared By:       M         Prep Batch:       49553       Sample Preparation:       2009-03-26       Prepared By:       M         Parameter       Flag       Result       Units       Dilution       M         Benzene       <0.0100								×		
Laboratory:MidlandAnalysis:BTEXAnalytical Method:S 8021BPrep Method:SQC Batch:58014Date Analyzed:2009-03-26Analyzed By:MPrep Batch:49553Sample Preparation:2009-03-26Prepared By:MRLParameterFlagResultUnitsDilutionBenzene<0.0100								175 - E Wall	Sample: 191	
QC Batch:58014Date Analyzed:2009-03-26Analyzed By:NPrep Batch:49553Sample Preparation:2009-03-26Prepared By:NRLRLDilutionBenzene<0.0100	thod: S 5035	Prep Method:		S 8021B	Method:	Analytical		Midland BTEX	Laboratory: Analysis:	
RLParameterFlagResultUnitsDilutionBenzene<0.0100	l By: ME l By: ME	Analyzed By: Prepared By:		2009-03-26 2009-03-26	zed: paration:	Date Analy Sample Pre		58014 49553	QC Batch: Prep Batch:	
ParameterFlagResultUnitsDilutionBenzene<0.0100						RI				
Benzene         <0.0100         mg/Kg         1         0           Toluene         <0.0100	RL	Dilution		Units		Result		Flag	Parameter	
Toluene       <0.0100	0.0100	1		mg/Kg		< 0.0100			Benzene	
Ltnyloenzene     <0.0100     mg/Kg     1     0       Xylene     <0.0100	0.0100	1		mg/Kg		< 0.0100			Toluene	
Spike Percent Reco Surrogate Flag Result Units Dilution Amount Recovery Lim	0.0100 0.0100	1 1		mg/Kg mg/Kg		<0.0100 <0.0100			Ethylbenzene Xylene	
Surrogate Flag Result Units Dilution Amount Recovery Lin	Recovery	Percent Re	Spike			<u> </u>				
	Limits	Recovery I	Amount	Dilution	Units	Result	Flag		Surrogate	
Trifluorotoluene (TFT)         1.03         mg/Kg         1         1.00         103         49 - 1	49 - 129.7	103 49	1.00	1	mg/Kg	1.03		ne (TFT)	Trifluorotolue	

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34 Junction 10 inch	34 Junction 10 inch	Lea County, NM

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### Sample: 191175 - E Wall

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH DRO 58013 49542		Analytica Date Ana Sample P	l Method: llyzed: reparation:	Mod. 801 2009-03-26 2009-03-26	5B 3 3	Prep 1 Analy Prepa	Method: N/A zed By: LD red By: LD
Parameter	Я	ag	RL Result		Units		Dilution	BL
DRO		<u>0</u>	<50.0		mg/Kg		1	50.0
Surrogate	Flag	Result	Units	Dilut	tion	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontan	e	78.4	mg/Kg	1		100	78	13.2 - 219.3
Sample: 19 Laboratory: Analysis: QC Batch: Prep Batch:	1175 - E Wall Midland TPH GRO 58015 49553		Analytica Date Ana Sample P	l Method: lyzed: reparation:	S 8015B 2009-03-26 2009-03-26	) )	Prep Me Analyze Prepare	ethod: S 5035 d By: ME d By: ME
Parameter	F	lao	RL Besult		Units		Dilution	BL
GRO		······································	<1.00		mg/Kg		1	1.00
Surrogate	(115-11)	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
4-Bromofluor	ene (TFT) robenzene (4-BF	̈́Β)	$1.09 \\ 0.879$	mg/Kg mg/Kg	1 1	1.00 1.00	109 88	68.5 - 119.4 52 - 117

## Sample: 191176 - W Wall

Laboratory:	Midland					
Analysis:	BTEX		Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	58014		Date Analyzed:	2009-03-26	Analyzed By:	ME
Prep Batch:	49553		Sample Preparation:	2009-03-26	Prepared By:	$\mathbf{ME}$
			$\operatorname{RL}$			
Parameter		Flag	Result	Units	Dilution	$\mathbf{RL}$
Benzene			< 0.0100	mg/Kg	1	0.0100
Toluene			< 0.0100	mg/Kg	1	0.0100
Ethylbenzene		,	< 0.0100	mg/Kg	1	0.0100
Xylene			0.190	mg/Kg	1	0.0100

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Surrogate	$\mathbf{Flag}$	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.966	mg/Kg	1	1.00	97	49 - 129.7
4-Bromofluorobenzene (4	-BFB)	0.770	mg/Kg	1	1.00	77	45.2 - 144.3
Sample: 191176 - W Laboratory: Midland Analysis: TPH DRC QC Batch: 58013 Prep Batch: 49542	Wall	Analytica Date Ana Sample P	l Method: lyzed: reparation:	Mod. 8015B 2009-03-26 2009-03-26		Prep J Analy Prepa	Method: N/A zed By: LD red By: LD
		$\mathbf{RL}$					
Parameter	Flag	Result		Units		Dilution	RL
DRO		<50.0		mg/Kg		1	50.0
Surrogate Fla	g Result	Units	Dilut	Sion An	pike nount	Percent Recovery	Recovery Limits
n-Triacontane	64.9	mg/Kg	1		100	65	13.2 - 219.3

### Sample: 191176 - W Wall

Laboratory:	Midland								
Analysis:	TPH GRO		Analytical Method: Date Analyzed:		S 8015B		Prep Method:		
QC Batch:	58015				2009-03-26		Analyze	d By: ME	
Prep Batch:	49553		Sample Pr	reparation:	2009-03-26	Prepared		d By: ME	
		÷	$\mathbf{RL}$						
Parameter	Flag		Result		$\mathbf{Units}$		Dilution	$\operatorname{RL}$	
GRO		١	<1.00		mg/Kg		1	1.00	
						Spike	Percent	Recovery	
Surrogate		Flag	$\mathbf{Result}$	$\mathbf{Units}$	Dilution	Amount	Recovery	Limits	
Trifluorotolue	ene (TFT)		1.09	mg/Kg	1	1.00	109	68.5 - 119.4	
4-Bromofluor	obenzene (4-BFB)		0.901	mg/Kg	1	1.00	90	52 - 117	

## Sample: 191177 - N Floor

Laboratory:	Midland			(		
Analysis:	BTEX	Analytical Method:	S 8021B		Prep Method:	S 5035
QC Batch:	58014	Date Analyzed:	2009-03-26		Analyzed By:	$\mathbf{ME}$
Prep Batch:	49553	Sample Preparation:	2009-03-26		Prepared By:	$\mathbf{ME}$

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Report Date: March 27, 2009 34 Junction 10 inch				Work Order: 9032541 34 Junction 10 inch			Page Number: 9 of 20 Lea County, NM		
<b>D</b>			RI		<b>TT</b> - <b>*</b>		<b></b>		
Parameter	Flag		Resul	t	Units		Jilution	KL	
Benzene			< 0.010	0	m mg/Kg		1	0.0100	
Toluene			< 0.010	0	mg/Kg		1	0.0100	
Ethylbenzene			< 0.010	0	mg/Kg		1	0.0100	
Xylene			< 0.010	0	mg/Kg		1	0.0100	
						Spike	Percent	Recovery	
Surrogate		Flag	$\operatorname{Result}$	Units	Dilution	Amount	Recovery	Limits	
Trifluorotoluene (TF	T)		0.968	mg/Kg	1	1.00	97	49 - 129.7	
4-Bromofluorobenzene (4-BFB)		0.802	mg/Kg	1	1.00	80	45.2 - 144.3		

### Sample: 191177 - N Floor

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH DR 58013 49542	0		Analytical M Date Analyz Sample Prep	fethod: ed: paration:	Mod. 8015E 2009-03-26 2009-03-26	3	Prep Me Analyzec Preparec	thod: 1 By: 1 By:	N/A LD LD
				$\mathbf{RL}$						
Parameter		Flag	5	$\operatorname{Result}$		$\mathbf{Units}$		Dilution		$\operatorname{RL}$
DRO				420		mg/Kg		1		50.0
						S	Spike	Percent	Reco	very
Surrogate	$\mathbf{F}$	ag	$\operatorname{Result}$	Units	Dilutio	on Ai	mount	Recovery	$\operatorname{Lin}$	$_{ m its}$
n-Triacontan	e		106	mg/Kg	1		100	106	13.2 -	219.3

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## Sample: 191177 - N Floor

$\mathbf{H} \mathbf{H} \mathbf{H} \mathbf{H} \mathbf{H} \mathbf{H} \mathbf{H} \mathbf{H} $							
Midland TPH GRO 58015 49553	Analytica Date Ana Sample P	l Method: lyzed: reparation:	S 8015B 2009-03-26 2009-03-26		Prep Me Analyzee Prepareo	ethod: S 5035 d By: ME d By: ME	
		$\operatorname{RL}$					
Flag		$\mathbf{Result}$		$\mathbf{Units}$		Dilution	$\operatorname{RL}$
		<1.00		mg/Kg	. <u>.</u>	1	1.00
	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
ene (TFT)		1.07	mg/Kg	1	1.00	107	68.5 - 119.4
obenzene (4-BFB)		0.904	mg/Kg	1	1.00	90	52 - 117
	Midland TPH GRO 58015 49553 Flag ene (TFT) obenzene (4-BFB)	Midland TPH GRO 58015 49553 Flag Flag Ene (TFT) obenzene (4-BFB)	Midland TPH GRO Analytica 58015 Date Ana 49553 Sample P RL Flag Result <a href="https://www.sciencescommunication-communicatio-communicatio-communicatio-communicatio-communicatio-communicatio-communicatio-communicatio-co</td> <td>Midland         TPH GRO       Analytical Method:         58015       Date Analyzed:         49553       Sample Preparation:         RL       Flag         Result       &lt;1.00</td> Flag Result Units         Interview of the second	Midland         TPH GRO       Analytical Method:         58015       Date Analyzed:         49553       Sample Preparation:         RL       Flag         Result       <1.00	Midland         TPH GRO       Analytical Method:       S 8015B         58015       Date Analyzed:       2009-03-26         49553       Sample Preparation:       2009-03-26         RL         Flag       Result       Units         Obsenzene (4-BFB)       0.904       mg/Kg       1	Midland         TPH GRO       Analytical Method:       S 8015B         58015       Date Analyzed:       2009-03-26         49553       Sample Preparation:       2009-03-26         RL         Flag       Result       Units         Spike         Flag       Result       Units         Flag       Result       Units         Spike         Flag       Result       Units       Spike         Flag       Result       Units       Mount         ene (TFT)       1.07       mg/Kg       1       1.00         obenzene (4-BFB)       0.904       mg/Kg       1       1.00	Midland TPH GROAnalytical Method:S 8015BPrep Me58015Date Analyzed:2009-03-26Analyzed49553Sample Preparation:2009-03-26PreparedRLFlagResultUnitsDilution $<1.00$ mg/Kg1Flag ResultUnitsDilutionFlag ResultUnitsDilutionAmount Recoveryene (TFT)1.07mg/Kg10.904mg/Kg11.0090

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34 Junction 10 inch	34 Junction 10 inch	Lea County, NM

#### Sample: 191178 - S Floor

Laboratory: Analysis: QC Batch: Prep Batch:	Midland BTEX 58014 49553		Ana Date Sam	lytical e Analy ple Pro	Method: yzed: eparation:	S 8021B 2009-03-26 2009-03-26	5 5	Prep M Analyz Prepar	Method: S xed By: M red By: M	5035 5035 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
				RI	L					
Parameter	Fla	ıg		Result	t	Units	5	Dilution		$\mathbf{RL}$
Benzene			<	< 0.0100	)	mg/Kį	r 5	1	C	).0100
Toluene			<	< 0.010	)	mg/Kg	S	1	C	).0100
Ethylbenzene			<	< 0.0100	C	mg/Kį	5	1	C	).0100
Xylene				0.196	3	mg/Kg	r 5	11	С	).0100
Surrogate		Fla	g Re	esult	Units	Dilutio	Spike n Amount	Percent Recovery	Reco Lirr	overy nits
Trifluorotolue	ene (TFT)		0	.992	mg/Kg	1	1.00	99	49 - 1	129.7
4-Bromofluor	obenzene (4-BFB)		0	.756	mg/Kg	1	1.00	76	45.2 -	144.3

## Sample: 191178 - S Floor

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH DRO 58013 49542			Analytical M Date Analyze Sample Prep	lethod: M ed: 2 aration: 2	4od. 8015B 009-03-26 009-03-26	P A P	rep Method: nalyzed By: repared By:	N/A LD LD
				RL					*** *
Parameter		Flag		Result		Units	Dilution		RL
DRO				374		mg/Kg	1		50.0
						Spik	e Percent	Reco	overy
Surrogate	Flag	$\mathbf{R}$	$\operatorname{esult}$	Units	Dilutio	n Amou	int Recovery	Lin	nits
n-Triacontane	e		100	mg/Kg	1	100	100	13.2 -	219.3

## Sample: 191178 - S Floor

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH GRO 58015 49553	Analytical Method: Date Analyzed: Sample Preparation:	S 8015B 2009-03-26 2009-03-26	Prep Method: Analyzed By: Prepared By:	S 5035 ME ME
		$\mathbf{RL}$			
Parameter	Flag	$\mathbf{Result}$	Units	Dilution	$\mathbf{RL}$
GRO		<1.00	mg/Kg	1	1.00

Report Date 34 Junction	e: March 27, 2009 10 inch		Work Order 34 Junctio	:: 9032541 n 10 inch		Page Nu L	ımber: ea Cou	11 of 20 nty, NM	
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits	
Trifluorotolu	ene (TFT)		1.08	mg/Kg	1	1.00	108	68.5	- 119.4
4-Bromofluor	robenzene (4-BFB)		0.881	mg/Kg	1	1.00		52	- 117
Sample: 19	1179 - E Floor								
Laboratory:	Midland					~			
Analysis:	BTEX		Analytical	Method:	S 8021B		Prep Me	ethod:	S 5035
QC Batch:	58014		Date Anal	yzed:	2009-03-26		Analyze	d By:	ME
Prep Batch:	49553		Sample Pr	eparation:	2009-03-26		Prepareo	d By:	ME
			RI	Ĺ		`			
Parameter	Flag		Resul	t	Units		Dilution		RL
Benzene			< 0.010	0	mg/Kg		1		0.0100
Toluene			< 0.010	0	mg/Kg		1		0.0100
Ethylbenzene	9		<0.010	0	mg/Kg		1		0.0100
Xylene	·····		<0.010	0	mg/Kg		1		0.0100
						Spike	Percent	$\operatorname{Re}$	covery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	L	imits
Trifluorotolu	ene (TFT)		1.01	mg/Kg	1	1.00	101	49 -	- 129.7
4-Bromofluor	robenzene (4-BFB)		0.771	mg/Kg	1	1.00	77	45.2	- 144.3
Sample: 19	1179 - E Floor								
Laboratory:	Midland								
Analysis:	TPH DRO		Analytica	al Method:	Mod. 8015B		Prep I	Method	: N/A
QC Batch:	58013		Date Ana	alyzed:	2009-03-26		Analy	zed By:	LD
Prep Batch:	49542		Sample F	reparation	: 2009-03-26		Prepa	red By:	LD
			$\operatorname{RL}$						

Parameter	$\mathbf{Fla}$	ag	Result	U	nits	Dilution	$\operatorname{RL}$
DRO			<50.0	mg/	′Kg	1	50.0
					Spike	Percent	Recovery
Surrogate	Flag	$\operatorname{Result}$	$\mathbf{Units}$	Dilution	Amount	Recovery	Limits
n-Triacontane		74.7	mg/Kg	1	100	75	13.2 - 219.3

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Report Date 34 Junction	e: March 27, 2009 10 inch		N	Work Order 34 Junction	r: 9032541 n 10 inch		Page Nu L	umber: 12 of 20 ea County, NM
Sample: 19	1179 - E Floor							
Laboratory:	Midland							
Analysis:	TPH GRO		Analytica	al Method:	S 8015B		Prep Me	ethod: S 5035
QC Batch:	58015		Date Ana	alyzed:	2009-03-26		Analyze	d By: ME
Prep Batch:	49553		Sample P	reparation	: 2009-03-26		Prepare	d By: ME
			$\operatorname{RL}$					
Parameter	$\mathbf{Flag}$		$\mathbf{Result}$		Units		Dilution	$\operatorname{RL}$
GRO	· · · · · · · · · · · · · · · · · · ·		<1.00		mg/Kg		1	1.00
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolue	ene (TFT)		1.09	mg/Kg	1	1.00	109	68.5 - 119.4
4-Bromofluor	robenzene (4-BFB)		0.899	mg/Kg	1	1.00	90	52 - 117
Analysis: QC Batch: Prep Batch:	BTEX 58014 49553		Analytical Date Anal Sample Pr	Method: yzed: eparation:	S 8021B 2009-03-26 2009-03-26		Prep Method: S Analyzed By: M Prepared By: M	
			RI	-				
Parameter	Flag		Resul	t	Units	I	Dilution	RL
Benzene			< 0.010	0	mg/Kg	•	1	0.0100
Toluene			< 0.010	0	mg/Kg		1	0.0100
Ethylbenzene	9		< 0.010	0	mg/Kg		1	0.0100
Xylene			< 0.010	0	mg/Kg		1	0.0100
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolue	ene (TFT)	'n	0.926	mg/Kg	1	1.00	93	49 - 129.7
4-Bromofluor	obenzene (4-BFB)		0.748	mg/Kg	1	1.00	75	45.2 - 144.3
Sample: 19	1180 - W Floor							

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Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	58013	Date Analyzed:	2009-03-26	Analyzed By:	LD
Prep Batch:	49542	Sample Preparation:	2009-03-26	Prepared By:	LD
		$\operatorname{RL}$			
Parameter	$\mathbf{Flag}$	$\operatorname{Result}$	Units	Dilution	$\operatorname{RL}$
DRO	· · · · · · · · · · · · · · · · · · ·	<50.0	mg/Kg	1	50.0

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Laboratory: Midland

Report Date 34 Junction	: March 27, 2009 10 inch	W ::	Work Order: 9032541 34 Junction 10 inch				Page Number: 13 of 20 Lea County, NM		
Surrogate	Flag	Result	Units	Dilu	tion	Spike Amount	Percent Recovery	Recovery Limits	
n-Triacontan	e	81.7	mg/Kg	ng/Kg 1 100		100	82	13.2 - 219.3	
Sample: 19	1180 - W Floor								
Laboratory:MidlandAnalysis:TPH GROQC Batch:58015Prep Batch:49553			Analytical Method: Date Analyzed: Sample Preparation:		S 8015B 2009-03-26 2009-03-26		Prep M Analyze Prepare	ethod: S 5035 ed By: ME d By: ME	
Parameter	Flag		$\operatorname{RL}$ Result		Units		Dilution	$\operatorname{RL}$	
GRO			<1.00		mg/Kg		1	1.00	
Surrogate		Flag	$\operatorname{Result}$	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits	
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB)		1.10 0.892	mg/Kg mg/Kg	1 1	$\begin{array}{c} 1.00\\ 1.00\end{array}$	110 89	68.5 - 119.4 52 - 117		

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## Sample: 191181 - C Floor

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Laboratory: Analysis: QC Batch: Prep Batch:	Midland BTEX 58014 49553			Analytical Date Analy Sample Pr	Method: yzed: eparation:	S 8021B 2009-03-26 2009-03-26		Prep Me Analyze Prepare	ethod: S 5035 d By: ME d By: ME	í
				RI	- -					
Parameter		Flag		Resul	t	Units		Dilution	RL	
Benzene				< 0.010	0	mg/Kg		1	0.0100	)
Toluene				< 0.010	0	mg/Kg		1	0.0100	)
Ethylbenzene				< 0.010	0	mg/Kg		1	0.0100	)
Xylene		100		< 0.010	0	mg/Kg		1	0.0100	)
_							Spike	Percent	Recovery	
Surrogate			Flag	$\mathbf{Result}$	Units	Dilution	Amount	Recovery	Limits	
Trifluorotolue	ene (TFT)			0.938	mg/Kg	1	1.00	94	49 - 129.7	
4-Bromofluor	obenzene (4-I	3FB)		0.754	mg/Kg	1	1.00	75	45.2 - 144.3	}

Report Date: March 27, 2009	Work Order: 9032541	Page Number: 14 of 20
34 Junction 10 inch	34 Junction 10 inch	Lea County, NM

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### Sample: 191181 - C Floor

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH DRO 58013 : 49542		Analytical M Date Analyz Sample Prep	lethod: Mod. ed: 2009- aration: 2009-	d: Mod. 8015B 2009-03-26 on: 2009-03-26		Method: N/A yzed By: LD ared By: LD
			$\mathbf{RL}$				
Parameter	Flag		$\mathbf{Result}$	U	nits	Dilution	$\operatorname{RL}$
DRO			<50.0	mg/	mg/Kg		50.0
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontan	9	71.0	mg/Kg	1	100	71	13.2 - 219.3
Sample: 19	1181 - C Floor						

Analysis: TPH GRO			Analytica	l Method:	S 8015B		Prep Me	thod:	S $5035$
QC Batch: 58015		Date Ana	Date Analyzed:		Analyzed E		l By:	ME	
Prep Batch:	49553		Sample P	reparation:	2009-03-26		Prepared By:		
			$\mathbf{RL}$						
Parameter	Flag		$\operatorname{Result}$		Units		Dilution		$\operatorname{RL}$
GRO			<1.00		mg/Kg		1		1.00
						Spike	Percent	Re	ecovery
Surrogate		Flag	$\mathbf{Result}$	Units	Dilution	Amount	Recovery	I	imits
Trifluorotolue	ene (TFT)		1.08	mg/Kg	1	1.00	108	68.5	5 - 119.4
4-Bromofluor	obenzene (4-BFB)		0.875	mg/Kg	1	1.00	88	52	2 - 117

## Method Blank (1) QC Batch: 58013

QC Batch: Prep Batch:	58013 49542		Date Analyzed: QC Preparation	2009-03-26 n: 2009-03-26		Ar Pr	alyzed By: epared By:	LD LD
			I	MDL				
Parameter		Flag	R	$\operatorname{esult}$	I	Units		$\operatorname{RL}$
DRO			<	<46.2	m	ng/Kg	·····	50
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Reco Lin	overy nits
n-Triacontan	e	33.7	mg/Kg	1	100	34	13 -	178.5

Report Date: March 27, 2 34 Junction 10 inch	009		Work Or 34 Junc	der: 90325 tion 10 inc	541 ch	1   Page Number: 15 or     n   Lea County,			
Method Blank (1)	QC Batch: 58014								
QC Batch: 58014 Prep Batch: 49553		Date Ar QC Prej	alyzed: paration:	2009-03 2009-03	-26 -26		Anal Prep	lyzed By: bared By:	ME ME
				MDI			-	-	
Parameter	Flag		]	Result		U	nits		BL
Benzene	8		<0.	.00100		0	g/Kg		0.01
Toluene			<0.	.00100		mg	g/Kg		0.01
Ethylbenzene			<0.	.00110		mg	g/Kg		0.01
Xylene			<0.	.00360		mę	g/Kg		0.01
Surrogate	Flag	Result	$\mathbf{U}\mathbf{n}\mathbf{i}\mathbf{t}$	s Dil	ution	Spike Amount	Percent Recovery	Rec Li	overy mits
Trifluorotoluene (TFT)		1.03	mg/K	g	1	1.00	103	65.6	- 130.6
4-Bromofluorobenzene (4-L	BFB)	0.829	mg/K	.g	1	1.00	83	51.9	- 128.1
QC Batch: 58015 Prep Batch: 49553		Date Ar QC Prej	nalyzed: paration:	2009-03 2009-03	-26 -26		Anal Prep	yzed By: ared By:	ME ME
Parameter	Flag		IV. Re	IDL sult		Ur	nite		RI.
GRO	1 146		<0.	.482		mg	/Kg		1
Surrogate	Flag	Result	Unit	s Dil	ution	Spike Amount	Percent Recovery	Rec Li	overy mits
Trifluorotoluene (TFT)		0.945	mg/K	g	1	1.00	94	75.8	- 98.5
4-Bromofluorobenzene (4-1	BFB)	0.975	mg/K	<u>g</u>	1	1.00	98	56.5	- 109.5
Laboratory Control Sp QC Batch: 58013 Prep Batch: 49542	ike (LCS-1)	Date Aı QC Pre	nalyzed: paration:	2009-03 2009-03	-26 -26		Ana Prep	lyzed By pared By:	: LD : LD
Damarr	LC	S	Inita	D:1	Spike	Mat	rix ult Doo	R	lec.
	100 Kest	1 m	omts og/Kg	<u> </u>	250	rtest	$\frac{110}{32}$ $\frac{112}{112}$	57 /	- 133 /
Percent recovery is based of	on the spike result.	RPD is	based on	the spike	and spike	duplicate	result.	01.4	- 100.4
• •				Spile	Motrier	-	Rog		חסק
Param	Regult	Units	Dil	Amount	Result	Rec	Limit	RPD	Limit
DRO	293	mg/Kg	1	250	<46.2	117	57.4 - 133.4	4	20
		0/0	-						

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Report Date: March 27, 2009	Work Order: 9032541	Page Number: 16 of 20
34 Junction 10 inch	34 Junction 10 inch	Lea County, NM

	LCS	LCSD <sup>+</sup>			Spike	LCS	LCSD	Rec.
Surrogate	Result	$\mathbf{Result}$	Units	Dil.	Amount	Rec.	Rec.	Limit
n-Triacontane	74.9	82.7	mg/Kg	1	100	75	83	48.5 - 146.7

#### Laboratory Control Spike (LCS-1)

QC Batch:	58014	Date Analyzed:	2009-03-26	Analyzed By:	ME
Prep Batch:	49553	QC Preparation:	2009-03-26	Prepared By:	ME

	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
Benzene	1.24	mg/Kg	1	1.00	< 0.00100	124	72.7 - 129.8
Toluene	1.26	mg/Kg	1	1.00	< 0.00100	126	71.6 - 129.6
Ethylbenzene	1.28	mg/Kg	1	1.00	< 0.00110	128	70.8 - 129.7
Xylene	3.87	mg/Kg	1	3.00	< 0.00360	129	70.9 - 129.4

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCSD			Spike	Matrix		Rec.		$\operatorname{RPD}$
Param	$\mathbf{Result}$	Units	Dil.	Amount	$\mathbf{Result}$	Rec.	$\operatorname{Limit}$	$\operatorname{RPD}$	Limit
Benzene	1.09	mg/Kg	1	1.00	< 0.00100	109	72.7 - 129.8	13	20
Toluene	1.05	mg/Kg	1	1.00	< 0.00100	105	71.6 - 129.6	18	20
Ethylbenzene	1.05	mg/Kg	1	1.00	< 0.00110	105	70.8 - 129.7	20	20
Xylene	3.18	mg/Kg	1	3.00	< 0.00360	106	70.9 - 129.4	20	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	$\mathbf{Result}$	Result	Units	Dil.	Amount	Rec.	Rec.	$\mathbf{Limit}$
Trifluorotoluene (TFT)	0.888	0.971	mg/Kg	1	1.00	89	97	65.9 - 132
4-Bromofluorobenzene (4-BFB)	0.765	0.847	mg/Kg	1	1.00	76	85	55.2 - 128.9

#### Laboratory Control Spike (LCS-1)

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QC Batch:	58015 40552		Date A	nalyzed:	2009-03-	-26		Ana	lyzed By:	ME ME
гтер Бакси:	49000		QUIN	eparation:	2009-03	-20		FTe	bared by:	NIE
		$\mathbf{LC}$	S			Spike	Matr	ix	R	lec.
Param		Rest	ult	Units	Dil.	Amount	$\operatorname{Resu}$	lt Rec.	$\mathbf{L}\mathbf{i}$	mit
GRO		7.0	1 1	mg/Kg	1	10.0	< 0.4	82 70	60.5	- 100.1
Percent recov	very is based on the	spike result.	RPD is	based on	the spike	and spike d	luplicate	result.		
<i>۲</i>		LCSD			Spike	Matrix		Rec.		RPD
Param		$\operatorname{Result}$	Units	Dil.	Amount	Result	Rec.	$\operatorname{Limit}$	RPD	Limit
GRO		7.50	mg/Kg	<u>, 1</u>	10.0	< 0.482	75	60.5 - 100.1	, 7	20

Report Date: March 27, 2009	Work Order: 9032541	Page Number: 17 of 20
34 Junction 10 inch	34 Junction 10 inch	Lea County, NM

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	$\operatorname{Result}$	Result	Units	Dil.	Amount	Rec.	Rec.	$\operatorname{Limit}$
Trifluorotoluene (TFT)	0.964	1.00	mg/Kg	1	1.00	96	100	78.8 - 104.7
4-Bromofluorobenzene (4-BFB)	1.02	1.03	mg/Kg	1	1.00	102	103	66.1 - 107.3

#### Matrix Spike (MS-1) Spiked Sample: 191174

QC Batch:	58013	Date Analyzed:	2009-03-26	Analyzed By:	LD
Prep Batch:	49542	QC Preparation:	2009-03-26	Prepared By:	LD

	MS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	$\operatorname{Limit}$
DRO	280	mg/Kg	1	250	<46.2	112	35.2 - 167.1

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MSD			Spike	Matrix		Rec.		$\operatorname{RPD}$
Param	$\operatorname{Result}$	Units	Dil.	Amount	Result	Rec.	$\operatorname{Limit}$	$\operatorname{RPD}$	$\operatorname{Limit}$
DRO	300	mg/Kg	1	250	<46.2	120	35.2 - 167.1	7	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MS	MSD			Spike	MS	MSD	Rec.
Surrogate	$\mathbf{Result}$	$\mathbf{Result}$	Units	Dil.	Amount	Rec.	Rec.	$\operatorname{Limit}$
n-Triacontane	68.1	78.7	mg/Kg	1	100	68	79	34.5 - 178.4

#### Matrix Spike (MS-1) Spiked Sample: 191180

QC Batch:	58014	Date Analyzed:	2009-03-26	Analyzed By:	ME
Prep Batch:	49553	QC Preparation:	2009-03-26	Prepared By:	ME

	MS			Spike	Matrix		Rec.
Param	$\mathbf{Result}$	$\mathbf{Units}$	Dil.	Amount	$\mathbf{Result}$	Rec.	$\operatorname{Limit}$
Benzene	1.08	mg/Kg	1	1.00	< 0.00100	108	58.6 - 165.2
Toluene	1.08	mg/Kg	1	1.00	< 0.00100	108	64.2 - 153.8
Ethylbenzene	1.03	mg/Kg	1	1.00	< 0.00110	103	61.6 - 159.4
Xylene	3.00	mg/Kg	1	3.00	< 0.00360	100	64.4 - 155.3

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	$\mathbf{Result}$	Rec.	Limit	$\operatorname{RPD}$	Limit
Benzene	1.12	mg/Kg	1	1.00	< 0.00100	112	58.6 - 165.2	4	20
Toluene	1.08	mg/Kg	1	1.00	< 0.00100	108	64.2 - 153.8	0	20
Ethylbenzene	1.09	mg/Kg	1	1.00	< 0.00110	109	61.6 - 159.4	6	20
Xylene	3.16	mg/Kg	1	3.00	< 0.00360	105	64.4 - 155.3	5	20

Report Date: March 27, 2009	Work Order: 9032541	Page Number: 18 of 20
34 Junction 10 inch	34 Junction 10 inch	Lea County, NM

	MS	MSD			Spike	MS	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	0.966	0.972	mg/Kg	1	1	97	97	76 - 127.9
4-Bromofluorobenzene (4-BFB)	0.765	0.766	mg/Kg	1	1	76	77	72 - 127.8

#### Matrix Spike (MS-1) Spiked Sample: 191175

QC Batch:	58015	Date Analyzed:	2009-03-26	Analyzed By:	ME
Prep Batch:	49553	QC Preparation:	2009-03-26	Prepared By:	ME

	MS			Spike	Matrix		Rec.
Param	$\mathbf{Result}$	Units	Dil.	Amount	$\mathbf{Result}$	Rec.	$\operatorname{Limit}$
GRO	9.56	mg/Kg	1	10.0	< 0.482	96	12.8 - 175.2

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MSD			Spike	Matrix		Rec.		$\operatorname{RPD}$
Param	$\mathbf{Result}$	Units	Dil.	Amount	Result	Rec.	Limit	$\operatorname{RPD}$	$\operatorname{Limit}$
GRO	8.43	mg/Kg	1	10.0	< 0.482	84	12.8 - 175.2	13	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MS	MSD			Spike	MS	MSD	Rec.
Surrogate	$\mathbf{Result}$	$\mathbf{Result}$	Units	Dil.	Amount	Rec.	Rec.	$\operatorname{Limit}$
Trifluorotoluene (TFT)	1.10	1.09	mg/Kg	1	1	110	109	60.8 - 132.1
4-Bromofluorobenzene (4-BFB)	0.932	0.932	mg/Kg	1	1	93	93	31.3 - 161.7

#### Standard (CCV-1)

QC Batch:	58013		Date Ana	alyzed: 2009-0	3-26	Anal	yzed By: LD
			CCVs True	CCVs Found	CCVs Percent	Percent Becovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		mg/Kg	250	254	102	85 - 115	2009-03-26

#### Standard (CCV-2)

QC Batch:	58013		Date Ana	alyzed: 2009-0	3-26	Anal	yzed By: LD
			CCVs	CCVs	CCVs	Percent	
			True	Found	$\operatorname{Percent}$	Recovery	Date
Param	Flag	$\mathbf{Units}$	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		mg/Kg	250	276	110	85 - 115	2009-03-26

Report Dat 34 Junction	te: March 27, 20 1 10 inch	009	Wor 34	ck Order: 9032 Junction 10 in	541 .ch	Page Number: 19 c Lea County,			
Standard (	(CCV-3)								
QC Batch:	58013		Date Analy	zed: 2009-03	Anal	yzed By: LD			
Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed		
DRO		mg/Kg	250	275	110	85 - 115	2009-03-26		
Standard ( QC Batch:	(CCV-2)		Date Analy	zed: 2009-03-	-26	Anal	vzed Bv: ME		
•			CCVs True	CCVs Found	CCVs Percent	Percent	Date		
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed		
Benzene Toluene Ethylbenzer Xylene	ne	mg/Kg mg/Kg mg/Kg mg/Kg	$\begin{array}{c} 0.100 \\ 0.100 \\ 0.100 \\ 0.300 \end{array}$	$\begin{array}{c} 0.110 \\ 0.108 \\ 0.102 \\ 0.304 \end{array}$	110 108 102 101	85 - 115 85 - 115 85 - 115 85 - 115 85 - 115	2009-03-26 2009-03-26 2009-03-26 2009-03-26		
Standard ( QC Batch:	(CCV-3) 58014		Date Analy	zed: 2009-03-	26	Analy	yzed By: ME		
			CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date		
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed		
Benzene Toluene Ethylbenzer Xylene	ne	mg/Kg mg/Kg mg/Kg mg/Kg	$\begin{array}{c} 0.100 \\ 0.100 \\ 0.100 \\ 0.300 \end{array}$	$\begin{array}{c} 0.109 \\ 0.105 \\ 0.0991 \\ 0.295 \end{array}$	109 105 99 98	85 - 115 85 - 115 85 - 115 85 - 115 85 - 115	2009-03-26 2009-03-26 2009-03-26 2009-03-26		
Standard ( QC Batch:	(CCV-1) 58015		Date Analy	zed: 2009-03-	26	Anal	yzed By: ME		

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			$\operatorname{CCVs}$	$\mathbf{CCVs}$	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		mg/Kg	1.00	0.934	93	85 - 115	2009-03-26

## Standard (CCV-2)

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QC Batch: 58015

Date Analyzed: 2009-03-26

Analyzed By: ME

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Report Date: March 27, 2009 34 Junction 10 inch			V ;	Vork Order: 903 34 Junction 10	32541 inch	Page Number: 20 of 20 Lea County, NM				
Param	Flag	Units	ĆCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed			
GRO	0	mg/Kg	1.00	0.901	90	85 - 115	2009-03-26			

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AT SALES AND THE TRANSPORTATION OF A STREET ASSAULTED AND A A



Analytical and Quality Control Report

Ron Rounsaville Nova Safety & Environmental 2057 Commerce St. Midland, TX, 79703

Report Date: April 15, 2009

Work Order: 9041428

Project Location:Lea County, NMProject Name:34 Junction 10 inchProject Number:34 Junction 10 inch

LELAP-02003 Kansas E-10317

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
193027	N Floor-2	soil	2009-04-14	09:00	2009-04-14
193028	S Floor-2	soil	2009-04-14	09:30	2009-04-14
193029	SP-1A	soil	2009-04-14	10:00	2009-04-14
<b>193</b> 030	SP-1B	soil	2009-04-14	10:20	2009-04-14
193031	SP-1C	soil	2009-04-14	10:35	2009-04-14
193032	SP-1D	soil	2009-04-14	10:55	2009-04-14

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 16 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Michael abel

Dr. Blair Leftwich, Director

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#### Standard Flags

 ${\bf B}$  - The sample contains less than ten times the concentration found in the method blank.

## **Case Narrative**

Samples for project 34 Junction 10 inch were received by TraceAnalysis, Inc. on 2009-04-14 and assigned to work order 9041428. Samples for work order 9041428 were received intact at a temperature of 13.4 deg. C (straight from field).

Samples were analyzed for the following tests using their respective methods.

		Prep	Prep	$\mathbf{QC}$	Analysis
Test	Method	Batch	Date	$\operatorname{Batch}$	Date
BTEX	S 8021B	49984	2009-04-14 at 14:45	58542	2009-04-14 at 14:45
TPH DRO	Mod. 8015B	49967	2009-04-14 at $09:30$	58556	2009-04-14 at $12:25$
TPH GRO	S 8015B	49984	2009-04-14 at $14:45$	58543	2009-04-14 at $14:45$

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 9041428 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

## **Analytical Report**

#### Sample: 193027 - N Floor-2

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	58542	Date Analyzed:	2009-04-14	Analyzed By:	ME
Prep Batch:	49984	Sample Preparation:	2009-04-14	Prepared By:	ME
		RL			

		10					
Parameter Fla	g	Resul	t	Units	U.5	Dilution	$\operatorname{RL}$
Benzene		< 0.010	0	mg/Kg	· · · · · · · · · · ·	1	0.0100
Toluene		< 0.010	0	mg/Kg		1	0.0100
Ethylbenzene		< 0.010	0	mg/Kg		1	0.0100
Xylene		< 0.010	0	mg/Kg		1	0.0100
					Spike	Percent	Recovery
Surrogate	Flag	$\mathbf{Result}$	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		2.00	mg/Kg	1	2.00	100	49 - 129.7
4-Bromofluorobenzene (4-BFB)		1.50	mg/Kg	1	2.00	75	45.2 - 144.3

#### Sample: 193027 - N Floor-2

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH DRO 58556 49967			Analytical M Date Analyz Sample Prep	lethod: ed: aration:	Mod. 80 2009-04- 2009-04-	15B 14 14	Prep Anal Prep	Method: yzed By: ared By:	N/A LD LD
Parameter		Flag		RL Result		Units	3	Dilution	·	RL
DRO			<50.0		mg/Kg	5	1		50.0	
Surrogate	Flag		Result	Units	Diluti	on	Spike Amount	Percent Recovery	Reco Lin	overy
n-Triacontane	9		170	mg/Kg	1		100	170	13.2 -	219.3

## Sample: 193027 - N Floor-2

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S $5035$
QC Batch:	58543	Date Analyzed:	2009-04-14	Analyzed By:	ME
Prep Batch:	49984	Sample Preparation:	2009-04-14	Prepared By:	ME

continued ...

Report Date: April 15, 2009	Work Order: 9041428	Page Number: 5 of 16
34 Junction 10 inch	34 Junction 10 inch	Lea County, NM

### sample 193027 continued ...

Parameter	Flag		RL Result		Units		Dilution	RL
Parameter	Flag		RL Result		Units		Dilution	RL
GRU			1.90		mg/Kg		1	1.00
Surrogate		Flag	$\operatorname{Result}$	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolue 4-Bromofluoro	ne (TFT) bbenzene (4-BFB)		$\begin{array}{c} 1.95 \\ 1.47 \end{array}$	mg/Kg mg/Kg	1 1	$\begin{array}{c} 2.00 \\ 2.00 \end{array}$	98 74	68.5 - 119.4 52 - 117
Sample: 193 Laboratory: Analysis: QC Batch: Prep Batch:	<b>5028 - S Floor-2</b> Midland BTEX 58542 49984		Analytical Date Analy Sample Pre	Method: yzed: eparation:	S 8021B 2009-04-14 2009-04-14		Prep Me Analyze Prepare	ethod: S 5035 d By: ME d By: ME
Parameter Benzene Toluene Ethylbenzene	Flag		RI Resul <0.0100 <0.0100 <0.0100	t ) ) )	Units mg/Kg mg/Kg mg/Kg	I	Dilution 1 1 1	RL 0.0100 0.0100 0.0100
Xylene			<0.0100	)	mg/Kg	Spike	1 Percent	0.0100 Recovery
Surrogate Trifluorotoluer 4-Bromofluoro	ne (TFT) obenzene (4-BFB)	Flag	Result           2.00           1.52	Units mg/Kg mg/Kg	Dilution 1 1	Amount 2.00 2.00	100 76	Limits 49 - 129.7 45.2 - 144.3

## Sample: 193028 - S Floor-2

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH DRO 58556 49967	Analytical Method: Date Analyzed: Sample Preparation:	Mod. 8015B 2009-04-14 2009-04-14	Prep Method: Analyzed By: Prepared By:	N/A LD LD
		$\operatorname{RL}$			
Parameter	Flag	Result	Units	Dilution	$\mathbf{RL}$
DRO		<50.0	mg/Kg	1	50.0

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Report Date: April 15, 2009 34 Junction 10 inch			Work Order: 9041428 34 Junction 10 inch				Page Number: 6 of 16 Lea County, NM		
Surrogate	Flag	Result	Units	$\operatorname{Dilut}$	ion	Spike Amount	Percent Recovery	Recovery Limits	
n-Triacontan	e	139	mg/Kg	1		100	139	13.2 - 219.3	
Sample: 19	3028 - S Floor-2								
Laboratory:	Midland						<b>D</b> 14		
Analysis:	TPH GRO		Analytica	I Method:	S 8015B	4	Prep Me	thod: S 5035	
QC Batch: Prep Batch:	58543 49984		Sample P	reparation:	2009-04-14 2009-04-14	4	Prepare	d By: ME d By: ME	
			$\operatorname{RL}$						
Parameter	Flag		$\mathbf{Result}$		Units		Dilution	$\operatorname{RL}$	
GRO			<1.00		mg/Kg		1	1.00	
						Spike	Percent	Recovery	
Surrogate		Flag	$\mathbf{Result}$	Units	Dilution	Amount	Recovery	Limits	
Trifluorotolu	ene (TFT)		2.05	mg/Kg	1	2.00	102	68.5 - 119.4	
4-Bromofluor	obenzene (4-BFB)		1.49	mg/Kg	1	2.00	74	52 - 117	

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#### Sample: 193029 - SP-1A

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Laboratory: M Analysis: B QC Batch: 58 Prep Batch: 49	fidland TEX 8542 9984		Analytical Date Analy Sample Pre	Method: yzed: eparation:	S 8021B 2009-04-14 2009-04-14		Prep Me Analyzec Preparec	thod: S 503 l By: ME l By: ME	5
			RI	. /					
Parameter	Flag		Resul	t	Units	]	Dilution	R	$\mathbf{L}$
Benzene			< 0.010	)	mg/Kg	· · · · · · · · · · · · · · · · · · ·	1	0.010	0
Toluene			< 0.010	C	mg/Kg		1	0.010	)()
Ethylbenzene			< 0.010	)	mg/Kg		1	0.010	00
Xylene			< 0.010	)	mg/Kg		1	0.010	0
						Spike	Percent	Recovery	,
Surrogate		Flag	$\mathbf{Result}$	Units	Dilution	Amount	Recovery	Limits	
Trifluorotoluene	e (TFT)		1.91	mg/Kg	1	2.00	96	49 - 129.7	7
4-Bromofluorob	enzene (4-BFB)		1.50	mg/Kg	1	2.00	75	45.2 - 144.	.3

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Report Date: April 15, 2009	Work Order: 9041428	Page Number: 7 of 16
34 Junction 10 inch	34 Junction 10 inch	Lea County, NM

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### Sample: 193029 - SP-1A

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Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH DRO 58556 49967		Analytical M Date Analyz Sample Prer	Method: Mo ed: 200	od. 8015B 09-04-14 09-04-14	Prep Anal Prep	Method: N/A yzed By: LD ared By: LD
Parameter	F	lag	RL Result		Units	Dilution	RL
DRO		,	101	n	ng/Kg	1	50.0
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	9	175	mg/Kg	1	100	175	13.2 - 219.3

### Sample: 193029 - SP-1A

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH GRO 58543 49984		Analytica Date Ana Sample P	l Method: lyzed: reparation:	S 8015B 2009-04-14 2009-04-14		Prep Me Analyzec Preparec	thod: S 5035 1 By: ME 1 By: ME
			$\mathbf{RL}$					
Parameter	$\mathbf{Flag}$		Result		Units		Dilution	$\operatorname{RL}$
GRO			<1.00		mg/Kg		1	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolue	ene (TFT)		2.06	_ mg/Kg	1	2.00	103	68.5 - 119.4
4-Bromofluor	obenzene (4-BFB)		1.46	mg/Kg	1	2.00	73	52 - 117

### Sample: 193030 - SP-1B

Analysis:BTEXAnalytical Method:S 8021BPrep Method:S 5038QC Batch:58542Date Analyzed:2009-04-14Analyzed By:MEPrep Batch:49984Sample Preparation:2009-04-14Prepared By:ME	Laboratory:	Midland					
QC Batch:58542Date Analyzed:2009-04-14Analyzed By:MEPrep Batch:49984Sample Preparation:2009-04-14Prepared By:ME	Analysis:	BTEX		Analytical Method:	S 8021B	Prep Method:	S 5035
Prep Batch:49984Sample Preparation:2009-04-14Prepared By:ME	QC Batch:	58542		Date Analyzed:	2009-04-14	Analyzed By:	ME
	Prep Batch:	49984		Sample Preparation:	2009-04-14	Prepared By:	ME
$\operatorname{RL}$				$\operatorname{RL}$			
Parameter Flag Result Units Dilution RI	Parameter		Flag	Result	Units	Dilution	$\mathbf{RL}$
Benzene <0.0100 mg/Kg 1 0.0100	Benzene			< 0.0100	mg/Kg	1	0.0100
Toluene <0.0100 mg/Kg 1 0.0100	Toluene			< 0.0100	mg/Kg	1	0.0100
Ethylbenzene <0.0100 mg/Kg 1 0.0100	Ethylbenzene	Э		< 0.0100	m mg/Kg	1	0.0100
Xylene <0.0100 mg/Kg 1 0.0100	Xylene			<0.0100	mg/Kg	1	0.0100

Report Date: 34 Junction	: April 15, 2009 10 inch		W :	Vork Order: 34 Junction	9041428 10 inch		Page N L	umber: 8 of 16 ea County, NM
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolue 4-Bromofluor	ene (TFT) obenzene (4-BFB)		$\frac{2.00}{1.48}$	mg/Kg mg/Kg	1 1	2.00 2.00	100 74	49 - 129.7 45.2 - 144.3
Sample: 19	3030 - SP-1B							
Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH DRO 58556 49967		Analytica Date Ana Sample P	l Method: lyzed: reparation:	Mod. 8015] 2009-04-14 2009-04-14	В	Prep 1 Analy: Prepa	Method: N/A zed By: LD red By: LD
Doromotor	Flog		RL Rogult		Unita		Dilution	ВI
DRO	riag		87.6		mg/Kg		1	50.0
Surrogate	Flag	Result	Units	Dilu	tion A	Spike mount	Percent Recovery	Recovery Limits
<u>n-macontane</u>	2000 CD 1D	100	ing/ Kg	1		100	100	10.2 - 219.0
Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH GRO 58543 49984		Analytica Date Ana Sample Pr	l Method: lyzed: reparation:	S 8015B 2009-04-14 2009-04-14		Prep Me Analyze Prepare	ethod: S 5035 d By: ME d By: ME
Parameter	Flag		RL Result		Units		Dilution	RL
GRO			<1.00		mg/Kg		1	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolue 4-Bromofluor	ene (TFT) obenzene (4-BFB)		1.96 $1.45$	mg/Kg mg/Kg	· 1 1	$\begin{array}{c} 2.00 \\ 2.00 \end{array}$	98 72	68.5 - 119.4 52 - 117

#### Sample: 193031 - SP-1C

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Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	58542	Date Analyzed:	2009-04-14	Analyzed By:	$\mathbf{ME}$
Prep Batch:	49984	Sample Preparation:	2009-04-14	Prepared By:	ME

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Report Date: April 15, 2009 34 Junction 10 inch			V	Vork Order: 34 Junction	9041428 10 inch		Page Number: 9 of 16 Lea County, NM		
D (			RI	- -	. <b>.</b>			DI	
Parameter	Flag		Resul	t	Units		Dilution	RL	
Benzene			< 0.010	0	mg/Kg		1	0.0100	
Toluene			< 0.010	0	mg/Kg		1	0.0100	
Ethylbenzene			< 0.010	0	mg/Kg		1	0.0100	
Xylene			< 0.010	0	mg/Kg		1	0.0100	
						Spike	Percent	Recovery	
Surrogate		Flag	$\mathbf{Result}$	Units	Dilution	Amount	Recovery	Limits	
Trifluorotoluene (TFT	Г)		1.98	mg/Kg	1	2.00	99	49 - 129.7	
4-Bromofluorobenzen	e (4-BFB)		1.50	mg/Kg	1	2.00	75	45.2 - 144.3	

### Sample: 193031 - SP-1C

n-Triacontane	e	147	mg/Kg	1	100	147	13.2 - 219.3
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
DRO			113	m	g/Kg	1	50.0
Parameter	Fla	ng	RL Result	I	Units	Dilution	RL
Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH DRO 58556 49967		Analytical M Date Analyz Sample Prep	fethod: Mod ed: 2009 paration: 2009	l. 8015B 9-04-14 9-04-14	Prep Analy Prepa	Method: N/A yzed By: LD ared By: LD

### Sample: 193031 - SP-1C

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Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH GRO 58543 49984		Analytical Date Anal Sample Pr	Method: lyzed: reparation:	S 8015B 2009-04-14 2009-04-14		Prep Me Analyzec Preparec	ethod: d By: d By:	S 5035 ME ME
			$\mathbf{RL}$						
Parameter	Flag		$\mathbf{Result}$		Units		Dilution		$\mathbf{RL}$
GRO			<1.00		mg/Kg		1		1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Re	ecovery Jimits
Trifluorotolue	ene (TFT)		2.09	mg/Kg	1	2.00	104	68.5	5 - 119.4
4-Bromofluor	obenzene (4-BFB)		1.48	mg/Kg	1	2.00	74	52	2 - 117

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34 Junction 10 inch	34 Junction 10 inch	Lea County, NM

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## Sample: 193032 - SP-1D

Laboratory: Analysis: QC Batch: Prep Batch:	Midland BTEX 58542 49984			Analytical Date Anal Sample Pr	Method: yzed: eparation:	S 8021B 2009-04-14 2009-04-14	·	Prep Me Analyze Prepare	ethod: ed By: ed By:	S 5035 ME ME
-				ומ	r			_	-	
Parameter		Flag		Resul	L t	Units		Dilution		$\operatorname{RL}$
Benzene				< 0.010	0	mg/Kg		1		0.0100
Toluene				< 0.010	0	mg/Kg		1		0.0100
Ethylbenzene				< 0.010	0	mg/Kg		· 1		0.0100
Xylene				< 0.010	0	mg/Kg	•	1		0.0100
							Spike	Percent	$\mathbf{Re}$	covery
Surrogate			Flag	$\mathbf{Result}$	Units	Dilution	Amount	Recovery	$\mathbf{L}$	imits
Trifluorotolue	ene (TFT)			1.98	mg/Kg	1	2.00	99	49 -	- 129.7
4-Bromofluor	obenzene (4-1	BFB)		1.53	mg/Kg	1	2.00	76	45.2	- 144.3

### Sample: 193032 - SP-1D

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH DRO 58556 49967		Analytical Date Analy Sample Pre	Method: M yzed: 2 eparation: 2	Aod. 8015B 009-04-14 009-04-14	Pr Ar Pr	ep Method: N/A nalyzed By: LD epared By: LD
			$\mathbf{RL}$				
Parameter	$\mathbf{F}$	$\log$	$\operatorname{Result}$		Units	Dilution	$\operatorname{RL}$
DRO			84.0		mg/Kg	1	50.0
					$\mathbf{Spike}$	Percent	Recovery
Surrogate	$\operatorname{Flag}$	$\operatorname{Result}$	Units	Dilutio	n Amount	Recovery	Limits
n-Triacontane	2	139	mg/Kg	1	100	139	13.2 - 219.3

## Sample: 193032 - SP-1D

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Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH GRO 58543 49984	Analytical Method: Date Analyzed: Sample Preparation:	S 8015B 2009-04-14 2009-04-14	Prep Method: Analyzed By: Prepared By:	S 5035 ME ME
		$\mathbf{RL}$			
Parameter	Flag	$\operatorname{Result}$	Units	Dilution	$\mathbf{RL}$
GRO		<1.00	mg/Kg	1	1.00

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Report Date: April 15, 2009 34 Junction 10 inch		W ::	Vork Order: 9 34 Junction 1	9041428 10 inch		Page Number: 11 o Lea County,			
Surrogate	Flag	$\operatorname{Result}$	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits		
Trifluorotoluene (TFT)	<u> </u>	2.07	mg/Kg	1	2.00	104	68.5 - 119.4		
4-Bromofluorobenzene (4-BFB)		1.48	mg/Kg	1	2.00	74	52 - 117		
Method Blank (1) QC Ba	tch: 58542								
QC Batch: 58542 Prep Batch: 49984		Date Ana QC Prep	alyzed: 20 paration: 20	09-04-14 09-04-14		Analy Prepa	rzed By: ME ared By: ME		
			MD	L					
Parameter	Flag		Resu	lt	Un	its	$\mathbf{RL}$		
Benzene			< 0.0010	00	mg	′Kg	, 0.01		
Toluene			< 0.0010	00	mg	′Kg	0.01		
Ethylbenzene			< 0.001	10	mg	/Kg	0.01		
Xylene			< 0.0036	50	mg,	/Kg	0.01		
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits		
Trifluorotoluene (TFT)	1 100	1.96	mg/Kg	1	2.00	98	65.6 - 130.6		
4-Bromofluorobenzene (4-BFB)		1.76	mg/Kg	1	2.00	88	51.9 - 128.1		
<b>Method Blank (1)</b> QC Ba QC Batch: 58543 Prep Batch: 49984	tch: 58543	Date An QC Prep	alyzed: 20 paration: 20	09-04-14 09-04-14		Analy Prepa	vzed By: ME wred By: ME		
	1.1		MDL		¥7.		DI		
Parameter	riag		Kesult	<u> </u>	Uni	Ka			
		······································	<u></u>		'ung/	ng	1		
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits		
		1.95	mg/Kg	1	2.00	98	71.9 - 115		
Trifluorotoluene (TFT)						( ) <b>4</b>			

QC Batch:	58556	Date Analyzed:	2009-04-14	Analyzed By:	LD
Prep Batch:	49967	QC Preparation:	2009-04-14	Prepared By:	LD

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Report Date: 34 Junction 1	April 15, 2009 0 inch	Work Order: 9041428 34 Junction 10 inch				Page Nu L	ımber: 1 ea Coun	2 of 16 ty, NM				
Parameter DRO		Flag	•	F	MDL tesult 6.18			(	Jnits g/Kg			RL 50
Surrogate	Flag	Result	Unit	s	Dilution	L	Spil Amo	ke unt	P Re	Percent ecovery	Re L	covery imits
n-Triacontane		101	mg/ŀ	(g	1		100	)		101	13	- 178.5
Laboratory	Control Spike (I	LCS-1)										
QC Batch: Prep Batch:	58542 49984		Date A QC Pre	nalyzed: eparatio	: 2009-0 n: 2009-0	)4-14 )4-14				Analy Prepa	zed By: ared By:	ME ME
		LC	S			$\operatorname{Spil}$	æ	Ma	trix		R	lec.
Param		Res	ult U	Jnits	Dil.	Amo	ınt	Res	sult	Rec.	Li	mit
Benzene		1.8	9 m	g/Kg	1	2.0	)	< 0.0	0100	94	72.7	- 129.8
Toluene		1.9	12 m	g/Kg	1	2.0	) ^	<0.0	0100	96	71.6	- 129.6
Ethylbenzene		1.9	13 m	g/Kg	1	2.0	J	<0.0		96	70.8	- 129.7
Xylene		0.7	<u>o</u> m	g/ <b>n</b> g	1	0.0	J	<0.0	0300	90	70.9	- 129.4
Percent recove	ery is based on the	e spike result	. RPD is	based o	n the spik	e and s	pike d	uplicat	e resul	lt.		,
		LCSD			Spike	Ma	triv			Rec		RPD
Param		Result	Units	Dil.	Amount	Re	sult	Rec.	1	Limit	RPD	Limit
Benzene	-	2.02	mg/Kg	1	2.00	<0.0	0100	101	72.7	7 - 129.8	7	20
Toluene		2.03	mg/Kg	1	2.00	< 0.0	0100	102	71.6	6 - 129.6	6	$20^{-0}$
Ethylbenzene		2.06	mg/Kg	1	2.00	<0.0	0110	103	70.8	3 - 129.7	6	$\frac{1}{20}$
Xvlene		6.22	mg/Kg	1	6.00	<0.0	0360	104	70.9	) - 129.4	8	20
Percent recove	ery is based on the	e spike result	. RPD is	based o	n the spik	e and s	pike d	uplicat	e resu	lt.		
1		LC	S LC	SD	/		Spi	ke	LCS	LCSD	F	lec.
Surrogate		Res	ult Re	$\operatorname{sult}$	Units	Dil.	Amo	unt	Rec.	Rec.	$\mathbf{L}$	imit
Trifluorotolue	ne (TFT)	· 1.9	6 2.	03	mg/Kg	1	2.0	)0	98	102	65.9	- 132
4-Bromofluoro	obenzene (4-BFB)	1.8	0 1.	83	mg/Kg	1	2.0	)0	90	92	55.2	- 128.9
Laboratory (	Control Spike (I	LCS-1)										
QC Batch:	58543		Date A	nalyzed	2009-0	)4-14				Analy	zed By:	ME
Prep Batch:	49984		QC Pre	paratio	n: 2009-0	)4-14				Prepa	ared By:	ME
		LO	CS			Sp	ike	Ma	atrix		F	lec.
Param		Res	ult	Units	Dil.	Am	$\operatorname{ount}$	Re	$\operatorname{sult}$	Rec.	$\mathbf{L}_{\mathbf{i}}$	imit
GRO		17	.5 r	ng/Kg	1	20	).0	<0	.482	88	60.5	- 100.1

Report Date: April 18 34 Junction 10 inch	5, 2009	Work Order: 9041428Page Number34 Junction 10 inchLea Co						umber: Lea Cou	1 n	
,		LCSD		$\mathbf{Spik}$	e Matri	ix	R	lec.		
Param		Result	Units I	Dil. Amou	int Resul	lt Rec.	${ m Li}$	imit	$\operatorname{RPD}$	
GRO		19.2	mg/Kg	1 20.0	) <0.48	32 96	$60.5$ $\cdot$	- 100.1	9	
Percent recovery is bas	sed on the s	pike result.	RPD is base	ed on the sp	ike and spil	ke duplicat	e result	t.		
		LCS	LCSD			Spike	LCS	LCSD		R
Surrogate		Resul	t Result	Units	Dil. A	Amount	Rec.	`Rec.	I	j
Trifluorotoluene (TFT	')	2.01	2.04	mg/Kg	1	2.00	100	102	78.8	
4-Bromofluorobenzene	e (4-BFB)	1.77	/1.81	mg/Kg	1	2.00	88	90	66.1	_
QC Batch: 58556 Prep Batch: 49967	т эріке (пс		Date Analy QC Prepara	zed: 2009 ation: 2009	)-04-14 )-04-14			Ana Prep	lyzed B pared By	y: 7:
_		LCS	5		Spike	e Ma	ıtrix	_		R
Param		Resu	lt Unit	s Dil.	Amou	nt Re	sult	Rec.	1	j.
Param		$\begin{array}{c} \mathrm{LCSD} \\ \mathrm{Result} \end{array}$	Units I	Spik Dil. Amou	e Matri int Resul	x It Rec.	R Li	lec. mit	RPD	
DRO		203	mg/Kg	1 250	6.18	79	57.4 -	- 133.4	5	
Percent recovery is bas	sed on the s	pike result.	RPD is base	ed on the sp	ike and spil	ke duplicat	e result	- J•		
	LCS	LCSD			Spike	LC	$\mathbf{S}$	LCSD		R
Surrogate	Result	Result	Units	Dil.	Amour	nt Red	с.	Rec.	I	j
n-Triacontane	90.7	90.2	mg/K	g <u>1</u>	100	91		90	48.5	
Matrix Spike (MS- QC Batch: 58542 Prep Batch: 49984	1) Spiked	Sample: 19	92966 Date Analy QC Prepara	zed: 2009 ation: 2009	-04-14 -04-14			Anal Prep	yzed By ared By	7: 7:
Dorom		MS	+ TI:+-	1:1	Spike	. Mat	trix	Pag	T	K
LAGAU		nesul 1 00	$\frac{1}{ma/V}$	 	2 00	$\frac{1}{200}$	0100	05	506	1
Bonzono			1 / I / I / N	× I	2.00	くいい	0100	30	J.O.U	, ,
Benzene Toluono		1.90	$m_{g}/V$	6 - 1	2.00	<u>~0 0</u>	0100	90	64 9	,
Benzene Toluene Ethylbenzene		1.90 1.91	mg/K mg/K	g 1 g 1	2.00	<0.0	0100	96 08	64.2 61.6	;
Benzene Toluene Ethylbenzene Xylene		1.90 1.91 1.95 5 71	mg/K mg/K mg/K	g 1 g 1 g 1	2.00 2.00 6.00	<0.0 <0.0	0100 0110 0360	96 98 05	64.2 61.6	; . ; .

Report Date: April 15, 2009 34 Junction 10 inch			Work C 34 Jur	Order: 9041 action 10 in	428 ch			Page Nu L	umber: .ea Cour	14 of 16 nty, NM
matrix spikes continued	${\mathrm{MSD}}$	Units	Dil.	Spike Amount	Matri Resul	x t Rec.	R	ec. mit	RPD	RPD Limit
	MSD			Spike	Matri	x	R	ec.		RPD
Param	Result	Units	Dil.	Amount	Resul	t Rec.	Li	mit	RPD	Limit
Benzene	1.90	mg/Kg	: 1	2.00	< 0.001	.00 95	58.6 -	165.2	0	20
Toluene	1.94	mg/Kg	1	2.00	< 0.001	.00 97	64.2 -	153.8	2	20
Ethylbenzene	2.03	mg/Kg	1	2.00	< 0.001	10 102	61.6 -	159.4	4	20
Xylene	5.97	mg/Kg	; 1	6.00	< 0.003	<b>6</b> 0 100	64.4 -	155.3	4	20
Percent recovery is based on the	spike result	. RPD i	s based	on the spik	e and spi	ke duplica	te result.			
	Ν	ſS	MSD			Spike	MS	MSI	)	Bec.
Surrogate.	Re	sult I	Result	Units	Dil.	Amount	Rec.	Rec	. ]	Limit
Trifluorotoluene (TFT)	1.	92	1.96	mg/Kg	1	2	96	98	76	- 127.9
4-Bromofluorobenzene (4-BFB)	1.	56	1.53	mg/Kg	1,	2	78	76	72	- 127.8
Prep Batch: 49984	Μ	QC Pi	reparatio	on: 2009-0	4-14 Spike	a M	atrix	Prepa	ared By	: ME
Param	Res	sult	Units	Dil.	Amou	nt Re	esult	Rec.	I.	imit
GRO	34	.7	mg/Kg	1	20.0	<(	).482	174	12.8	- 175.2
Percent recovery is based on the	spike result	. RPD i	s based	on the spike	e and spi	ke duplica	te result.			
	MGD			Spile	Motr	- 1	B			נופק
Param	Result	Units	Dil	Amount	Resu	lt Rec	Lir	nit	RPD	Limit
GRO	29.2	mg/K	g 1	20.0	<0.48	$\frac{10}{32}$ 146	12.8 -	$\frac{110}{175.2}$	17	20
Percent recovery is based on the	spike result	t. RPD i	s based	on the spik	e and spi	ke duplica	te result.	•		
·	M	S	MSD			Spike	MS	MSD	1	Rec.
Surrogate	Res	ult R	lesult	Units	Dil.	Amount	Rec.	Rec.	I	imit
Trifluorotoluene (TFT)	2.1	15	2.16	mg/Kg	1 '	2	108	108	60.8	- 132.1
4-Bromofluorobenzene (4-BFB)	1.	55	1.58	mg/Kg	1	2	78	79	31.3	- 161.7
Matrix Spike (MS-1) Spike	d Sample:	192923								
QC Batch: 58556 Prep Batch: 49967		Date . QC P	Analyzeo reparatio	l: 2009-0 on: 2009-0	)4-14 )4-14			Anal Prep	yzed By ared By	7: LD 7: LD

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continued ...

Report Date: April 34 Junction 10 inch	15, 2009	Work Order: 9041428 34 Junction 10 inch					Page N	lumber: Lea Cou	15 of 16 nty, NM	
matrix spikes contin	ued					<b>a</b>				5
Param		MS Resu	i lt U	Inits	Dil.	Spike Amount	Matri Resul	t Rec.	I	Rec. Limit
<b>D</b>		MS	1. <del>.</del>	<b>.</b>	D:1	Spike	Matri	x	]	Rec.
Param		Resu		nits	1)1l.	Amount	Resu	$\frac{1}{2}$ Rec.	<u></u>	Jmit
DRU		303		g/ng	1	200	149.0	2 01	30.2	- 107.1
Percent recovery is I	based on the	spike result.	RPD is t	based of	n the spike a	and spike d	uplicate 1	result.		
		MSD			Spike	Matrix		Rec.		$\operatorname{RPD}$
Param		Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
DRO		360	mg/Kg	1	250	149.62	84	35.2 - 167.1	2	20
Percent recovery is l	pased on the	spike result.	RPD is b	based o	n the spike a	and spike d	uplicate 1	esult.		
	MS	MSD				Snike	MS	MSD	1	Rec.
Surrogate	Result	Result	: Ui	nits	Dil.	Amount	Rec.	Rec.	I	Limit
n-Triacontane	126	135	mg	/Kg	1	100	126	135	34.5	- 178.4
Standard (CCV-2 QC Batch: 58542	?)		Date An	alyzed:	2009-04-14	4		Ana	lyzed By	r: ME
			$\operatorname{CCVs}$	1	CCVs	CCVs	3	Percent		
			True		Found	Percer	ıt	Recovery	•	Date
Param	Flag	Units	Conc.		Conc.	Recove	ry	Limits	Ar	nalyzed
Benzene		mg/Kg	0.100		0.0987	99		80 - 120	200	9-04-14
Toluene		mg/Kg	0.100		0.0992	99		80 - 120	200	)9-04-14
Ethylbenzene		mg/Kg	0.100		0.100	100		80 - 120	200	19-04-14
Xylene	•	mg/Kg	0.300		0.298	99		80 - 120	200	19-04-14
Standard (CCV-3	;)									
QC Batch: 58542			Date An	alyzed:	2009-04-14	4		Ana	lyzed By	: ME
			CCVs		CCVs	CCVs	· ·	Percent		
			True		Found	Percer	ıt	Recovery		Date
Param	Flag	Units	Conc.		Conc.	Recove	ry	Limits	Ar	nalyzed
Benzene		mg/Kg	0.100		0.0955	96		80 - 120	200	)9-04-14
Toluene		mg/Kg	0.100		0.0961	96		80 - 120	200	)9-04-14
Ethylbenzene		mg/Kg	0.100		0.0946	95		80 - 120	200	)9-04-14
Xylene		mg/Kg	0.300		0.282	94		80 - 120	200	19-04-14

## Standard (CCV-2)

QC Batch: 58543

Date Analyzed: 2009-04-14

Analyzed By: ME

,

Report Dat 34 Junction	e: April 15, 2 n 10 inch	2009	Work Order: 9041428 34 Junction 10 inch			Page Number: 16 of 16 Lea County, NM		
Param GRO	Flag	Units mg/Kg	CCVs True Conc. 1.00	CCVs Found Conc. 1.20	CCVs Percent Recovery 120	Percent Recovery Limits 80 - 120	Date Analyzed 2009-04-14	
Standard	$(\mathbf{CCV} 2)$			***************************************				
QC Batch:	58543		Date Ana	lyzed: 2009-04	4-14	Anal	yzed By: ME	
Param	Flag	Units	CCVs True Conc	CCVs Found Conc	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	
GRO	1 1005	mg/Kg	1.00	0.978	98	80 - 120	2009-04-14	
<b>Standard</b> QC Batch:	( <b>CCV-3</b> ) 58556		Date Ana	alyzed: 2009-0	4-14	Anal	yzed By: LD	
Param DRO	Flag	Units mg/Kg	CCVs True Conc. 250	CCVs Found Conc. 218	CCVs Percent Recovery 87	Percent Recovery Limits 80 - 120	Date Analyzed 2009-04-14	
Standard	(CCV-4)							
QC Batch:	58556		Date Ana	alyzed: 2009-0	4-14	Anal	yzed By: LD	
Param	Flag	Units mg/Kg	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery 93	Percent Recovery Limits 80 - 120	Date Analyzed	
D100		111 <u>6</u> / <b>11</b> <u>6</u>	200	202	<i>2</i> 0	00 - 120	4003-04-14	

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			LAB Order I	10 # <u>904</u>	1428	Page	of
TraceAnaly email: lab@tracear	<b>YSIS</b> , nalysis.com	Inc.	6701 Aberdeen Avenue, S Lubbock, Texas 7942 Tel (806) 794-1296 Fax (806) 794-1296 1 (800) 378-1296	Suite 9 5002 Ba 24 Midia Tel ( Fax	Isin Street, Suite A1 200 East nd, Texas 79703 El Pa (432) 689-6301 Tel (432) 689-6313 Fax 1 (	Sunset Rd., Suite E 8808 Cam so, Texas 79922 Ft. (915) 585-3443 (915) 585-4944 888) 588-3443	p Bowie Blvd. West, Suite 180 . Worth, Texas 76116 Tel (817) 201-5260 Fax (817) 560-4336
Company Name:	· · · · ·	Pho	ne #: (127-670-77)	ی ک		ANALYSIS REQUEST	·····
Address: (Street, City, Zip)		Fax		· · · · · ·	- (Circle	or Specify Metho	d No.)
Contact Person: Kon Rounsaville		E-m	all: & rrounsauiller	@ Nork-fraing.c	35) 35) Hg		andard
(If different from above) Houc				v	624 624 19 60 b Se		u sta
Project #:		Proj	ect Name: 34 Junction	10"	008 / 005 /	(625	ut fro
Project Location (including state):		Sam	ipler Signature		2 / 8260 7 X X 0 Y X X 0 Y X X 0 Y X X 0 Y X X 0 Y X X 0 Y X X 0 Y X X 0 Y X X 0 Y X X 0 Y X X 0 Y X X 0 Y X X X 0 Y X X X 0 Y X X X 0 Y X X X 0 Y X X X 0 Y X X X 0 Y X X X 0 Y X X 0 Y X X X 0 Y X X X 0 Y X X X 0 Y X X X 0 Y X X X 0 Y X X X 0 Y X X X X	270C /	differe
	ERS 10unt	MATRIX	PRESERVATIVE METHOD	SAMPLING	118/602 17X1000 1625 1625 188( 1888( 1888( 1888) 1888( 1898)	Volaure: 8260B / 1. Vol. 8 / 608 / 6	Time if
LAB# FIELD CODE (LAB:USE) (ONLY)	# CONTAIN	WATER SOIL AIR SLUDGE	HCI HNO3 H <sub>3</sub> SO4 NaOH ICE NONE	DATE TIME	MTBE 802 BTEX 80211 TPH 418.1 / TPH 8015 G PAH 8270C / Total Metals Ag TCLP Metals	TCLP Pestic TCLP Pestic RCI GC/MS Vol. GC/MS Sem PCB's 8082 Pesticides 81 Pesticides 81 Moisture Col	Tum Around Hold
193027 N Floor -7	1 49	2 χ		4/14/0 900			
028 SFloor -Z_	1 1			414/05 930	KK		
029 SP-14	1	X		Virela 1000	KK		
000 5P-10		X		e/14/09 1020	K X		
03 5P-1C		X		41111 1035	XX		
032 SP- 1D	14	X		4/11/09 1055	K X I		
Relinquished by: Company: Date:	Time:	Received by:	Company: Date: Trace 4/14/10	Time: Ter	mp°c: LAB USE: ONLY	Straight fre	m field
Relinquished by: Company: Date:	Time:	Received by:	Company: Date:	Time: Ter	mp°c: mtact Q_/N_::	□ Dry Weight Basis Requ	ured
Relinquished by: Company: Date:	Time:	Received by:	Company: Date:	Time: Ter	mp°c:	TRRP Report Required     Check If Special Report     Limits Are Needed	1 rting
Submittal of samples constitutes agreement to Te	rms and Co	nditions listed on rev	verse side of C. O. C.	, , , , , , , , , , , , , , , , , , ,	Carrier # Carry	-in	

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**APPENDIX B** 

#### 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

		OPERATOR	Initial Report	Final Report
Name of Company	Plains Pipeline, LP	Contact Jason Henry		
Address	2530 Hwy 214 - Denver City, Tx 79323	Telephone No. (575) 441-1099		
Facility Name	34 Junction 10-inch	Facility Type Pipeline		

#### Mineral Owner Surface Owner Deck Estate Lease No. 31.025. 06232 LOCATION OF RELEASE Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County L, 21 20\$ 37E Lea

Latitude N 32.55546° Longitude W 103.26123°

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 50 bbls	Volume Recovered 30 bbls
Source of Release 10" Steel Pipeline	Date and Hour of Occurrence	Date and Hour of Discovery
	03/03/2009	03/03/2009 08:00
Was Immediate Notice Given?	If YES, To Whom?	
Yes 🗌 No 🗌 Not Required	Larry Johnson	
By Whom? Jason Henry	Date and Hour 03/04/2009 @ 08	:10
Was a Watercourse Reached?	If YES, Volume Impacting the Wate	ercourse.
🔲 Yes 🖾 No		
	Pr	
If a Watercourse was Impacted, Describe Fully.*	l X fan	
	M/	NR 2 3 2009
	HO	BBSOCO
Describe Cause of Problem and Remedial Action Taken.*		
·		
3rd party damage to 34 Junction 10-inch pipeline caused a release of crude pressure of the pipeline is 110 psi. The depth of the pipeline at the release	oil Throughput for the subject line point is approximately 1' bgs. The H	is 3,700 bbls/day and the operating 2S concentration in the crude is less than
10 ppm and the gravity of the crude is 40.		
Describe Area Affected and Cleanup Action Taken.* .	ann an Anna an Anna an Anna an Anna an Anna an Anna	۳۰۰ (۱۹۹۹) - ۲۰۰ (۱۹۹۹) - ۲۰۰ (۱۹۹۹) - ۲۰۰ (۱۹۹۹) - ۲۰۰ (۱۹۹۹) - ۲۰۰ (۱۹۹۹) - ۲۰۰ (۱۹۹۹) - ۲۰۰ (۱۹۹۹) - ۲۰۰ (۱

The released crude resulted in a surface stain that measured approximately 20' x 60'. The impacted area will be remediated per applicable guidelines.

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

Signatures Data Diante	OIL CONSER	VATION DIVISION			
Printed Name: Jason Henry	Approved by District Supervisor:				
Title: Remediation Coordinator	Approval Date:	Expiration Date:			
E-mail Address: jhenry@paalp.com Date: 03/23/2009 Phone: (575) 441-1099	Conditions of Approval:	Attached []			

Attach Additional Sheets If Necessary

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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

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

#### **Release Notification and Corrective Action** 1RP-2135 **OPERATOR** Initial Report **X** Final Report Name of Company Contact **Jason Henry Plains Pipeline, LP** Address 2530 Hwy 214 - Denver City, Tx 79323 Telephone No. (575) 441-1099 **Facility Name** 34 Junction 10-inch Facility Type **Pipeline** Surface Owner Deck Estate Mineral Owner Lease No. LOCATION OF RELEASE East/West Line North/South Line Feet from the Feet from the Unit Letter Section Township County Range 21 20S 37E Lea L Latitude N 32.55546° Longitude W 103.26123° NATURE OF RELEASE Type of Release Volume of Release 50 bbls **Crude Oil** Volume Recovered 30 bbls Source of Release **10" Steel Pipeline** Date and Hour of Occurrence Date and Hour of Discovery 03/03/2009 03/03/2009 08:00 If YES, To Whom? Was Immediate Notice Given? Yes 🗌 No 🗌 Not Required Larry Johnson By Whom? Jason Henry Date and Hour 03/04/2009 @ 08:10 Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. Yes No If a Watercourse was Impacted, Describe Fully.\* RECEIVED NOV 18 2009 HOBBSOCD Describe Cause of Problem and Remedial Action Taken.\* 3rd party damage to 34 Junction 10-inch pipeline caused a release of crude oil.. Throughput for the subject line is 3,700 bbls/day and the operating pressure of the pipeline is 110 psi. The depth of the pipeline at the release point is approximately 1' bgs. The H2S concentration in the crude is less than 10 ppm and the gravity of the crude is 40. Describe Area Affected and Cleanup Action Taken.\* . Please see the attached Nova Safety and Environmental Soil Closure Request for details of remedial activities conducted at the site. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION ason Signature: Approved by District Supervisor Printed Name: Jason Henry Title: Remediation Coordinator Approval Date: 11.18.09 **Expiration Date:** E-mail Address: jhenry@paalp.com Conditions of Approval: Attached 🗌 2009 Phone: (575) 441-1099 Date: \* Attach Additional Sheets If Necessary



