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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

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	Mineral Owner	Lease No.
Deck Estate		

LOCATION OF RELEASE

API # 30-025-06232

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	**21**	**20S**	**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 **03/03/2009**	Date and Hour of Discovery **03/03/2009 08:00**
Was Immediate Notice Given? ☒ **Yes** ☐ No ☐ Not Required	If YES, To Whom? **Larry Johnson**	
By Whom? Jason Henry	Date and Hour **03/04/2009 @ 08:10**	
Was a Watercourse Reached? ☐ Yes ☒ **No**	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

RECEIVED
NOV 18 2009
HOBBSOCD

WATERS@25'

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.

Signature: Jason Henry	OIL CONSERVATION DIVISION
Printed Name: Jason Henry	Approved by District Supervisor: ENVIRONMENTAL ENGINEER
Title: Remediation Coordinator	Approval Date: 11-18-09 Expiration Date: —
E-mail Address: jhenry@paalp.com	Conditions of Approval: ~~Attached~~ ☐ IRP# 2135
Date: 11/18/2009 Phone: (575) 441-1099	

* Attach Additional Sheets If Necessary

fGRL1001051249

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

NOVA
safety and environmental

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NOV 18 2009
HOBBSOCD

Prepared by:

NOVA Safety and Environmental
2057 Commerce
Midland, Texas 79703

August 2009

Ronald K. Rounsaville
Senior Project Manager

Brittan K. Byerly, P.G.
President

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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 ¼ SW ¼, 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 near-surface 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

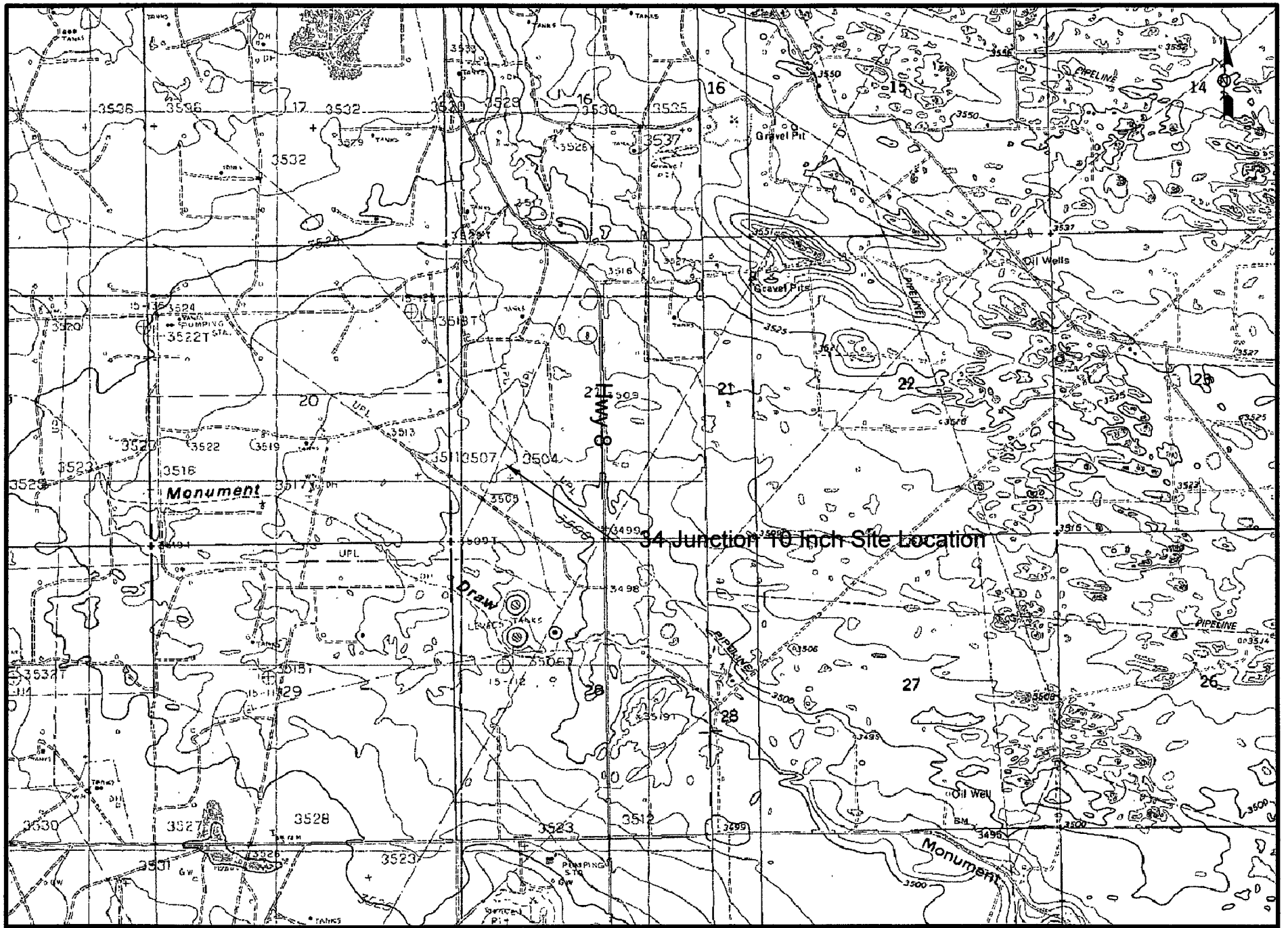
Copy 1:
Larry Johnson
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division District 1
1625 French Drive
Hobbs, NM 88240

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



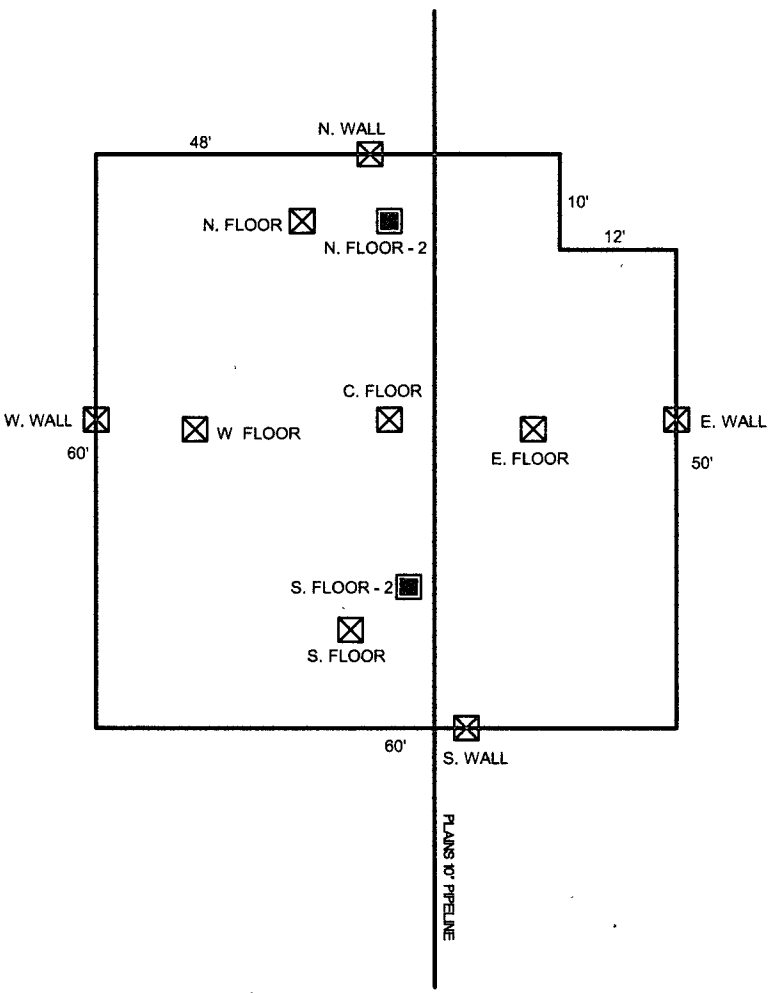
Lat. N32° 33' 18.8"N Long. W103° 15' 39.7"W

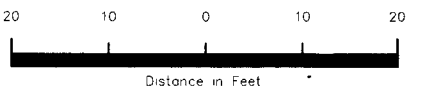
NMOCD Reference # 1RP-2135

Figure 1
Site Location Map
Plains Marketing, L.P.
34 Junction 10 Inch
Lea County, NM

NOVA Safety and Environmental

NOVA safety and environmental	Scale NTS	Drawn By SAT	Prepared By RKR
	August 20, 2009	NW1/4 SW1/4 Sec 21 T20S R37E	





Legend:

- Soil Sample Locations
- Resample Locations

Figure 2
Soil Sample Locations &
Excavation Area Map
34 Junction 10-Inch
Plains Marketing, L.P.
Lea County, NM

NOVA safety and environmental

2057 Commerce Drive
Midland, Texas 79703
432 520 7720
www.novasafetyandenvironmental.com

Scale: 1" = 20'	Drawn By: SAT	Project Manager: RKR
August 27, 2009		

TABLES

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 (C_6-C_{12}) mg/Kg	DRO ($<C_{12}$-C_{35}) mg/Kg	Total TPH (mg/Kg)
NMOCD REGULATORY STANDARD				**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'	In-Situ	<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
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

APPENDICES

APPENDIX A

TRACEANALYSIS, INC.
6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
5200 East Sunset Road, Suite F El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
6015 Harris Parkway, Suite 110 Ft Worth, Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

Certifications

WBENC: 237019 **HUB:** 1752439743100-86536 **DBE:** VN 20657
NCTRCA WFWB38444Y0909

NELAP Certifications

Lubbock: T104704219-08-TX LELAP-02003 Kansas E-10317 **El Paso:** T104704221-08-TX LELAP-02002 **Midland:** T104704392-08-TX

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, NM
Project Name: 34 Junction 10 inch
Project Number: 34 Junction 10 inch

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

Sample	Description	Matrix	Date Taken	Time Taken	Date 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	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.

Dr. Blair Leftwich, Director

Standard Flags

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 2009-03-25 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.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis 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

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		**0.0963**	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		**0.236**	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	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:	Midland				
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

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		76.3	mg/Kg	1	100	76	13.2 - 219.3

Sample: 191173 - N Wall

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	58015	Date Analyzed:	2009-03-26	Analyzed By:	ME
Prep Batch:	49553	Sample Preparation:	2009-03-26	Prepared By:	ME

continued ...

sample 191173 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL

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
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:	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

Parameter	Flag	RL Result	Units	Dilution	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		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.970	mg/Kg	1	1.00	97	49 - 129.7
4-Bromofluorobenzene (4-BFB)		0.766	mg/Kg	1	1.00	77	45.2 - 144.3

Sample: 191174 - S Wall

Laboratory:	Midland				
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

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		69.6	mg/Kg	1	100	70	13.2 - 219.3

Sample: 191174 - S Wall

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	58015	Date Analyzed:	2009-03-26	Analyzed By:	ME
Prep Batch:	49553	Sample Preparation:	2009-03-26	Prepared 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
Trifluorotoluene (TFT)		1.01	mg/Kg	1	1.00	101	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		0.890	mg/Kg	1	1.00	89	52 - 117

Sample: 191175 - E 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

Parameter	Flag	RL Result	Units	Dilution	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		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.03	mg/Kg	1	1.00	103	49 - 129.7
4-Bromofluorobenzene (4-BFB)		0.749	mg/Kg	1	1.00	75	45.2 - 144.3

Sample: 191175 - E Wall

Laboratory:	Midland				
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

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		78.4	mg/Kg	1	100	78	13.2 - 219.3

Sample: 191175 - E Wall

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	58015	Date Analyzed:	2009-03-26	Analyzed By:	ME
Prep Batch:	49553	Sample Preparation:	2009-03-26	Prepared 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
Trifluorotoluene (TFT)		1.09	mg/Kg	1	1.00	109	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		0.879	mg/Kg	1	1.00	88	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:	ME

Parameter	Flag	RL Result	Units	Dilution	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

Surrogate	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 Wall

Laboratory:	Midland				
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

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	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:	S 8015B	Prep Method:	S 5035
QC Batch:	58015	Date Analyzed:	2009-03-26	Analyzed By:	ME
Prep Batch:	49553	Sample Preparation:	2009-03-26	Prepared 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
Trifluorotoluene (TFT)		1.09	mg/Kg	1	1.00	109	68.5 - 119.4
4-Bromofluorobenzene (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:	ME
Prep Batch:	49553	Sample Preparation:	2009-03-26	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	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		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		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:	Midland				
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

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**420**	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		106	mg/Kg	1	100	106	13.2 - 219.3

Sample: 191177 - N Floor

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	58015	Date Analyzed:	2009-03-26	Analyzed By:	ME
Prep Batch:	49553	Sample Preparation:	2009-03-26	Prepared 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
Trifluorotoluene (TFT)		1.07	mg/Kg	1	1.00	107	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		0.904	mg/Kg	1	1.00	90	52 - 117

Sample: 191178 - S Floor

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

Parameter	Flag	Result	RL	Units	Dilution	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		**0.196**		mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.992	mg/Kg	1	1.00	99	49 - 129.7
4-Bromofluorobenzene (4-BFB)		0.756	mg/Kg	1	1.00	76	45.2 - 144.3

Sample: 191178 - S Floor

Laboratory:	Midland				
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

Parameter	Flag	Result	RL	Units	Dilution	RL
DRO		**374**		mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		100	mg/Kg	1	100	100	13.2 - 219.3

Sample: 191178 - S Floor

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	58015	Date Analyzed:	2009-03-26	Analyzed By:	ME
Prep Batch:	49553	Sample Preparation:	2009-03-26	Prepared By:	ME

Parameter	Flag	Result	RL	Units	Dilution	RL
GRO		<1.00		mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.08	mg/Kg	1	1.00	108	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		0.881	mg/Kg	1	1.00	88	52 - 117

Sample: 191179 - E Floor

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

Parameter	Flag	RL Result	Units	Dilution	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		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.01	mg/Kg	1	1.00	101	49 - 129.7
4-Bromofluorobenzene (4-BFB)		0.771	mg/Kg	1	1.00	77	45.2 - 144.3

Sample: 191179 - E Floor

Laboratory:	Midland				
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

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		74.7	mg/Kg	1	100	75	13.2 - 219.3

Sample: 191179 - E Floor

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	58015	Date Analyzed:	2009-03-26	Analyzed By:	ME
Prep Batch:	49553	Sample Preparation:	2009-03-26	Prepared 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
Trifluorotoluene (TFT)		1.09	mg/Kg	1	1.00	109	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		0.899	mg/Kg	1	1.00	90	52 - 117

Sample: 191180 - W Floor

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

Parameter	Flag	RL Result	Units	Dilution	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		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.926	mg/Kg	1	1.00	93	49 - 129.7
4-Bromofluorobenzene (4-BFB)		0.748	mg/Kg	1	1.00	75	45.2 - 144.3

Sample: 191180 - W Floor

Laboratory:	Midland				
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

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		81.7	mg/Kg	1	100	82	13.2 - 219.3

Sample: 191180 - W Floor

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	58015	Date Analyzed:	2009-03-26	Analyzed By:	ME
Prep Batch:	49553	Sample Preparation:	2009-03-26	Prepared 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
Trifluorotoluene (TFT)		1.10	mg/Kg	1	1.00	110	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		0.892	mg/Kg	1	1.00	89	52 - 117

Sample: 191181 - C Floor

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

Parameter	Flag	RL Result	Units	Dilution	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		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.938	mg/Kg	1	1.00	94	49 - 129.7
4-Bromofluorobenzene (4-BFB)		0.754	mg/Kg	1	1.00	75	45.2 - 144.3

Sample: 191181 - C Floor

Laboratory:	Midland				
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

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		71.0	mg/Kg	1	100	71	13.2 - 219.3

Sample: 191181 - C Floor

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	58015	Date Analyzed:	2009-03-26	Analyzed By:	ME
Prep Batch:	49553	Sample Preparation:	2009-03-26	Prepared 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
Trifluorotoluene (TFT)		1.08	mg/Kg	1	1.00	108	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		0.875	mg/Kg	1	1.00	88	52 - 117

Method Blank (1) QC Batch: 58013

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

Parameter	Flag	MDL Result	Units	RL
DRO		<46.2	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		33.7	mg/Kg	1	100	34	13 - 178.5

Method Blank (1) QC Batch: 58014

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

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00100	mg/Kg	0.01
Toluene		<0.00100	mg/Kg	0.01
Ethylbenzene		<0.00110	mg/Kg	0.01
Xylene		<0.00360	mg/Kg	0.01

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.03	mg/Kg	1	1.00	103	65.6 - 130.6
4-Bromofluorobenzene (4-BFB)		0.829	mg/Kg	1	1.00	83	51.9 - 128.1

Method Blank (1) QC Batch: 58015

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

Parameter	Flag	MDL Result	Units	RL
GRO		<0.482	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.945	mg/Kg	1	1.00	94	75.8 - 98.5
4-Bromofluorobenzene (4-BFB)		0.975	mg/Kg	1	1.00	98	56.5 - 109.5

Laboratory Control Spike (LCS-1)

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

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	281	mg/Kg	1	250	<46.2	112	57.4 - 133.4

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	293	mg/Kg	1	250	<46.2	117	57.4 - 133.4	4	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD 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

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	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.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	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.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. 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)

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

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	7.01	mg/Kg	1	10.0	<0.482	70	60.5 - 100.1

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	7.50	mg/Kg	1	10.0	<0.482	75	60.5 - 100.1	7	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. 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

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. 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.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD 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.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. 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

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. 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.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	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

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD 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

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. 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.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD 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.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. 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 Analyzed: 2009-03-26 | Analyzed By: LD

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	254	102	85 - 115	2009-03-26

Standard (CCV-2)

QC Batch: 58013 | Date Analyzed: 2009-03-26 | Analyzed By: LD

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	276	110	85 - 115	2009-03-26

Standard (CCV-3)

QC Batch: 58013 Date Analyzed: 2009-03-26 Analyzed 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 (CCV-2)

QC Batch: 58014 Date Analyzed: 2009-03-26 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.110	110	85 - 115	2009-03-26
Toluene		mg/Kg	0.100	0.108	108	85 - 115	2009-03-26
Ethylbenzene		mg/Kg	0.100	0.102	102	85 - 115	2009-03-26
Xylene		mg/Kg	0.300	0.304	101	85 - 115	2009-03-26

Standard (CCV-3)

QC Batch: 58014 Date Analyzed: 2009-03-26 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.109	109	85 - 115	2009-03-26
Toluene		mg/Kg	0.100	0.105	105	85 - 115	2009-03-26
Ethylbenzene		mg/Kg	0.100	0.0991	99	85 - 115	2009-03-26
Xylene		mg/Kg	0.300	0.295	98	85 - 115	2009-03-26

Standard (CCV-1)

QC Batch: 58015 Date Analyzed: 2009-03-26 Analyzed By: ME

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

Standard (CCV-2)

QC Batch: 58015 Date Analyzed: 2009-03-26 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.901	90	85 - 115	2009-03-26

LAB Order ID # 903254 1 Page 1 of 1

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9, Lubbock, Texas 79424, Tel (806) 794-1296, Fax (806) 794-1298, 1 (800) 378-1296
5002 Basin Street, Suite A1, Midland, Texas 79703, Tel (432) 689-6301, Fax (432) 689-6313
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8808 Camp Bowie Blvd. West, Suite 180, Ft. Worth, Texas 76116, Tel (817) 201-5260, Fax (817) 560-4336

Company Name: Nova | Phone #:

Address: (Street, City, Zip) | Fax #:

Contact Person: Ron Rounsaville | E-mail: RRounsaville@Nova-Training.CC

Invoice to: (If different from above) Plains | 34 Junction to LEA Station

Project #: SRS # 2002-10286 | Project Name:

Project Location (including state): LEA County N.M. | Sampler Signature:

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C / 625	PCB's 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content	Turn Around Time if different from standard	Hold
91173	N Wall	1	4oz		X							X		3/25/09	1100		X		X															
174	S Wall	1			X							X			1110		X		X															
175	E Wall	1			X							X			1125		X		X															
176	W Wall	1			X							X			1130		X		X															
177	N Floor	1			X							X			1200		X		X															
178	S Floor	1			X							X			1220		X		X															
179	E Floor	1			X							X			1230		X		X															
180	W Floor	1			X							X			1240		X		X															
181	C Floor	1			X							X			1255		X		X															

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°c:
Mike Heller	Nova	3-25-09	400		Trace	3-25-09	16:00	13.5°C
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°c:
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°c:

LAB USE ONLY
Intact Y / N
Headspace Y / N / NA
1.3.5
Log-in-Review

REMARKS: All tests Midland

- ☐ Dry Weight Basis Required
- ☐ TRRP Report Required
- ☐ Check If Special Reporting Limits Are Needed

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

Carrier # Carry-in from field.

ORIGINAL COPY

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
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6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

Certifications

WBENC: 237019 **HUB:** 1752439743100-86536 **DBE:** VN 20657
NCTRCA WFWB38444Y0909

NELAP Certifications

Lubbock: T104704219-08-TX LELAP-02003 Kansas E-10317 **El Paso:** T104704221-08-TX LELAP-02002 **Midland:** T104704392-08-TX

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, NM
Project Name: 34 Junction 10 inch
Project Number: 34 Junction 10 inch

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

Sample	Description	Matrix	Date Taken	Time Taken	Date 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
193030	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.

Dr. Blair Leftwich, Director

Standard Flags

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.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis 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

Parameter	Flag	RL Result	Units	Dilution	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		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	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:	Midland				
Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	58556	Date Analyzed:	2009-04-14	Analyzed By:	LD
Prep Batch:	49967	Sample Preparation:	2009-04-14	Prepared By:	LD

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		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 ...

sample 193027 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**1.90**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.95	mg/Kg	1	2.00	98	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		1.47	mg/Kg	1	2.00	74	52 - 117

Sample: 193028 - S 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

Parameter	Flag	RL Result	Units	Dilution	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		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.00	mg/Kg	1	2.00	100	49 - 129.7
4-Bromofluorobenzene (4-BFB)		1.52	mg/Kg	1	2.00	76	45.2 - 144.3

Sample: 193028 - S Floor-2

Laboratory:	Midland				
Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	58556	Date Analyzed:	2009-04-14	Analyzed By:	LD
Prep Batch:	49967	Sample Preparation:	2009-04-14	Prepared By:	LD

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		139	mg/Kg	1	100	139	13.2 - 219.3

Sample: 193028 - S 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

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
Trifluorotoluene (TFT)		2.05	mg/Kg	1	2.00	102	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		1.49	mg/Kg	1	2.00	74	52 - 117

Sample: 193029 - SP-1A

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

Parameter	Flag	RL Result	Units	Dilution	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		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.91	mg/Kg	1	2.00	96	49 - 129.7
4-Bromofluorobenzene (4-BFB)		1.50	mg/Kg	1	2.00	75	45.2 - 144.3

Sample: 193029 - SP-1A

Laboratory:	Midland				
Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	58556	Date Analyzed:	2009-04-14	Analyzed By:	LD
Prep Batch:	49967	Sample Preparation:	2009-04-14	Prepared By:	LD

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**101**	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		175	mg/Kg	1	100	175	13.2 - 219.3

Sample: 193029 - SP-1A

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

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
Trifluorotoluene (TFT)		2.06	mg/Kg	1	2.00	103	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		1.46	mg/Kg	1	2.00	73	52 - 117

Sample: 193030 - SP-1B

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

Parameter	Flag	RL Result	Units	Dilution	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		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.00	mg/Kg	1	2.00	100	49 - 129.7
4-Bromofluorobenzene (4-BFB)		1.48	mg/Kg	1	2.00	74	45.2 - 144.3

Sample: 193030 - SP-1B

Laboratory:	Midland				
Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	58556	Date Analyzed:	2009-04-14	Analyzed By:	LD
Prep Batch:	49967	Sample Preparation:	2009-04-14	Prepared By:	LD

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**87.6**	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		135	mg/Kg	1	100	135	13.2 - 219.3

Sample: 193030 - SP-1B

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

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
Trifluorotoluene (TFT)		1.96	mg/Kg	1	2.00	98	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		1.45	mg/Kg	1	2.00	72	52 - 117

Sample: 193031 - SP-1C

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

Parameter	Flag	RL Result	Units	Dilution	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		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.98	mg/Kg	1	2.00	99	49 - 129.7
4-Bromofluorobenzene (4-BFB)		1.50	mg/Kg	1	2.00	75	45.2 - 144.3

Sample: 193031 - SP-1C

Laboratory:	Midland				
Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	58556	Date Analyzed:	2009-04-14	Analyzed By:	LD
Prep Batch:	49967	Sample Preparation:	2009-04-14	Prepared By:	LD

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**113**	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		147	mg/Kg	1	100	147	13.2 - 219.3

Sample: 193031 - SP-1C

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

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
Trifluorotoluene (TFT)		2.09	mg/Kg	1	2.00	104	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		1.48	mg/Kg	1	2.00	74	52 - 117

Sample: 193032 - SP-1D

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

Parameter	Flag	Result	RL	Units	Dilution	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		<0.0100		mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.98	mg/Kg	1	2.00	99	49 - 129.7
4-Bromofluorobenzene (4-BFB)		1.53	mg/Kg	1	2.00	76	45.2 - 144.3

Sample: 193032 - SP-1D

Laboratory:	Midland				
Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	58556	Date Analyzed:	2009-04-14	Analyzed By:	LD
Prep Batch:	49967	Sample Preparation:	2009-04-14	Prepared By:	LD

Parameter	Flag	Result	RL	Units	Dilution	RL
DRO		**84.0**		mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		139	mg/Kg	1	100	139	13.2 - 219.3

Sample: 193032 - SP-1D

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

Parameter	Flag	Result	RL	Units	Dilution	RL
GRO		<1.00		mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		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 Batch: 58542

QC Batch: 58542 Date Analyzed: 2009-04-14 Analyzed By: ME
Prep Batch: 49984 QC Preparation: 2009-04-14 Prepared By: ME

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00100	mg/Kg	0.01
Toluene		<0.00100	mg/Kg	0.01
Ethylbenzene		<0.00110	mg/Kg	0.01
Xylene		<0.00360	mg/Kg	0.01

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		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

Method Blank (1) QC Batch: 58543

QC Batch: 58543 Date Analyzed: 2009-04-14 Analyzed By: ME
Prep Batch: 49984 QC Preparation: 2009-04-14 Prepared By: ME

Parameter	Flag	MDL Result	Units	RL
GRO		<0.482	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.95	mg/Kg	1	2.00	98	71.9 - 115
4-Bromofluorobenzene (4-BFB)		1.69	mg/Kg	1	2.00	84	45.7 - 118.9

Method Blank (1) QC Batch: 58556

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

Parameter	Flag	MDL Result	Units	RL
DRO		6.18	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		101	mg/Kg	1	100	101	13 - 178.5

Laboratory Control Spike (LCS-1)

QC Batch: 58542
Prep Batch: 49984

Date Analyzed: 2009-04-14
QC Preparation: 2009-04-14

Analyzed By: ME
Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.89	mg/Kg	1	2.00	<0.00100	94	72.7 - 129.8
Toluene	1.92	mg/Kg	1	2.00	<0.00100	96	71.6 - 129.6
Ethylbenzene	1.93	mg/Kg	1	2.00	<0.00110	96	70.8 - 129.7
Xylene	5.76	mg/Kg	1	6.00	<0.00360	96	70.9 - 129.4

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	2.02	mg/Kg	1	2.00	<0.00100	101	72.7 - 129.8	7	20
Toluene	2.03	mg/Kg	1	2.00	<0.00100	102	71.6 - 129.6	6	20
Ethylbenzene	2.06	mg/Kg	1	2.00	<0.00110	103	70.8 - 129.7	6	20
Xylene	6.22	mg/Kg	1	6.00	<0.00360	104	70.9 - 129.4	8	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.96	2.03	mg/Kg	1	2.00	98	102	65.9 - 132
4-Bromofluorobenzene (4-BFB)	1.80	1.83	mg/Kg	1	2.00	90	92	55.2 - 128.9

Laboratory Control Spike (LCS-1)

QC Batch: 58543
Prep Batch: 49984

Date Analyzed: 2009-04-14
QC Preparation: 2009-04-14

Analyzed By: ME
Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	17.5	mg/Kg	1	20.0	<0.482	88	60.5 - 100.1

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	19.2	mg/Kg	1	20.0	<0.482	96	60.5 - 100.1	9	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	2.01	2.04	mg/Kg	1	2.00	100	102	78.8 - 104.7
4-Bromofluorobenzene (4-BFB)	1.77	1.81	mg/Kg	1	2.00	88	90	66.1 - 107.3

Laboratory Control Spike (LCS-1)

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

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	213	mg/Kg	1	250	6.18	83	57.4 - 133.4

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	203	mg/Kg	1	250	6.18	79	57.4 - 133.4	5	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	90.7	90.2	mg/Kg	1	100	91	90	48.5 - 146.7

Matrix Spike (MS-1) Spiked Sample: 192966

QC Batch: 58542 | Date Analyzed: 2009-04-14 | Analyzed By: ME
Prep Batch: 49984 | QC Preparation: 2009-04-14 | Prepared By: ME

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.90	mg/Kg	1	2.00	<0.00100	95	58.6 - 165.2
Toluene	1.91	mg/Kg	1	2.00	<0.00100	96	64.2 - 153.8
Ethylbenzene	1.95	mg/Kg	1	2.00	<0.00110	98	61.6 - 159.4
Xylene	5.71	mg/Kg	1	6.00	<0.00360	95	64.4 - 155.3

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

continued ...

matrix spikes continued ...

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	1.90	mg/Kg	1	2.00	<0.00100	95	58.6 - 165.2	0	20
Toluene	1.94	mg/Kg	1	2.00	<0.00100	97	64.2 - 153.8	2	20
Ethylbenzene	2.03	mg/Kg	1	2.00	<0.00110	102	61.6 - 159.4	4	20
Xylene	5.97	mg/Kg	1	6.00	<0.00360	100	64.4 - 155.3	4	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD 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

Matrix Spike (MS-1) Spiked Sample: 192928

QC Batch: 58543 | Date Analyzed: 2009-04-14 | Analyzed By: ME
Prep Batch: 49984 | QC Preparation: 2009-04-14 | Prepared By: ME

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	34.7	mg/Kg	1	20.0	<0.482	174	12.8 - 175.2

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	29.2	mg/Kg	1	20.0	<0.482	146	12.8 - 175.2	17	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	2.15	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) Spiked Sample: 192923

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

continued ...

matrix spikes continued ...

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	353	mg/Kg	1	250	149.62	81	35.2 - 167.1

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	360	mg/Kg	1	250	149.62	84	35.2 - 167.1	2	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	126	135	mg/Kg	1	100	126	135	34.5 - 178.4

Standard (CCV-2)

QC Batch: 58542 Date Analyzed: 2009-04-14 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0987	99	80 - 120	2009-04-14
Toluene		mg/Kg	0.100	0.0992	99	80 - 120	2009-04-14
Ethylbenzene		mg/Kg	0.100	0.100	100	80 - 120	2009-04-14
Xylene		mg/Kg	0.300	0.298	99	80 - 120	2009-04-14

Standard (CCV-3)

QC Batch: 58542 Date Analyzed: 2009-04-14 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0955	96	80 - 120	2009-04-14
Toluene		mg/Kg	0.100	0.0961	96	80 - 120	2009-04-14
Ethylbenzene		mg/Kg	0.100	0.0946	95	80 - 120	2009-04-14
Xylene		mg/Kg	0.300	0.282	94	80 - 120	2009-04-14

Standard (CCV-2)

QC Batch: 58543 Date Analyzed: 2009-04-14 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.20	120	80 - 120	2009-04-14

Standard (CCV-3)

QC Batch: 58543 Date Analyzed: 2009-04-14 Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.978	98	80 - 120	2009-04-14

Standard (CCV-3)

QC Batch: 58556 Date Analyzed: 2009-04-14 Analyzed By: LD

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	218	87	80 - 120	2009-04-14

Standard (CCV-4)

QC Batch: 58556 Date Analyzed: 2009-04-14 Analyzed By: LD

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	232	93	80 - 120	2009-04-14

LAB Order ID # 9041428 Page 1 of 1

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9, Lubbock, Texas 79424, Tel (806) 794-1296, Fax (806) 794-1298, 1 (800) 378-1296
5002 Basin Street, Suite A1, Midland, Texas 79703, Tel (432) 689-6301, Fax (432) 689-6313
200 East Sunset Rd., Suite E, El Paso, Texas 79922, Tel (915) 585-3443, Fax (915) 585-4944, 1 (888) 588-3443
8808 Camp Bowie Blvd. West, Suite 180, Ft. Worth, Texas 76116, Tel (817) 201-5260, Fax (817) 560-4336

Company Name: Nova
Phone #: 432-520-7720
Address: (Street, City, Zip)
Fax #:
Contact Person: Ron Rounsaville
E-mail: rrounsaville@Novatraining.cc
Invoice to: (If different from above) Nova
Project #:
Project Name: 34 Junction 10"
Project Location (including state): Lea County, N.M.
Sampler Signature:

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C / 625	PCB's 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content	Turn Around Time if different from standard	Hold
193021	N Floor -2	1	4oz		X									4/14/09	900		X		X															
023	S Floor -2	1			X									4/14/09	930		X		X															
029	SP-1A	1			X									4/14/09	1000		X		X															
030	SP-1B	1			X									4/14/09	1020		X		X															
031	SP-1C	1			X									4/14/09	1035		X		X															
032	SP-1D	1	4		X									4/14/09	1055		X		X															

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°C:
Mike Holmes	Nova	4/14/09	1115		Trace	4/14/09	1115	
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°C:
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°C:

LAB USE ONLY
Intact Y N
Headspace Y N NA
13.4
Log-In-Review

REMARKS: Straight from field All tests Midland

- [ ] Dry Weight Basis Required
- [ ] TRRP Report Required
- [ ] Check If Special Reporting Limits Are Needed

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

Carrier # Carry-in

ORIGINAL COPY

APPENDIX B

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final 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	Lease No. 30-025-06232

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	21	20S	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 03/03/2009	Date and Hour of Discovery 03/03/2009 08:00
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Larry Johnson	
By Whom? Jason Henry	Date and Hour 03/04/2009 @ 08:10	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

RECEIVED
MAR 23 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.*

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.

Signature: Jason Henry

Printed Name: Jason Henry

Title: Remediation Coordinator

E-mail Address: jhenry@paalp.com

Date: 03/23/2009 Phone: (575) 441-1099

OIL CONSERVATION DIVISION

Approved by District Supervisor:

Approval Date: Expiration Date:

Conditions of Approval: 1RP-2135

Attached ☐

Attach Additional Sheets If Necessary

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

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	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	**21**	**20S**	**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 **03/03/2009**	Date and Hour of Discovery **03/03/2009 08:00**
Was Immediate Notice Given? ☒ **Yes** ☐ No ☐ Not Required	If YES, To Whom? **Larry Johnson**	
By Whom? Jason Henry	Date and Hour **03/04/2009 @ 08:10**	
Was a Watercourse Reached? ☐ Yes ☒ **No**	If YES, Volume Impacting the Watercourse.	

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.

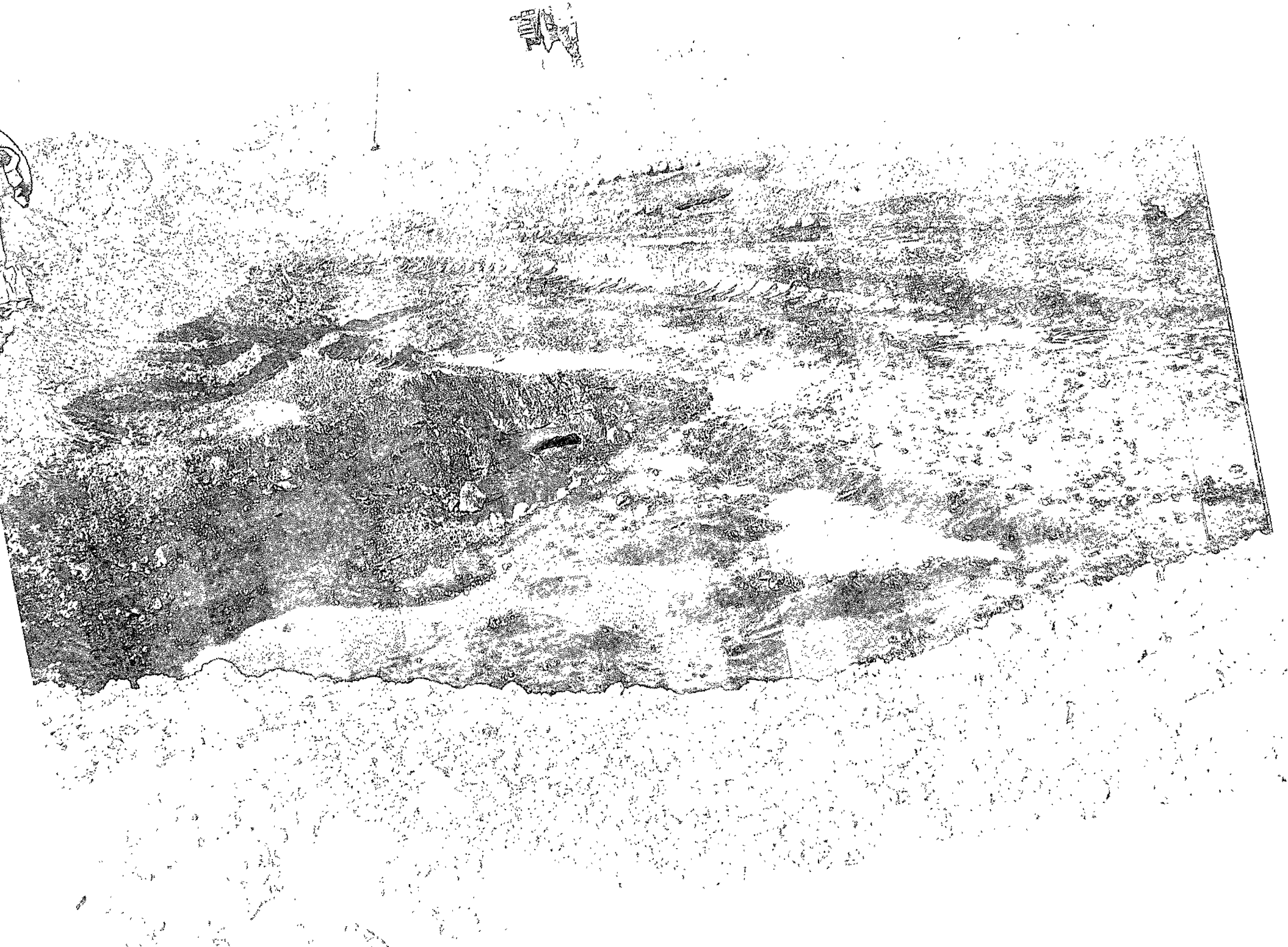
Describe Area Affected and Cleanup Action Taken.* .

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.

Signature: Jason Henry	OIL CONSERVATION DIVISION
Printed Name: Jason Henry	Approved by District Supervisor: ENVIRONMENTAL ENGINEER
Title: Remediation Coordinator	Approval Date: 11-18-09 Expiration Date: —
E-mail Address: jhenry@paalp.com	Conditions of Approval: ~~Attached~~ ☐ IRP# 2135
Date: 11/18/2009 Phone: (575) 441-1099	

* Attach Additional Sheets If Necessary



WARNING
PETROLEUM
PIPELINE