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						
			OPERA:	<b>TOR</b>	Ini	tial Report 🛛 Final Report
Name of Company Plains Pipe			Contact	Daniel Bryan		
Address 3112 W. US Hwy 82, I Facility Name Hugh Station	Lovington, NM 88260 on Receiver		Telephone I Facility Typ	No. (505) 441-0 e Receiver tra		
			racinty Typ	e Receiver tra		
Surface Owner Kennan	Mineral O	wner			Lease	No.
:			OF RE			
Unit Letter Section Township G 14 22S	Range Feet from the 37E	North/	South Line	Feet from the	East/West Line	County Lea
Latitude N 32° 23' 42.0" Longitude W 103° 07' 54.0"						
	NAT	URE	OF REL			30-025-24637
Type of Release Crude Oil Source of Release Ball valve on re	occiver tran		Volume of Release 740 bbls Volume Recovered 705 bbls  Date and Hour of Occurrence Date and Hour of Discovery			
			1/23/2008	08:45	1/23/2	008 09:00
Was Immediate Notice Given?	] Yes 🛛 No 🗌 Not Re	quired	If YES, To	Whom? Pat Ric	chards	
By Whom? Camille Bryant Was a Watercourse Reached?			Date and F	lour 1/23/2008 plume Impacting t		
		II YES, VO	olume Impacting t	ing was reconstant		
If a Watercourse was Impacted, Describe Fully.*  MAY n 8 ZUUX						8 2008
	HOBBS OCD					
Describe Cause of Problem and Rem 2-inch steel ball valve on receiver spl per day. The pressure on the line is an	it causing a release of crude of					
Describe Area Affected and Cleanup	Action Taken.* .					
Please see the Nova Safety and Envir closure at the site.	onmental Site Closure Requ	est Repo	ort dated Apr	il 2008 for details	of the remedial	activities conducted for soil
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.						
	2.			OIL CON	SERVATIO	N DIVISION
Signature: Com (ll 2	DUGNA			C	I John	<del>ರ</del> ್ಯ
Printed Name: Camille Bryant	<u> </u>		Approved by	District Supervis	or: OŅMENTAL	ENGINEER
Title: Remediation Coordinator			Approval Da	te: 5.8.0	Expiration	n Date:
E-mail Address: cjbryant@paalp.com	n		Conditions o	f Approval:		Attached
Date: 5/8/08	Phone: (505) 441-09	65				
* Attach Additional Sheets If Neces	•					(1RP #1766 )
	f COHO?	813	3036	558		



# SITE CLOSURE REQUEST

## HUGH STATION RECEIVER SW ¼, NE ¼, SECTION 14, TOWNSHIP 22 SOUTH, RANGE 37 EAST SOUTHEAST OF EUNICE LEA COUNTY, NEW MEXICO

SRS #: 2008-026 RP #1766

Prepared for:

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



Prepared by:

NOVA Safety and Environmental 2057 Commerce Drive Midland, Texas 79703

RECEIVED

MAY - A MING

HUDDD

April 2008

Ronald K. Rounsaville

Project Manager

Todd K. Choban, P.G.

Vice President, Technical Services

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Figure 1: Figure 2:

Table 1:

Confirmation Soil Sample Analytical Results

Site Location Map Site and Sample Location Map

## **APPENDICES**

Appendix A: Laboratory Reports

Appendix B: Release Notification and Corrective Action (Form C-141)

## 1.0 INTRODUCTION AND BACKGROUND

On behalf of Plains Pipeline, L.P. (Plains), NOVA Safety and Environmental (NOVA) has prepared this Site Closure Request for the crude oil release site known as Hugh Station Receiver (SRS# 2008-026). The site is located approximately four miles southeast of Eunice, New Mexico, in the SW ¼ NE ¼, Section 14, Township 22 South, Range 37 East. A topographic location map and site map illustrating the soil sample locations are provided as Figures 1 and 2, respectively. Plains operates a pipeline pump station at the site and the property on which the release occurred is owned by the estate of Winnie and Tom Keenan and represented by Mr. Leo Sims. On January 23, 2008, an estimated seven hundred and forty (740) barrels of crude oil was released from a two-inch steel ball valve located on a receiver drain. Approximately seven hundred five (705) barrels of crude oil was recovered during initial response activities, resulting in a net loss of approximately thirty five (35) barrels of crude oil. The release was attributed to the freezing and failure of the drain ball valve. An area of stained soil measuring approximately two hundred seventy five (275) feet in length and fifty to seventy (50 to 75) feet in width was affected by the release. The Release Notification and Corrective Action (Form C-141) is included as Appendix B.

## 2.0 NMOCD SITE CLASSIFICATION

The depth to groundwater in the on-site area is 65 feet bgs, according to the depth to groundwater database maintained by the New Mexico Office of the State Engineer. Based on the NMOCD soil classification system, 10 points would be assigned to the site as a result of this criterion.

There are no water wells located within 1,000 feet of the site. Based on the NMOCD Soil Classification System, 0 points would be assigned to the site as a result of this criterion.

There are no surface-water features identified within a one-mile radius of the site. Based on the NMOCD Soil Classification System, no points would be assigned to the site as a result of this criterion. The NMOCD guidelines indicate that the site would have a Ranking Score of 10. The soil action levels for a site with a Ranking Score of 10 points are as follows:

- Benzene 10 mg/Kg
- BTEX 50 mg/Kg
- TPH 1000 mg/Kg

#### 3.0 SUMMARY OF FIELD ACTIVITIES

On January 24, 2008, on-site excavation activities commenced and were initially concentrated to the northern third and southern third of the impacted area due to space restrictions within the station facility. Excavated soil was stockpiled over the central portion of the impacted area pending landowner approval to remove the stockpiled soil from the facility. Visual and olfactory techniques were utilized to delineate the vertical and horizontal extent of hydrocarbon impact in the stained soil.

On January 29, 2008, two confirmation soil samples were collected from the excavation floor (S Floor-1 and N Floor -1) and four soil samples were collected from the excavation sidewalls (NSW-1, ESW-1, WSW-1 and SSW-1). The soil samples were submitted to the laboratory for benzene, toluene, ethylbenzene and xylene (BTEX) analysis using EPA Method SW846-8021b and total petroleum hydrocarbons (TPH) using method SW-8015b. The analytical results indicated the laboratory submitted soil samples exhibited BTEX concentrations below the laboratory detection limit (MDL) of 0.01 mg/Kg for each BTEX constituent. The analytical results indicated all of the submitted samples exhibited benzene and BTEX concentrations below the NMOCD regulatory standard of 10 mg/Kg and 50 mg/Kg, respectively. The analytical results indicated TPH concentrations were below the MDL of 50 mg/Kg and the NMOCD regulatory standard of 1,000 mg/Kg. Confirmation Soil Sample Analytical Results are summarized in Table 1 and laboratory analytical reports are included in Appendix A.

On February 21, 2008, additional confirmation soil samples (one floor - C Floor-1 and two sidewall soil samples - WSW-2 and ESW-2) were collected from upon completion of the central portion excavation after this area had previously been utilized for stockpiling due to space constraints on the property. These samples were likewise submitted to the laboratory for TPH and BTEX analysis. The analytical results indicated the laboratory submitted soil samples exhibited BTEX concentrations were below the laboratory detection limit MDL of 0.01 mg/Kg for each BTEX constituent. The analytical results indicated all of the submitted samples exhibited benzene and BTEX concentrations below the NMOCD regulatory standard of 10 mg/Kg and 50 mg/Kg, respectively. The analytical results also indicated TPH concentrations were below the MDL of 50 mg/Kg and the NMOCD regulatory standard of 1,000 mg/Kg. Soil sample WSW-1 was analyzed for chloride concentrations and the analytical results indicate the chloride concentration of this soil sample was below the MDL of 100 mg/Kg.

Approximately 3,216 cubic yards (cy) of soil excavated from the leak site was transported, under manifest to the Plains Lea Station Land Farm (NMOCD GW-351). On February 28, 2008, Plains requested permission from the NMOCD to backfill the leak site with non-impacted soil purchased from the landowner (Mr. Sims). On February 29, 2008, the NMOCD approved the request for permission to backfill the site with non-impacted soil purchased from the landowner. The backfill soil was compacted in eighteen-inch lifts and contoured to fit the topography of the site.

# 4.0 CLOSURE REQUEST

NOVA recommends, Plains provide the NMOCD a copy of this Site Closure Request and request the NMOCD grant site closure status to the Hugh Station Receiver release of January 23, 2008.

## 5.0 LIMITATIONS

NOVA Safety and Environmental has prepared this Site Closure Request to the best of its ability. No other warranty, expressed or implied, is made or intended.

NOVA Safety and Environmental has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. NOVA Safety and Environmental 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 Safety and Environmental has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. NOVA Safety and Environmental 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 Marketing, L.P. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of NOVA Safety and Environmental and/or Plains Marketing L.P.

## 6.0 DISTRIBUTION

Copy 1: Larry Johnson

New Mexico Oil Conservation Division (District 1)

1625 French Drive Hobbs, NM 88240

Copy 2: Daniel Bryant / Camille Bryant

Plains Marketing, LP

P.O. Box 3119

Midland, Texas 79702

Copy 3: Jeff Dann

Plains Pipeline, L.P.

333 Clay Street, Suite 1600

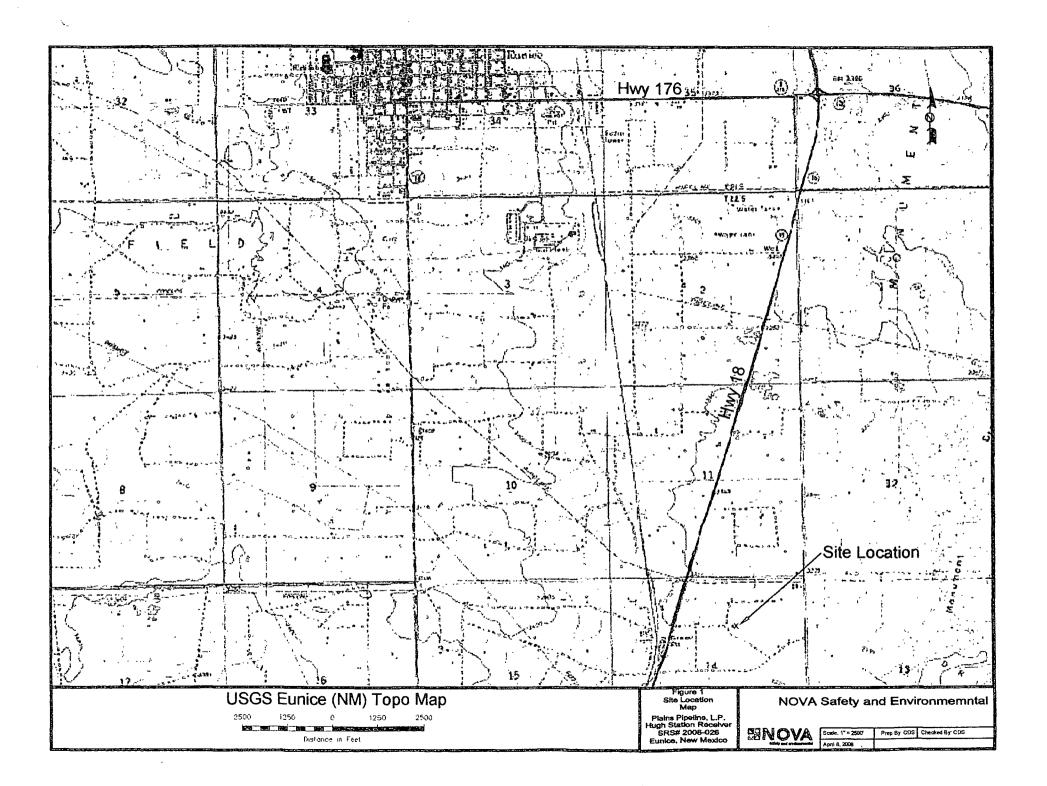
Houston, TX 77002 jpdann@paalp.com

Copy 4: NOVA Safety and Environmental.

2057 Commerce Drive Midland, TX 79703

rrounsaville@novatraining.cc

FIGURES



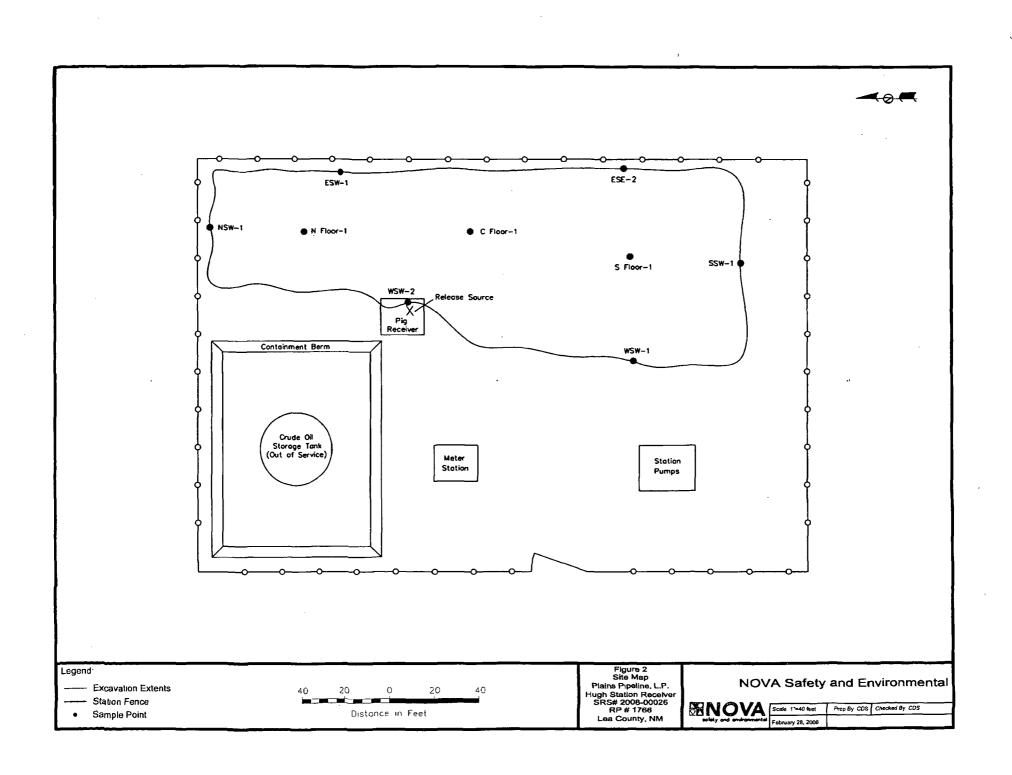




TABLE 1

## PLAINS PIPELINE, L.P.

## **Confirmation Soil Sample Analytical Results**

## **HUGH STATION RECEIVER**

## Plains SRS # 2008-026

				Me	ethod SW-80	15b		Meth	od SW 846-8	3021b		SM 4500
SAMPLE DATE	SAMPLE LOCATION	SAMPLE DEPTH	SOIL STATUS	GRO C <sub>6</sub> -C <sub>12</sub> mg/Kg	DRO >C <sub>12</sub> -C <sub>35</sub> mg/Kg	Total TPH C <sub>6</sub> -C <sub>35</sub> mg/Kg	Benzene mg/Kg	Toluene mg/Kg	Ethylbenz ene mg/Kg	Xylene mg/Kg	Total BTEX mg/Kg	Chloride mg/Kg
NMOCD REGUI	LATORY STANDARD			-	-	1,000	. 10	•	-	-	50	250
1/29/2008	S Floor-1	3'	In-Situ	<1.0	<50	<50	< 0.01	. <0.01	<0.01	<0.01	<0.01	-
1/29/2008	N Floor-1	5'	In-Situ	<1.0	<50	<50	<0.01	< 0.01	<0.01	< 0.01	< 0.01	
1/29/2008	NSW-1	4'	In-Situ	<1.0	<50	<50	<0.01	<0.01	<0.01	<0.01	<0.01	-
1/29/2008	ESW-1	4'	In-Situ	1.54	<50	<50	< 0.01	< 0.01	<0.01	< 0.01	<0.01	-
1/29/2008	WSW-1	2.5'	In-Situ	<1.0	<50	<50	<0.01	< 0.01	<0.01	<0.01	<0.01	<100
1/29/2008	SSW-1	2.5'	In-Situ	<1.0	<50	<50	<0.01	< 0.01	<0.01	<0.01	< 0.01	-
"增行八铢八铢"	<b>新</b>	器、作品、统行	1. 名意" 4.	「 選集、 異す		小詞 3章	かり 発発し 私	180		湖 新 新	馬馬斯斯	3
2/21/2008	WSW-2	4'	In-Situ	1.03	<50	<50	< 0.01	<0.01	< 0.01	< 0.01	< 0.01	-
2/21/2008	C Floor-1	4'	In-Situ	1.18	<50	<50	< 0.01	<0.01	< 0.01	< 0.01	< 0.01	
2/21/2008	ESW-2	2.5'	In-Situ	<1.0	<50	<50	< 0.01	<0.01	< 0.01	< 0.01	<0.01	-
(11、特別(1) 獨北	理 計量	增 . 數		FF. F. B	The state of the s			化		は移り場が	游戏 繼 統	To define the same

**APPENDICES** 

# APPENDIX A: Laboratory Analytical Reports



16701 Allertigen Aventie, Suite 9 200 East Sunser Road, State E 5002 Barm Street, Suite Af CIÓ 5 Harris Parkway, Suite 110

L. Ebrok, Jesus 29424 EuPago Texas 19922 Michard: Tex is 79703 Ft. Worth Tokas 76132

915-523-3440 TAX 915 - ERF - 2944 FAX 432+699+6313 432 • 689 • 6301

817•20 •5268

F-Mail lab@traceauatyspinch

# Analytical and Quality Control Report

**Curt Stanley** Nova Safety & Environmental 2057 Commerce St. Midland, TX, 79703

Report Date: February 5, 2008

Work Order: 

Project Name:

Project Location: SE of Eunice, NM **Hugh Station Receiver** 

Project Number:

2008-00026

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
149206	S Floor-1	soil	2008-01-28	15:00	2008-01-30
149207	N Floor-1	soil	2008-01-28	15:05	2008-01-30
149208	NSW-1	soil	2008-01-29	13:00	2008-01-30
149209	ESW-1	soil	2008-01-29	13:05	2008-01-30
149210	WSW-1	soil	2008-01-29	13:10	2008-01-30
149211	SSW-1	soil	2008-01-29	13:15	2008-01-30

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(cs) 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.

Work Order: 8013012 Hugh Station Receiver Page Number: 2 of 16 SE of Eunice, NM

# **Analytical Report**

Sample: 149206 - S Floor-1

Analysis: BTEX QC Batch: 45228 Prep Batch: 38890

Analytical Method: S 8021B Date Analyzed: Sample Preparation: 2008-01-30

2008-01-30

Prep Method: S 5035 Analyzed By: DC Prepared By: DC

		$\mathrm{RL}$			
Parameter	Flag	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

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		0.997	mg/Kg	1	1.00	100	70 - 130
4-Bromofluorobenzene (4-BFB)		0.971	mg/Kg	1	1.00	97	70 - 130

Sample: 149206 - S Floor-1

TPH DRO Analysis: QC Batch: 45139 Prep Batch: 38863

Analytical Method: Date Analyzed:

Mod. 8015B 2008-01-30 Sample Preparation: 2008-01-30

Prep Method: N/A Analyzed By: LD Prepared By: LD

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

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Triacontane		137	mg/Kg	1	100	137	39.1 - 137.7

Sample: 149206 - S Floor-1

Analysis: TPH GRO QC Batch: 45155 Prep Batch: 38890

Analytical Method: Date Analyzed:

S 8015B 2008-01-30 Sample Preparation: 2008-01-30 Prep Method: S 5035 Analyzed By: DC Prepared By: DC

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

a .					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		0.917	mg/Kg	1	1.00	92	70 - 130
4-Bromofluorobenzene (4-BFB)		0.922	mg/Kg	1	1.00	92	70 - 130
Trifluorotoluene (TFT)		0.917		1 1			

Work Order: 8013012 Hugh Station Receiver Page Number: 3 of 16 SE of Eunice, NM

Sample:	149207	- N	Floor-1
---------	--------	-----	---------

Analysis:	BTEX
QC Batch:	45228
Prep Batch:	38890

Analytical Method: S 8021B Date Analyzed: 2008-01-30 Sample Preparation: 2008-01-30 Prep Method: S 5035 Analyzed By: DC Prepared By: DC

		RL			
Parameter	Flag	Result	Units	Dilution	RL
Benzene	<u> </u>	< 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

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		1.00	mg/Kg	1	1.00	100	70 - 130
4-Bromofluorobenzene (4-BFB)		0.964	mg/Kg	1	1.00	96	70 - 130

#### Sample: 149207 - N Floor-1

Analysis:	TPH DRO
QC Batch:	45139
Prep Batch:	38863

Analytical Method: Mod. 8015B
Date Analyzed: 2008-01-30
Sample Preparation: 2008-01-30

Prep Method: N/A Analyzed By: LD Prepared By: LD

Parameter	Fla	g	Result	Units		Dilution	RL
DRO			<50.0	mg/Kg		I	50.0
	D).	D. U	T1 **	D11 (1)	Spike	Percent	Recovery

•					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Triacontane		51.7	mg/Kg	1	100	52	39.1 - 137.7

#### Sample: 149207 - N Floor-1

4-Bromofluorobenzenc (4-BFB)

Analysis:	TPH GRO
QC Batch:	45155
Prep Batch:	<b>3</b> 8890

Analytical Method: S 8015B
Date Analyzed: 2008-01-30
Sample Preparation: 2008-01-30

Prep Method: S 5035 Analyzed By: DC Prepared By: DC

70 - 130

91

Parameter	Flag		RL Result		Units	D	ilution	RL
GRO			<1.00		mg/Kg		1	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.908	mg/Kg	1	1.00	91	70 - 130

mg/Kg

1

1.00

0.914

Work Order: 8013012 Hugh Station Receiver Page Number: 4 of 16 SE of Eunice, NM

Sample: 1	149208 -	NSW-1
-----------	----------	-------

Analysis:	BTEX
QC Batch:	45228
Prep Batch:	38890

Analytical Method: S 8021B Date Analyzed: 2008-01-30 Sample Preparation: 2008-01-30 Prep Method: S 5035 Analyzed By: DC Prepared By: DC

		RL			
Parameter	Flag	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

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		0.994	mg/Kg	1	1.00	99	70 - 130
4-Bromofluorobenzene (4-BFB)		0.963	mg/Kg	1	1.00	96	70 - 130

#### Sample: 149208 - NSW-1

Analysis: TPH DRO QC Batch: 45139 Prep Batch: 38863 Analytical Method: Mod. 8015B
Date Analyzed: 2008-01-30
Sample Preparation: 2008-01-30

Prep Method: N/A Analyzed By: LD Prepared By: LD

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

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Triacontane		134	mg/Kg	1	100	134	39.1 - 137.7

#### Sample: 149208 - NSW-1

Analysis: TPH GRO QC Batch: 45155 Prep Batch: 38890 Analytical Method: S 8015B
Date Analyzed: 2008-01-30
Sample Preparation: 2008-01-30

Prep Method: S 5035 Analyzed By: DC Prepared By: DC

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

					$\mathbf{Spike}$	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		0.907	mg/Kg	1	1.00	91	70 - 130
4-Bromofluorobenzene (4-BFB)		0.911	mg/Kg	1	1.00	91	70 - 130

Work Order: 8013012 Hugh Station Receiver Page Number: 5 of 16 SE of Eunice, NM

#### Sample: 149209 - ESW-1

Analysis: BTEX QC Batch: 45229 Prep Batch: 38890 Analytical Method: S 8021B
Date Analyzed: 2008-01-31
Sample Preparation: 2008-01-30

Prep Method: S 5035 Analyzed By: DC Prepared By: DC

		RL			
Parameter	Flag	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

					Spike	Percent	Recovery
Surrogate	$\operatorname{Flag}$	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		1.01	mg/Kg	1	1.00	101	70 - 130
4-Bromofluorobenzene (4-BFB)		0.981	mg/Kg	1	1.00	98	70 - 130

#### Sample: 149209 - ESW-1

Analysis: TPH DRO QC Batch: 45139 Prep Batch: 38863 Analytical Method: Mod. 8015B Date Analyzed: 2008-01-30 Sample Preparation: 2008-01-30

Prep Method: N/A Analyzed By: LD Prepared By: LD

Parameter	F	lag		Result		nits	Dilution	RL
DRO				<50.0	mg/	Ng	1	50.0
	170		•.		T3:1	Spike	Percent	Recovery

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Triacontane		123	mg/Kg	1	100	123	39.1 - 137.7

#### Sample: 149209 - ESW-1

Analysis: TPH GRO QC Batch: 45227 Prep Batch: 38890 Analytical Method: S 8015B
Date Analyzed: 2008-01-31
Sample Preparation: 2008-01-30

Prep Method: S 5035 Analyzed By: DC Prepared By: DC

		m RL			
Parameter	Flag	Result	Units	Dilution	RL
GRO	В	1.54	mg/Kg	1	1.00

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		0.900	mg/Kg	1	1.00	90	70 - 130
4-Bromofluorobenzene (4-BFB)		0.917	mg/Kg	1	1.00	92	70 - 130
				_			

Report Date: February 5, 2008

2008-00026

Work Order: 8013012 Hugh Station Receiver Page Number: 6 of 16 SE of Eunice, NM

Sample: 149210 - WSW-1

Analysis: BTEX QC Batch: 45229 Prep Batch: 38890

Analytical Method: Date Analyzed: Sample Preparation:

S~8021B2008-01-31 2008-01-30 Prep Method: S 5035 Analyzed By: DC Prepared By: . DC

		RL			
Parameter	Flag	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

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		0.991	mg/Kg	1	1.00	99	70 - 130
4-Bromofluorobenzene (4-BFB)		0.975	mg/Kg	1	1.00	98	70 - 130

Sample: 149210 - WSW-1

Analysis: QC Batch:

Prep Batch:

TPH DRO 45139 38863

Analytical Method: Date Analyzed:

Mod. 8015B 2008-01-30 Sample Preparation: 2008-01-30

Prep Method: N/A Analyzed By: LD Prepared By: LD

RLResult Units Dilution RLParameter Flag DRO < 50.0 mg/Kg 50.0

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Triacontane		134	mg/Kg	1	100	134	39.1 - 137.7

Sample: 149210 - WSW-1

Analysis: QC Batch: Prep Batch:

TPH GRO 45227 38890

Analytical Method: Date Analyzed:

S 8015B 2008-01-31 2008-01-30 Sample Preparation:

Prep Method: S 5035 Analyzed By: DC Prepared By: DC

RLParameter Flag Result Units Dilution RLGRO <1.00 mg/Kg 1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.902	mg/Kg	1	1.00	90	70 - 130
4-Bromofluorobenzene (4-BFB)		0.924	mg/Kg	1	1.00	92	70 - 130

Work Order: 8013012 Hugh Station Receiver Page Number: 7 of 16 SE of Eunice, NM

Sample: 149211 - SSW-1

Analysis: BTEX QC Batch: 45229 Prep Batch: 38890 Analytical Method: S 8021B
Date Analyzed: 2008-01-31
Sample Preparation: 2008-01-30

Prep Method: S 5035 Analyzed By: DC Prepared By: DC

		m RL			
Parameter	Flag	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

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		1.01	mg/Kg	1	1.00	101	70 - 130
4-Bromofluorobenzene (4-BFB)		0.975	${ m mg/Kg}$	1	1.00	98	70 - 130

Sample: 149211 - SSW-1

Analysis: TPH DRO QC Batch: 45139 Prep Batch: 38863 Analytical Method: Mod. 8015B Date Analyzed: 2008-01-30 Sample Preparation: 2008-01-30

Prep Method: N/A Analyzed By: LD Prepared By: LD

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

				•	Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Triacontane		122	mg/Kg	1	100	122	39.1 - 137.7

Sample: 149211 - SSW-1

Analysis: TPH GRO QC Batch: 45227 Prep Batch: 38890 Analytical Method: S 8015B
Date Analyzed: 2008-01-31
Sample Preparation: 2008-01-30

Prep Method: S 5035 Analyzed By: DC Prepared By: DC

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

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		0.907	mg/Kg	1	1.00	91	70 - 130
4-Bromofluorobenzene (4-BFB)		0.919	mg/Kg	1	1.00	92	70 - 130

Method Blank (1) QC Batch: 45139

QC Batch: 45139 Prep Batch: 38863 Date Analyzed: 2008-01-30 QC Preparation: 2008-01-30

Analyzed By: LD Prepared By: LD

Work Order: 8013012 Hugh Station Receiver Page Number: 8 of 16 SE of Eunice, NM

Donomoton		Flag		MDL Result		Units			RL
Parameter DRO		riag		18.1		mg/K		50	
<b>G</b> .	T	Dec. 1	TT *4	Dilecti	•		Percent	Reco Lim	
Surrogate n-Triacontane	Flag	Result 94.2	Units mg/Kg	Dilutio		ount R	ecovery 94	33.3 -	
II- II Iacontane		31.4	mg/mg			00	V1	00.0	101.1
Method Blank (1	.) QC	Batch: 45155							
QC Batch: 45155	5		Date Anal	lyzed: 200	08-01-30		Analyz	ed By:	DC
Prep Batch: 38890	)	•	QC Prepa	ration: 200	08-01-30		Prepare	ed By:	DC
Danamatan		T21		MDL		Units			RL
Parameter GRO		Flag		Result 0.632		mg/K			1
	· · · · · · · · · · · · · · · · · · ·								
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery		overy mits
Trifluorotoluene (T)	FT)	Tiag	0.938	mg/Kg	1	1.00	94		- 130
4-Bromofluorobenze		3)	0.936	mg/Kg	1	1.00	94	70 -	- 130
Method Blank (1	,	Batch: 45227	Detection 1	ll. 900	00 01 21		A a l	ad Dan	DC
Method Blank (1 QC Batch: 45227 Prep Batch: 38890	7	Batch: 45227	Date Ana QC Prepa	ration: 200	08-01-31 08-01-30		Analyz Prepare		DC DC
QC Batch: 45227 Prep Batch: 38890	7	·		ration: 200 MDL		I Inite	Prepare		DC
QC Batch: 45227 Prep Batch: 38890	7	Batch: 45227		mation: 200 MDL Result		Units mg/K	Prepare		
QC Batch: 45227 Prep Batch: 38890	7	·		ration: 200 MDL		mg/K	Prepare g	ed By:	DC RL
QC Batch: 45227 Prep Batch: 38890  Parameter GRO	7	Flag		mation: 200 MDL Result			Prepare	ed By:	DC RL
QC Batch: 45227 Prep Batch: 38890  Parameter GRO  Surrogate Trifluorotoluene (Ti	FT)	Flag Flag	QC Prepa	MDL Result 0.596 Units mg/Kg	08-01-30	mg/K Spike Amount 1.00	Prepare g Percent	Rec	RL 1 overy mits - 130
QC Batch: 45227 Prep Batch: 38890  Parameter GRO  Surrogate	FT)	Flag Flag	QC Prepa	MDL Result 0.596	08-01-30  Dilution	mg/K Spike Amount	Prepare g Percent - Recovery	Rec	DC  RL 1 overy
QC Batch: 45227 Prep Batch: 38890  Parameter GRO  Surrogate Trifluorotoluene (Ti	FT) ene (4-BFF	Flag Flag	QC Prepa	MDL Result 0.596 Units mg/Kg	Dilution	mg/K Spike Amount 1.00	Prepare g Percent Recovery	Rec	RL 1 overy mits - 130
QC Batch: 45227 Prep Batch: 38890  Parameter GRO  Surrogate Trifluorotoluene (Trifluorotoluene (Triflu	FT) ene (4-BFF	Flag Flag	Result 0.920 0.907	MDL Result 0.596  Units mg/Kg mg/Kg	Dilution 1	mg/K Spike Amount 1.00	Prepare g Percent Recovery 92 91	Rec Lin 70	RL 1 overy mits - 130 - 130
QC Batch: 45227 Prep Batch: 38890  Parameter GRO  Surrogate Trifluorotoluene (T) 4-Bromofluorobenze	FT) ene (4-BFF	Flag Flag	QC Prepa	MDL Result 0.596  Units mg/Kg mg/Kg	Dilution	mg/K Spike Amount 1.00	Prepare g Percent Recovery 92	Rec Lin 70	RL 1 overy mits - 130
QC Batch: 45227 Prep Batch: 38890  Parameter GRO  Surrogate Trifluorotoluene (T) 4-Bromofluorobenze  Method Blank (1) QC Batch: 45228 Prep Batch: 38890	FT) ene (4-BFF	Flag Flag  Batch: 45228	Result 0.920 0.907	MDL Result 0.596  Units mg/Kg mg/Kg mg/Kg mg/Kg MDI	Dilution  1 1 08-01-30 08-01-30	mg/K Spike Amount 1.00 1.00	Prepare g Percent Recovery 92 91 Analyz Prepar	Rec Lin 70	RL 1 overy mits - 130 - 130 DC DC
QC Batch: 45227 Prep Batch: 38890  Parameter GRO  Surrogate Trifluorotoluene (Trifluorotoluene (Triflu	FT) ene (4-BFF	Flag Flag	Result 0.920 0.907	MDL Result 0.596  Units mg/Kg mg/Kg mg/Kg mg/Kg	Dilution  1 1 08-01-30 08-01-30	mg/K Spike Amount 1.00 1.00	Prepare  Percent Recovery  92 91  Analyz Prepare	Rec Lin 70	RL  1 overy mits 130 130 DC DC RL
QC Batch: 45227 Prep Batch: 38890  Parameter GRO  Surrogate Trifluorotoluene (T) 4-Bromofluorobenze  Method Blank (1) QC Batch: 45228 Prep Batch: 38890	FT) ene (4-BFF	Flag Flag  Batch: 45228	Result 0.920 0.907	MDL Result 0.596  Units mg/Kg mg/Kg mg/Kg mg/Kg MDI	Dilution  1 1 08-01-30 08-01-30 08-01-30	mg/K Spike Amount 1.00 1.00	Prepare  Percent Recovery  92  91  Analyz Prepare	Rec Lin 70	RL 1 overy mits - 130 - 130  DC DC RL
QC Batch: 45227 Prep Batch: 38890  Parameter GRO  Surrogate Trifluorotoluene (T) 4-Bromofluorobenze  Method Blank (1) QC Batch: 45228 Prep Batch: 38890  Parameter Benzene	FT) ene (4-BFF	Flag Flag  Batch: 45228	Result 0.920 0.907	MDL Result 0.596  Units mg/Kg mg/Kg mg/Kg dration: 200  MDI Result <0.00300	Dilution  1 1 08-01-30 08-01-30 08-01-30 00 0	mg/K Spike Amount 1.00 1.00	Prepare  Percent Recovery  92  91  Analyz Prepare	Rec Lin 70	DC RL 1 overy mits - 130 - 130 DC DC RL 0.01

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.00	mg/Kg	1	1.00	100	70 - 130
4-Bromofluorobenzene (4-BFB)		0.966	mg/Kg	1	1.00	97	70 - 130

Method Blank (1)

QC Batch: 45229

QC Batch: Prep Batch: 38890

45229

Date Analyzed: QC Preparation: 2008-01-30

2008-01-31

Analyzed By: DC

Prepared By: DC

MDL

Parameter	Flag	Result	Units	RL
Benzene		< 0.00300	mg/Kg	0.01
Toluene		< 0.00300	mġ/Kg	0.01
Ethylbenzene		< 0.00400	mg/Kg	0.01
Xylene		< 0.0140	mg/Kg	0.01

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		1.01	mg/Kg	1	1.00	101	70 - 130
4-Bromofluorobenzene (4-BFB)		0.975	mg/Kg	1 '	1.00	98	70 - 130

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

QC Batch:

45139

Date Analyzed:

2008-01-30

Analyzed By: LD

Prep Batch: 38863

QC Preparation: 2008-01-30 Prepared By: LD

	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
DRO	231	mg/Kg	1	250	<14.6	92	48.1 - 140.9

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

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
DRO	259	mg/Kg	1	250	<14.6	104	48.1 - 140.9	11	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	Result	Result	Units	Dil.	Amount	Rec.	Rec.	$\mathbf{Limit}$
n-Triacontane	117	137	mg/Kg	1	100	117	137	42.1 - 138.9

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

QC Batch: Prep Batch:

45155 38890

Date Analyzed:

2008-01-30

Analyzed By: DC

QC Preparation: 2008-01-30 Prepared By: DC

continued ...

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Work Order: 8013012 Hugh Station Receiver Page Number: 10 of 16 SE of Eunice, NM

control spikes continued							
•••••	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
GRO	8.52	mg/Kg	1	10.0	< 0.0118	85	70 - 130

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

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
GRO	8.41	mg/Kg	1	10.0	< 0.0118	84	70 - 130	1	

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	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	0.963	0.992	mg/Kg	1	1.00	96	99	70 - 130
4-Bromofluorobenzene (4-BFB)	0.972	0.950	mg/Kg	1	1.00	97	95	70 - 130

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

QC Batch: 45227 Prep Batch: 38890 Date Analyzed: 2008-01-31 QC Preparation: 2008-01-30

Analyzed By: DC Prepared By: DC

	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
GRO	7.72	mg/Kg	1	10.0	< 0.0118	77	70 - 130

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

•	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
GRO	7.73	mg/Kg	1	10.0	< 0.0118	77	70 - 130	0	

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
Durrogate	rtesuit	resure	United	DII.	Amount	Tiec.	Tiec.	Dillit
Trifluorotoluene (TFT)	0.967	0.934	mg/Kg	1	1.00	97	93	70 - 130
4-Bromofluorobenzene (4-BFB)	0.934	0.940	mg/Kg	1	1.00	93	94	70 - 130

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

QC Batch: 45228 Prep Batch: 38890 Date Analyzed: 2008-01-30 QC Preparation: 2008-01-30

Analyzed By: DC Prepared By: DC

	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
Benzene	1.01	mg/Kg	1	1.00	< 0.00300	101	70 - 130
Toluene	0.989	mg/Kg	1	1.00	< 0.00300	99	70 - 130
Ethylbenzene	0.956	mg/Kg	1	1.00	< 0.00400	96	70 - 130
Xylene	2.87	mg/Kg	1	3.00	< 0.0140	96	70 - 130

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

Report Date: February 5, 2008

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Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.877	mg/Kg	1	1.00	< 0.00300	88	70 - 130	14	
Toluene	0.858	mg/Kg	1	1.00	< 0.00300	86	70 - 130	14	
Ethylbenzene	0.835	mg/Kg	1	1.00	< 0.00400	84	70 - 130	14	
Xylene	2.51	mg/Kg	· 1	3.00	< 0.0140	84	70 - 130	13	

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	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	1.00	1.01	mg/Kg	1	1.00	100	101	70 - 130
4-Bromofluorobenzene (4-BFB)	0.973	0.982	mg/Kg	1	1.00	97	98	70 - 130

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

QC Batch: 45229 Prep Batch: 38890 Date Analyzed: 2008-01-31 QC Preparation: 2008-01-30

Analyzed By: DC Prepared By: DC

	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
Benzene	0.953	mg/Kg	1	1.00	< 0.00300	95	70 - 130
Toluene	0.932	mg/Kg	1	1.00	< 0.00300	93	70 - 130
Ethylbenzene	0.904	mg/Kg	1	1.00	< 0.00400	90	70 - 130
Xylene	2.72	mg/Kg	1	3.00	< 0.0140	91	70 - 130

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

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Benzene	0.946	mg/Kg	1	1.00	< 0.00300	95	70 - 130	1	
Toluene	0.929	mg/Kg	1	1.00	< 0.00300	93	70 - 130	0	
Ethylbenzene	0.911	mg/Kg	1	1.00	< 0.00400	91	70 - 130	1	
Xylene	2.75	mg/Kg	1	3.00	< 0.0140	92	70 - 130	1	

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	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	1.01	1.02	mg/Kg	1	1.00	101	102	70 - 130
4-Bromofluorobenzene (4-BFB)	0.981	0.984	mg/Kg	1	1.00	98	98	70 - 130

Matrix Spike (MS-1) Spiked Sample: 149260

QC Batch: 45139 Prep Batch: 38863

Date Analyzed: 2008-01-30 QC Preparation: 2008-01-30

Analyzed By: LD Prepared By: LD

	MS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
DRO	137	mg/Kg	1	250.	<14.6	55	35.6 - 173.6

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

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Work Order: 8013012 Hugh Station Receiver Page Number: 12 of 16 SE of Eunice, NM

		MSD			Spike	Matrix		Rec.		RPD
Param		Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
DRO	1	184	mg/Kg	1	250	<14.6	74	35.6 - 173.6	29	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		Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
n-Triacontane	2	156	191	mg/Kg	1	100	156	191	33 - 156.2

Matrix Spike (MS-1)

Spiked Sample: 149208

QC Batch: 45155 Prep Batch: 38890 Date Analyzed: 2008-01-30 QC Preparation: 2008-01-30

Analyzed By: DC Prepared By: DC

	MS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
GRO	13.0	mg/Kg	1	10.0	< 0.0118	130	70 - 130

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	Result	Rec.	Limit	RPD	Limit
GRO	11.2	mg/Kg	1	10.0	< 0.0118	112	70 - 130	15	

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	$\mathbf{Result}$	Result	${f Units}$	Dil.	Amount	Rec.	${ m Rec.}$	Limit
Trifluorotoluene (TFT)	0.890	0.905	mg/Kg	1	1	89	90	70 - 130
4-Bromofluorobenzene (4-BFB)	0.945	0.966	mg/Kg	1	1	94	97	70 - 130

Matrix Spike (MS-1)

Spiked Sample: 149192

QC Batch: 45227 Prep Batch: 38890 Date Analyzed: 200 QC Preparation: 200

2008-01-31 Analy 2008-01-30 Prepa

Analyzed By: DC Prepared By: DC

		MS			Spike	Matrix		Rec.
Param		Result	Units	Dil.	Amount	Result	Rec.	Limit
GRO	3	32.2	mg/Kg	1	10.0	16.3773	158	70 - 130

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	Result	Rec.	Limit	RPD	Limit
GRO	4	30.0	mg/Kg	1	10.0	16.3773	136	70 - 130	7	

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

continued ...

<sup>&</sup>lt;sup>1</sup>MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.

<sup>&</sup>lt;sup>2</sup>High surrogate recovery due to peak interference.

<sup>&</sup>lt;sup>3</sup>Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

<sup>&</sup>lt;sup>4</sup>Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

Work Order: 8013012 Hugh Station Receiver Page Number: 13 of 16 SE of Eunice, NM

matrix spikes continued								
	MS	MSD			Spike	MS	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
	MS	MSD			Spike	MS	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	0.895	0.875	mg/Kg	1	1	90	88	70 - 130
4-Bromofluorobenzene (4-BFB)	1.11	1.12	mg/Kg	1	1	111	112	70 - 130

Matrix Spike (MS-1)

Spiked Sample: 149208

QC Batch: 45228 Prep Batch: 38890 Date Analyzed: 2008-01-30 QC Preparation: 2008-01-30 Analyzed By: DC Prepared By: DC

	MS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
Benzene	1.19	mg/Kg	1	1.00	< 0.00300	119	70 - 130
Toluene	1.18	mg/Kg	1	1.00	< 0.00300	118	70 - 130
Ethylbenzene	1.17	mg/Kg	1	1.00	< 0.00400	117	70 - 130
Xylene	3.54	mg/Kg	1	3.00	< 0.0140	118	70 - 130

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	Result	Rec.	Limit	RPD	Limit
Benzene	1.11	mg/Kg	1	1.00	< 0.00300	111	70 - 130	7	
Toluene	1.10	mg/Kg	1	1.00	< 0.00300	110	70 - 130	7	
Ethylbenzene _	1.10	mg/Kg	1	1.00	< 0.00400	110	70 - 130	6	
Xylene	3.32	mg/Kg	1	3.00	< 0.0140	111	70 - 130	6	

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)	0.990	0.997	mg/Kg	1	1	99	100	70 - 130
4-Bromofluorobenzene (4-BFB)	0.969	0.973	mg/Kg	1	1	97	97	70 - 130

Matrix Spike (MS-1)

Spiked Sample: 149192

QC Batch: 45229 Prep Batch: 38890 Date Analyzed: QC Preparation: 2008-01-30

2008-01-31

Analyzed By: DC Prepared By: DC

	MS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
Benzene	1.06	mg/Kg	1	1.00	< 0.00300	106	70 - 130
Toluene	1.11	mg/Kg	1	1.00	0.0838	103	70 - 130
Ethylbenzene	1.12	mg/Kg	1	1.00	0.1133	101	70 - 130
Xylene	3.34	mg/Kg	1	3.00	0.213	104	70 - 130

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

continued ...

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Work Order: 8013012 Hugh Station Receiver Page Number: 14 of 16 SE of Eunice, NM

	-1		
matrix	snikes	continued	_

-	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Benzene	1.03	mg/Kg	1	1.00	< 0.00300	103	70 - 130	3	
Toluene	1.10	mg/Kg	1	1.00	0.0838	102	70 - 130	1	
Ethylbenzene	1.14	mg/Kg	1	1.00	0.1133	103	70 - 130	2	
Xylene	3.33	mg/Kg	1	3.00	0.213	104	70 - 130	0	

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	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	1.01	1.01	mg/Kg	1	1	101	101	70 - 130
4-Bromofluorobenzene (4-BFB)	1.03	1.05	mg/Kg	1	1	103	105	70 - 130

## Standard (CCV-1)

QC Batch: 45139

Date Analyzed: 2008-01-30

Analyzed By: LD

			CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		mg/Kg	250	248	99	85 - 115	2008-01-30

#### Standard (CCV-2)

QC Batch: 45139

Date Analyzed: 2008-01-30

Analyzed By: LD

			CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		mg/Kg	250	248	99	85 - 115	2008-01-30

## Standard (CCV-3)

QC Batch: 45139

Date Analyzed: 2008-01-30

Analyzed By: LD

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		mg/Kg	250	229	92	85 - 115	2008-01-30

## Standard (ICV-1)

QC Batch: 45155

Date Analyzed: 2008-01-30

Analyzed By: DC

Standard (CCV-1)

QC Batch: 45228

Work Order: 8013012

Hugh Station Receiver

Page Number: 15 of 16 . SE of Eunice, NM

Analyzed By: DC

			ICVs	ICVs	ICVs	Percent	<b></b>
D	Ela	TT:4 a	True	Found	Percent	Recovery	Date Analyzed
Param GRO	Flag	Units mg/Kg	Conc. 1.00	Conc. 1.02	Recovery 102	Limits 85 - 115	2008-01-30
GNO		mg/ Kg	1.00	1.02	102	65 - 115	2000-01-30
Standard	(CCV-1)						
QC Batch:	45155		Date Anal	yzed: 2008-01	-30	Anal	yzed By: DC
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed_
GRO		mg/Kg	1.00	1.11	111	85 - 115	2008-01-30
Standard	(ICV-1)						^
QC Batch:	45227		Date Anal	yzed: 2008-01	-31	Anal	yzed By: DC
			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		mg/Kg	1.00	0.982	98	85 - 115	2008-01-31
Standard	(CCV-1)						
QC Batch:	45227		Date Anal	yzed: 2008-01	-31	Anal	yzed By: DC
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		mg/Kg	1.00	0.962	96	85 - 115	2008-01-31
Standard	(ICV-1)						
QC Batch:	45228		Date Anal	yzed: 2008-01	-30	Anal	yzed By: DC
			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		mg/Kg	0.100	0.0910	91	85 - 115	2008-01-30
Toluene		mg/Kg	0.100	0.0887	89	85 - 115	2008-01-30
Ethylbenze	ne	mg/Kg	0.100	0.0850	85	85 - 115	2008-01-30
Xylene		mg/Kg	0.300	0.260	87	85 - 115	2008-01-30

Date Analyzed: 2008-01-30

Work Order: 8013012 Hugh Station Receiver Page Number: 16 of 16 SE of Eunice, NM

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0963	96	85 - 115	2008-01-30
Toluene		mg/Kg	0.100	0.0938	94	85 - 115	2008-01-30
Ethylbenzene		mg/Kg	0.100	0.0895	90	85 - 115	2008-01-30
Xylene		mg/Kg	0.300	0.270	90	85 - 115	2008-01-30

## Standard (ICV-1)

QC Batch: 45229

Date Analyzed: 2008-01-31

Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0962	96	85 - 115	2008-01-31
Toluene		mg/Kg	0.100	0.0942	94	85 - 115	2008-01-31
Ethylbenzene		mg/Kg	0.100	0.0908	91	85 - 115	2008-01-31
Xylene		mg/Kg	0.300	0.274	91	85 - 115	2008-01-31

## Standard (CCV-1)

QC Batch: 45229

Date Analyzed: 2008-01-31

Analyzed By: DC

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		mg/Kg	0.100	0.0953	95	85 - 115	2008-01-31
Toluene		mg/Kg	0.100	0.0934	93	85 - 115	2008-01-31
Ethylbenzene		mg/Kg	0.100	0.0909	91	85 - 115	2008-01-31
Xylene		mg/Kg	0.300	0.274	91	85 - 115	2008-01-31

LAB Order ID # UV JV 12	LAB	Order ID#	801	301	12
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TraceAnalysis,	Inc.
email: lah@traceanalysis co	m

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 Tel (806) 794-1298 Fax (806) 794-1298

5002 Basin Street, Suite A1 Midland, Texas 79703 Tel (432) 689-6301 Fax (432) 689-6313

200 East Sunset Rd., Suite E EI Paso, Texas 79922 Tel (915) 585-3443 Fax (915) 585-4944 Fax (915) 585-4944

email. lab@traceanalysis.cor	Π 1 (800) 378-1296	1 (888) 588-3443
Company Name: AFETY & ENVIRONME Abdress: (Street, Gity, Zip)	ATAL Phone #: 437-570-7770	ANALYSIS REQUEST (Circle or Specify Method No.)
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E-Mail tagge traceanalysis colo-

# Analytical and Quality Control Report

Becky Haskell Nova Safety & Environmental 2057 Commerce St. Midland, TX, 79703

Report Date: February 11, 2008

Work Order: 

8013014

Project Location: SE of Eunice, NM Hugh Station Receiver

Project Name: Project Number:

2008-00026

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
149213	WSW-1	soil	2008-01-29	13:10	2008-01-30

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 4 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

#### Standard Flags

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

# Case Narrative

Samples for project Hugh Station Receiver were received by TraceAnalysis, Inc. on 2008-01-30 and assigned to work order 8013014. Samples for work order 8013014 were received intact at a temperature of 3.1 deg C.

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

Test	Method
Chloride (Titration)	SM 4500-Cl B

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 8013014 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.

2008-00026

Work Order: 8013014 Hugh Station Receiver Page Number: 3 of 4 SE of Eunice, NM

## **Analytical Report**

Sample: 149213 - WSW-1

Analysis:

Chloride (Titration)

QC Batch: 45163 Prep Batch: 38896 Analytical Method: Date Analyzed:

Sample Preparation:

SM 4500-Cl B 2008-01-31

2008-01-31

Prep Method: N/A Analyzed By: AR Prepared By:

RL

Result Units Dilution RLParameter Flag Chloride <100 mg/Kg 50 2.00

Method Blank (1)

QC Batch: 45163

QC Batch: Prep Batch:

45163 38896 Date Analyzed: QC Preparation:

2008-01-31 2008-01-30 Analyzed By:

Prepared By:

MDL

Units RL Parameter Flag Result Chloride < 0.500 mg/Kg 2

Laboratory Control Spike (LCS-1)

QC Batch: Prep Batch:

45163 38896 Date Analyzed: QC Preparation:

2008-01-31 2008-01-30 Analyzed By: AR

Prepared By: AR

	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride	96.7	mg/Kg	1	100	< 0.500	97	85 - 115

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

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride	97.7	mg/Kg	1	100	< 0.500	98	85 - 115	1	20

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

Matrix Spike (MS-1)

Spiked Sample: 149262

QC Batch:

45163

Date Analyzed:

2008-01-31

Spike

Amount

5000

Analyzed By: AR Prepared By: AR

Prep Batch: 38896

Param

Chloride

QC Preparation:

Units

mg/Kg

2008-01-30

Dil.

50

Matrix Rec. Result Rec. Limit <25.0 101 85 - 115

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

MS

Result

5030

Report Date: February 11, 2008

2008-00026

Work Order: 8013014 Hugh Station Receiver Page Number: 4 of 4 SE of Eunice, NM

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride	5080	mg/Kg	50	5000	<25.0	102	85 - 115	1	20

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

Standard (ICV-1)

QC Batch: 45163

Date Analyzed: 2008-01-31

Analyzed By: AR

			ICVs	ICVs	ICVs	Percent	_
			True	Found	Percent	$\mathbf{Recovery}$	$\mathbf{Date}$
Param	$\mathbf{Flag}$	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	101	101	85 - 115	2008-01-31

Standard (CCV-1)

QC Batch: 45163

Date Analyzed: 2008-01-31

Analyzed By: AR

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	98.6	99	85 - 115	2008-01-31

			LAB Order ID# 901301												7	4										P	age	e	_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, Suile A1 20 Midland, Texas 79703 Tel (432) 689-6301 Fax (432) 689-6313							00 East Sunset Rd., Suite E El Paso, Texas 79922 Tel (915) 585-3443 Fax (915) 585-4944 1 (888) 588-3443					E	6015 Harris Pkw Ft. Worth, Tex Tel (817) 20				Suite 1 76137 5260	110 2
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## Analytical and Quality Control Report

**Curt Stanley** Nova Safety & Environmental 2057 Commerce St. Midland, TX, 79703

Report Date: February 27, 2008

Work Order:

Project Name:

Project Location: SE of Eunice, NM Hugh Station Receiver

Project Number: 2008-00026

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
151379	WSW-2	SOIL	2008-02-21	11:50	2008-02-21
151380	C FLOOR-1	SOIL	2008-02-21	11:55	2008-02-21
151381	ESW-2	SOIL	2008-02-21	12:00	2008-02-21

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 10 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 Hugh Station Receiver were received by TraceAnalysis, Inc. on 2008-02-21 and assigned to work order 8022142. Samples for work order 8022142 were received intact at a temperature of 4.0 C.

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

Test	Method				
BTEX	\$ 8021B				
TPH DRO	Mod. 8015B				
TPH GRO	S 8015B				

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 8022142 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.

2008-00026

Work Order: 8022142 Hugh Station Receiver Page Number: 3 of 10 SE of Eunice, NM

## **Analytical Report**

Sample: 151379 - WSW-2

Analysis: BTEX QC Batch: 45946 Prep Batch: 39553 Analytical Method: S 8021B
Date Analyzed: 2008-02-25
Sample Preparation: 2008-02-25

Prep Method: S 5035 Analyzed By: DC Prepared By: DC

		RL			
Parameter	Flag	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

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		1.06	mg/Kg	1	1.00	106	70 - 130
4-Bromofluorobenzene (4-BFB)		1.13	mg/Kg	1	1.00	113	70 - 130

Sample: 151379 - WSW-2

Analysis: TPH DRO QC Batch: 45852 Prep Batch: 39479 Analytical Method: M Date Analyzed: 24 Sample Preparation: 24

Mod. 8015B 2008-02-22 2008-02-22 Prep Method: N/A
Analyzed By: LD
Prepared By: LD

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

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Triacontane		80.8	mg/Kg	1	100	81	39.1 - 137.7

Sample: 151379 - WSW-2

Analysis: TPH GRO QC Batch: 45944 Prep Batch: 39553 Analytical Method: S 8015B
Date Analyzed: 2008-02-25
Sample Preparation: 2008-02-25

Prep Method: S 5035 Analyzed By: DC Prepared By: DC

		m RL			
Parameter	Flag	Result	Units	Dilution	RL
GRO	В	1.03	mg/Kg	1	1.00

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		0.878	mg/Kg	1	1.00	88	70 - 130
4-Bromofluorobenzene (4-BFB)		0.995	mg/Kg	1	1.00	100	70 - 130

Work Order: 8022142 Hugh Station Receiver Page Number: 4 of 10 SE of Eunice, NM

#### Sample: 151380 - C FLOOR-1

Analysis: BTEX QC Batch: 45946 Prep Batch: 39553 Analytical Method: S 8021B Date Analyzed: 2008-02-25 Sample Preparation: 2008-02-25 Prep Method: S 5035 Analyzed By: DC Prepared By: DC

	$^{\circ}$ RL			
Flag	Result	Units	Dilution	RL
,	< 0.0100	mg/Kg	ì	0.0100
	< 0.0100	mg/Kg	1	0.0100
	< 0.0100	mg/Kg	1	0.0100
	< 0.0100	mg/Kg	1	0.0100
	Flag	Flag Result  <0.0100 <0.0100 <0.0100	Flag Result Units  <0.0100 mg/Kg  <0.0100 mg/Kg  <0.0100 mg/Kg  <0.0100 mg/Kg	$\begin{tabular}{c ccccc} Flag & Result & Units & Dilution \\ \hline & <0.0100 & mg/Kg & 1 \\ <0.0100 & mg/Kg & 1 \\ <0.0100 & mg/Kg & 1 \\ \hline \end{tabular}$

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		1.06	mg/Kg	1	1.00	106	70 - 130
4-Bromofluorobenzene (4-BFB)		1.12	mg/Kg	1	1.00	112	70 - 130

#### Sample: 151380 - C FLOOR-1

Analysis: TPH DRO QC Batch: 45852 Prep Batch: 39479 Analytical Method: Mod. 8015B Date Analyzed: 2008-02-22 Sample Preparation: 2008-02-22

Prep Method: N/A Analyzed By: LD Prepared By: LD

		${ m RL}$			
Parameter	Flag	Result	Units	Dilution	RL
DRO		< 50.0	mg/Kg	1	50.0

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Triacontane		83.4	mg/Kg	1	100	83	39.1 - 137.7

#### Sample: 151380 - C FLOOR-1

Analysis: TPH GRO QC Batch: 45944 Prep Batch: 39553 Analytical Method: S 8015B
Date Analyzed: 2008-02-25
Sample Preparation: 2008-02-25

Prep Method: S 5035 Analyzed By: DC Prepared By: DC

		m RL			
Parameter	Flag	Result	Units	Dilution	RL
GRO	В	1.18	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.871	mg/Kg	1	1.00	87	70 - 130
4-Bromofluorobenzene (4-BFB)		0.987	mg/Kg	1	1.00	99	70 - 130

Report Date: February 27, 2008 2008-00026

Work Order: 8022142 Hugh Station Receiver Page Number: 5 of 10 SE of Eunice, NM

#### Sample: 151381 - ESW-2

Analysis: BTEX QC Batch: 45946 Prep Batch: 39553 Analytical Method: S 8021B Date Analyzed: 2008-02-25 Sample Preparation: 2008-02-25 Prep Method: S 5035 Analyzed By: DC Prepared By: DC

		m RL			
Parameter	Flag	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

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		1.07	mg/Kg	1	1.00	107	70 - 130
4-Bromofluorobenzene (4-BFB)		1.14	mg/Kg	1	1.00	114	70 - 130

#### Sample: 151381 - ESW-2

Analysis: TPH DRO QC Batch: 45852 Prep Batch: 39479 Analytical Method: Mod. 8015B
Date Analyzed: 2008-02-22
Sample Preparation: 2008-02-22

Prep Method: N/A Analyzed By: LD Prepared By: LD

		RL			
Parameter	${f Flag}$	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		73.0	mg/Kg	1	100	73	39.1 - 137.7

#### Sample: 151381 - ESW-2

Analysis: TPH GRO QC Batch: 45944 Prep Batch: 39553 Analytical Method: S 8015B
Date Analyzed: 2008-02-25
Sample Preparation: 2008-02-25

Prep Method: S 5035 Analyzed By: DC Prepared By: DC

		${ m RL}$			
Parameter	Flag	Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

				Spike	Percent	Recovery
Surrogate Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)	0.873	mg/Kg	1	1.00	87	70 - 130
4-Bromofluorobenzene (4-BFB)	0.992	mg/Kg	1 .	1.00	99	70 - 130

#### Method Blank (1) QC Batch: 45852

 QC Batch:
 45852
 Date Analyzed:
 2008-02-22

 Prep Batch:
 39479
 QC Preparation:
 2008-02-22

Analyzed By: LD Prepared By: LD Report Date: February 27, 2008 2008-00026

Work Order: 8022142 Hugh Station Receiver

MDL Parameter Flag Result Units RLDRO <14.6 50 mg/Kg Spike Percent Recovery Surrogate Flag Result Units Dilution Amount Recovery Limits 33.3 - 157.4 mg/Kg 100 n-Triacontane 51.2 1 51

Method Blank (1)

QC Batch: 45944

QC Batch: 45944 Prep Batch: 39553

GRO

Date Analyzed: 2008-02-25 QC Preparation: 2008-02-25 Analyzed By: DC Prepared By:

RL

Page Number: 6 of 10

SE of Eunice, NM

MDL Parameter Flag

Result Units 0.690 mg/Kg

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.963	mg/Kg	1	1.00	96	70 - 130
4-Bromofluorobenzene (4-BFB)		1.03	mg/Kg	1	1.00	103	70 - 130

Method Blank (1)

QC Batch: 45946

QC Batch: 45946 Prep Batch: 39553

Date Analyzed: QC Preparation: 2008-02-25

2008-02-25

Analyzed By: DC Prepared By: DC

MDL Parameter Flag Result Units RLBenzene < 0.00300 mg/Kg 0.01 Toluene 0.01 < 0.00300 mg/Kg Ethylbenzene < 0.00400 mg/Kg 0.01 Xylene < 0.0140 mg/Kg 0.01

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		1.10	mg/Kg	1	1.00	110	70 - 130
4-Bromofluorobenzene (4-BFB)		1.13	mg/Kg	1	1.00	113	70 - 130

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

QC Batch:

Prep Batch: 39479

Date Analyzed: QC Preparation: 2008-02-22

2008-02-22

Analyzed By: LD

Prepared By: LD

•	LCS			Spike	Matrix		Rec.
Param .	Result	Units	Dil.	Amount	Result	Rec.	Limit
DRO	218	mg/Kg	1	<b>25</b> 0	<14.6	87	48.1 - 140.9

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

2008-00026

Work Order: 8022142 **Hugh Station Receiver**  Page Number: 7 of 10 SE of Eunice, NM

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
DRO	210 .	mg/Kg	1	250	<14.6	84	48.1 - 140.9	4	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	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
n-Triacontane	89.5	84.0	mg/Kg	1	100	90	84	42.1 - 138.9

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

QC Batch: Prep Batch: 39553

45944

Date Analyzed: QC Preparation: 2008-02-25

2008-02-25

Analyzed By: DC Prepared By: DC

	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
GRO	8.86	mg/Kg	1	10.0	0.69	82	70 - 130

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

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
GRO	8.88	mg/Kg	1	10.0	0.69	82	70 - 130	0	

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)	0.999	0.993	mg/Kg	1	1.00	100	99	70 - 130
4-Bromofluorobenzene (4-BFB)	1.07	1.07	mg/Kg	1	1.00	107	107	70 - 130

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

QC Batch:

45946 Prep Batch: 39553 Date Analyzed: QC Preparation: 2008-02-25

2008-02-25

Analyzed By: DC Prepared By: DC

	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
Benzene	1.09	mg/Kg	1	1.00	< 0.00300	109	70 - 130
Toluene	1.11	mg/Kg	1	1.00	< 0.00300	111	70 - 130
Ethylbenzene	1.12	mg/Kg	1	1.00	< 0.00400	112	70 - 130
Xylene	3.35	mg/Kg	1	3.00	< 0.0140	112	70 - 130

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	< 0.00300	109	70 - 130	0	20
Toluene	1.11	mg/Kg	1	1.00	< 0.00300	111	70 - 130	0	20
Ethylbenzene	1.12	mg/Kg	1	1.00	< 0.00400	112	70 - 130	0	20
Xylene	3.36	mg/Kg	1	3.00	< 0.0140	112	70 - 130	0	20

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

2008-00026

Work Order: 8022142 Hugh Station Receiver Page Number: 8 of 10 SE of Eunice, NM

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.10	1.09	mg/Kg	1	1.00	110	109	70 - 130
4-Bromofluorobenzene (4-BFB)	1.14	1.15	mg/Kg	1	1.00	114	115	70 - 130

Matrix Spike (MS-1) Si	Mat	rix S	pike	(MS-1	) S	ρi
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Spiked Sample: 151379

QC Batch: 45852 Date Analyzed:

2008-02-22

Analyzed By: LD

Prep Batch: 39479

QC Preparation:

2008-02-22

Prepared By: LD

	MS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
DRO	186	mg/Kg	1	250	<14.6	74	35.6 - 173.6

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	Result	Rec.	Limit	RPD	Limit
DRO	182	mg/Kg	1	250	<14.6	73	35.6 - 173.6	2	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	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
n-Triacontane	75.6	74.8	mg/Kg	1	100	76	75	33 - 156.2

#### Matrix Spike (MS-1)

Spiked Sample: 151257

QC Batch: 45944 Prep-Batch: -- 39553Date Analyzed: QC-Preparation: 2008-02-25

2008-02-25

Analyzed By: DC Prepared By: DC

	,	MS			Spike	Matrix		Rec.
Param		Result	Units	Dil.	Amount	Result	Rec.	Limit
GRO	1	4.28	mg/Kg	1	10.0	< 0.0118	43	70 - 130

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	Result	Rec.	Limit	RPD	Limit
GRO	2	12.7	mg/Kg	1	10.0	< 0.0118	127	70 - 130	99	

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) 4-Bromofluorobenzene (4-BFB)	0.880	0.888 1.05	mg/Kg mg/Kg	1 1	1 1	88 100	89 105	70 - 130 70 - 130

#### Matrix Spike (MS-1) Spiked Sample: 151575

QC Batch: 45946 Prep Batch: 39553

Date Analyzed: QC Preparation: 2008-02-25

2008 - 02 - 25

Analyzed By: DC Prepared By: DC

1 Matrix spike recoveries out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.

 $^2$ MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.

2008-00026

Work Order: 8022142 Hugh Station Receiver Page Number: 9 of 10 SE of Eunice, NM

Param		MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	3	1.73	mg/Kg	1	1.00	< 0.00300	173	70 - 130
Toluene	4	1.78	mg/Kg	1	1.00	< 0.00300	178	70 - 130
Ethylbenzene	5	1.86	mg/Kg	1	1.00	< 0.00400	186	70 - 130
Xylene	6	5.63	mg/Kg	1	3.00	< 0.0140	188	70 - 130

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	Result	Rec.	Limit	RPD	Limit
Benzene	7	1.80	mg/Kg	1	1.00	< 0.00300	180	70 - 130	4	20
Toluene	8	1.87	mg/Kg	1	1.00	< 0.00300	187	70 - 130	5	20
Ethylbenzene	9	1.96	mg/Kg	1	1.00	< 0.00400	196	70 - 130	5	20
Xylene	10	5.92	mg/Kg	1	3.00	< 0.0140	197	70 - 130	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)	1.09	1.09	mg/Kg	1	1	109	109	70 - 130
4-Bromofluorobenzene (4-BFB)	1.14	1.15	${ m mg/Kg}$	1	1	114	115	70 - 130

#### Standard (ICV-1)

QC Batch: 45852

Date Analyzed: 2008-02-22

Analyzed By: LD

			ICVs	<b>ICVs</b>	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		mg/Kg	250	250	100	85 - 115	2008-02-22

#### Standard (CCV-1)

QC Batch: 45852

Date Analyzed: 2008-02-22

Analyzed By: LD

			CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		mg/Kg	250	224	90	85 - 115	2008-02-22

#### Standard (ICV-1)

QC Batch: 45944

Date Analyzed: 2008-02-25

Analyzed By: DC

<sup>&</sup>lt;sup>3</sup>Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.

<sup>&</sup>lt;sup>4</sup>Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.

<sup>&</sup>lt;sup>5</sup>Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control. <sup>6</sup>Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.

<sup>&</sup>lt;sup>7</sup>Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.

Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.

8 Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.

<sup>&</sup>lt;sup>9</sup>Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.
<sup>10</sup>Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.

Work Order: 8022142 Hugh Station Receiver Page Number: 10 of 10 SE of Eunice, NM

		•	ICVs True	ICVs Found	ICVs Percent	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		mg/Kg	1.00	1.08	108	85 - 115	2008-02-25

#### Standard (CCV-1)

OC	Batch:	45944
$\omega$	Daucii.	10311

Date Analyzed: 2008-02-25

Analyzed By: DC

			CCVs	CCVs	CCVs	Percent	
			$\operatorname{True}$	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		mg/Kg	1.00	1.12	112	85 - 115	2008-02-25

#### Standard (ICV-1)

QC Batch: 45946

Date Analyzed: 2008-02-25

Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.107	107	85 - 115	2008-02-25
Toluene	•	mg/Kg	0.100	0.110	110	85 - 115	2008-02-25
Ethylbenzene		mg/Kg	0.100	0.114	114	85 - 115	2008-02-25
Xylene		mg/Kg	0.300	0.343	114	85 - 115	2008-02-25

### Standard (CCV-1)

QC Batch: 45946	Date Analyzed:	2008-02-25
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Analyzed By: DC

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.113	113	85 - 115	2008-02-25
Toluene		mg/Kg	0.100	0.114	114	85 - 115	2008-02-25
Ethylbenzene		mg/Kg	0.100	0.114	114	85 - 115	2008-02-25
Xylene		mg/Kg	0.300	0.344	115	85 - 115	2008-02-25

APPENDIX B: Release Notification and Corrective Action (Form C-141) District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenuc, 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

-			Rele	ease Notific	ation	and Co	rrective A	ction				
						OPER/	TOR	x Ini	tial Report		Final Repor	
						nille Reynolds						
		Hwy 82, Lov		NM 88260			No. 505-441-09					
Facility Na	ne Hugh S	Station Recei	ver			Facility Typ	e Receiver trap	at Station				
Surface Owner Kennan Mineral Owner					)wner			Lease	No.			
				LOCA	TION	OF RE	LEASE					
Unit Letter G	Section 14	Township 22S	Range 37E	Feet from the		************	Feet from the	East/West Line	County Lea			
	<del></del>	Latitud	e_32° 23	3' 42.0"	·	Longitude	2 103° 07' 54.0	<u> </u>				
				NAT	URE	OF RELI	EASE					
Type of Rele							Release 740 barr			Recovered 705 barrels		
Source of Ro	lease Ball v	alve on receiv	cr trap			1 .	lour of Occurrence		d Hour of Di		r	
Was Immedia	ete Notice (	Given?				01/23/2008 If YES, To			008@09:00		Town pines	
Was Immediate Notice Given?  X Yes No Not Required					Pat Richard	ds		HE!	, <del>j.</del> ,			
By Whom? C							lour 01/23/2008 (					
Was a Watercourse Reached?  ☐ Yes ☑ No					If YES, Volume Impacting the Watercourse. JAN 2 9 2008							
inch steel gat	hering line	that produces:	approxima	Taken 2-inch steately 1,935 barrels	s of oil p	valve on receiver day. The p	ver trap split caus pressure on the lir	sing a release of s ne is approximate	weet crude of Iy 80 psi and	il. The I the gra	line is a 4-	
			·		, ppm.			,				
								Ş				
Describe Area	Affected a	and Cleanup A	ction Tak	en.* Aerial extent	of surfa	ce impact wa	s approximately	10,000 ft².				
regulations all public health of should their of	operators of the covir perations harmont. In a	are required to conment. The ave failed to a ddition, NMO	report an acceptance dequately CD accept	is true and complet/or file certain received a C-141 repointment of a C-141 reaction of a C-141 reaction.	lease no rt by the mediate	tifications an NMOCD ma contamination	d perform correct trked as "Final Re on that pose a thre	tive actions for re sport" does not re at to ground wat	leases which lieve the ope er, surface w	may energines in may en erator of ater, hu	ndanger Hiability man health	
Signature:						OIL CONSERVATION DIVISION  Approved by District Supervisor:						
Printed Name: Camille Reynolds					represent by Matter Duportison.							
Title: Remedia	ation Coord	linator			^_^	pproval Date	):	Expiration	Date:			
E-mail Addres		ds@paalp.com				Conditions of	Approval:		Attached			
Date: 01/29/20	ነበደ			Phone: 505_441_0	965 I				1		i	

\* Attach Additional Sheets If Necessary

RP#1766