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 Daniel Bryant
Address 3112 W. US Hwy 82, Lovington, NM 88260	Telephone No. (505) 441-0965
Facility Name Hugh Station Receiver	Facility Type Receiver trap at Station

Surface Owner Kennan	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
G	14	22S	37E					Lea

Latitude N 32° 23' 42.0" **Longitude** W 103° 07' 54.0"

30-025-24637

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 740 bbls	Volume Recovered 705 bbls
Source of Release Ball valve on receiver trap	Date and Hour of Occurrence 1/23/2008 08:45	Date and Hour of Discovery 1/23/2008 09:00
Was Immediate Notice Given? ☐ Yes ☒ No ☐ Not Required	If YES, To Whom? Pat Richards	
By Whom? Camille Bryant	Date and Hour 1/23/2008	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

RECEIVED
MAY 08 2008
HOBBS OCD

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
2-inch steel ball valve on receiver split causing a release of crude oil. The line is a 4-inch steel gathering line that produces approximately 1,935 bbls of oil per day. The pressure on the line is approximately 80 psi and the gravity of the sweet crude is 38.2. The sweet crude has an H_2S content of <10 ppm.

Describe Area Affected and Cleanup Action Taken.*

Please see the Nova Safety and Environmental Site Closure Request Report dated April 2008 for details of the remedial activities conducted for soil closure 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: Camille Bryant	OIL CONSERVATION DIVISION
Printed Name: Camille Bryant	Approved by District Supervisor: Johnson
Title: Remediation Coordinator	ENVIRONMENTAL ENGINEER
E-mail Address: cjbryant@paalp.com	Approval Date: 5.8.08 Expiration Date: —
Date: 5/8/08 Phone: (505) 441-0965	Conditions of Approval: Attached ☐

* Attach Additional Sheets If Necessary

IRP #1766

f COH08130365558

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

NOVA
safety and environmental

Prepared by:

NOVA Safety and Environmental
2057 Commerce Drive
Midland, Texas 79703

April 2008

Ronald K. Rounsaville
Project Manager

Todd K. Choban, P.G.
Vice President, Technical Services

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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

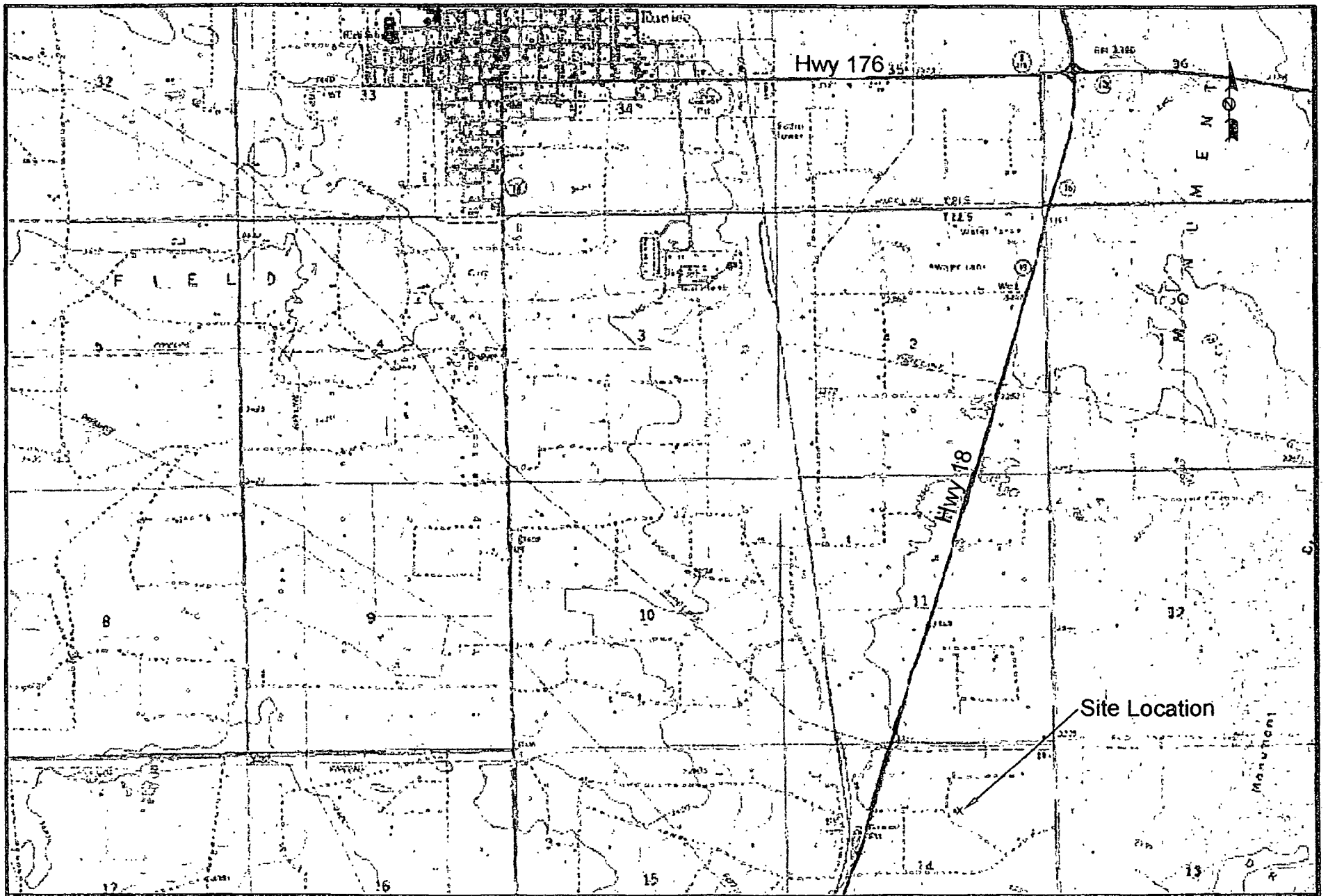
Copy 1:
Larry Johnson
New Mexico Oil Conservation Division (District 1)
1625 French Drive
Hobbs, NM 88240

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



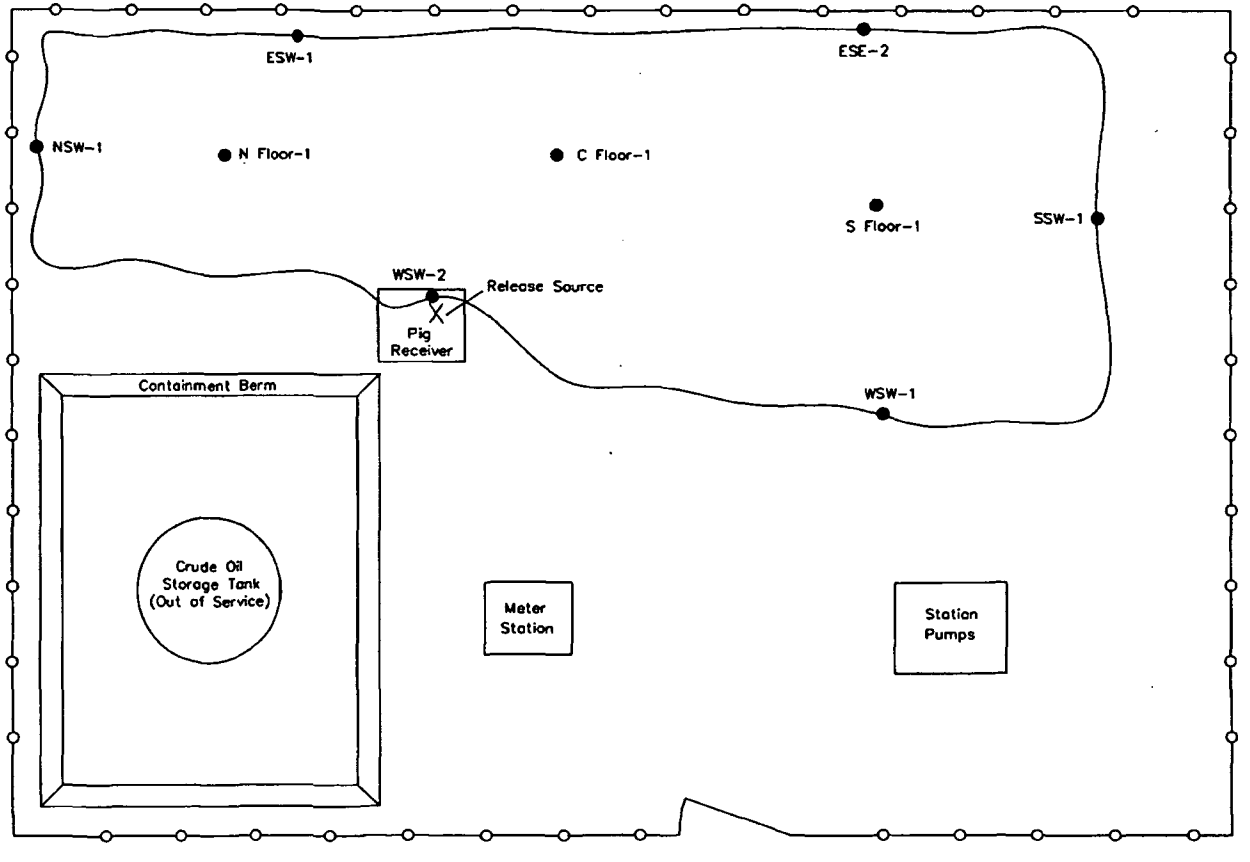
USGS Eunice (NM) Topo Map

Figure 1
Site Location
Map
Plains Pipeline, L.P.
Hugh Station Receiver
SRS# 2006-028
Eunice, New Mexico

NOVA Safety and Environmemntal

NOVA

Scale: 1" = 2500'	Prep By: CDS	Checked By: CDS
April 8, 2008		



Legend

- Excavation Extents
- Station Fence
- Sample Point

40 20 0 20 40

Distance in Feet

Figure 2
Site Map
Plains Pipeline, L.P.
Hugh Station Receiver
SRS# 2008-00026
RP # 1766
Lea County, NM

NOVA Safety and Environmental

NOVA safety and environmental

Scale 1"=40 feet	Prep By CDS	Checked By CDS
February 28, 2008		

TABLES

TABLE 1

PLAINS PIPELINE, L.P.

Confirmation Soil Sample Analytical Results

HUGH STATION RECEIVER

Plains SRS # 2008-026

SAMPLE DATE	SAMPLE LOCATION	SAMPLE DEPTH	SOIL STATUS	Method SW-8015b			Method SW 846-8021b					SM 4500
				GRO C_6-C_{12} mg/Kg	DRO >C_{12}-C_{35} mg/Kg	Total TPH C_6-C_{35} mg/Kg	Benzene mg/Kg	Toluene mg/Kg	Ethylbenzene mg/Kg	Xylene mg/Kg	Total BTEX mg/Kg	Chloride mg/Kg
NMOCD REGULATORY 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	-
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	-

APPENDICES

APPENDIX A:
Laboratory Analytical Reports

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 | Lubbock, Texas 79424 | 800•378•1296 | 806•794•1296 | FAX 806•794•1298
200 East Sunset Road, Suite E | El Paso, Texas 79922 | 915•585•3443 | 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

Analytical and Quality Control Report

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

Report Date: February 5, 2008

Work Order: 8013012

Project Location: SE of Eunice, NM
Project Name: 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.

Sample	Description	Matrix	Date Taken	Time Taken	Date 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(es) in which your sample(s) were analyzed.

Dr. Blair Leftwich, Director

Standard Flags

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

Analytical Report

Sample: 149206 - S Floor-1

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	45228	Date Analyzed:	2008-01-30	Analyzed By:	DC
Prep Batch:	38890	Sample Preparation:	2008-01-30	Prepared By:	DC

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)		0.997	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

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	45139	Date Analyzed:	2008-01-30	Analyzed By:	LD
Prep Batch:	38863	Sample Preparation:	2008-01-30	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		137	mg/Kg	1	100	137	39.1 - 137.7

Sample: 149206 - S Floor-1

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	45155	Date Analyzed:	2008-01-30	Analyzed By:	DC
Prep Batch:	38890	Sample Preparation:	2008-01-30	Prepared By:	DC

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)		0.917	mg/Kg	1	1.00	92	70 - 130
4-Bromofluorobenzene (4-BFB)		0.922	mg/Kg	1	1.00	92	70 - 130

Sample: 149207 - N Floor-1

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	45228	Date Analyzed:	2008-01-30	Analyzed By:	DC
Prep Batch:	38890	Sample Preparation:	2008-01-30	Prepared By:	DC

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)		1.00	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	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	45139	Date Analyzed:	2008-01-30	Analyzed By:	LD
Prep Batch:	38863	Sample Preparation:	2008-01-30	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		51.7	mg/Kg	1	100	52	39.1 - 137.7

Sample: 149207 - N Floor-1

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	45155	Date Analyzed:	2008-01-30	Analyzed By:	DC
Prep Batch:	38890	Sample Preparation:	2008-01-30	Prepared By:	DC

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)		0.908	mg/Kg	1	1.00	91	70 - 130
4-Bromofluorobenzene (4-BFB)		0.914	mg/Kg	1	1.00	91	70 - 130

Sample: 149208 - NSW-1

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	45228	Date Analyzed:	2008-01-30	Analyzed By:	DC
Prep Batch:	38890	Sample Preparation:	2008-01-30	Prepared By:	DC

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)		0.994	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	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	45139	Date Analyzed:	2008-01-30	Analyzed By:	LD
Prep Batch:	38863	Sample Preparation:	2008-01-30	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		134	mg/Kg	1	100	134	39.1 - 137.7

Sample: 149208 - NSW-1

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	45155	Date Analyzed:	2008-01-30	Analyzed By:	DC
Prep Batch:	38890	Sample Preparation:	2008-01-30	Prepared By:	DC

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)		0.907	mg/Kg	1	1.00	91	70 - 130
4-Bromofluorobenzene (4-BFB)		0.911	mg/Kg	1	1.00	91	70 - 130

Sample: 149209 - ESW-1

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	45229	Date Analyzed:	2008-01-31	Analyzed By:	DC
Prep Batch:	38890	Sample Preparation:	2008-01-30	Prepared By:	DC

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	70 - 130
4-Bromofluorobenzene (4-BFB)		0.981	mg/Kg	1	1.00	98	70 - 130

Sample: 149209 - ESW-1

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	45139	Date Analyzed:	2008-01-30	Analyzed By:	LD
Prep Batch:	38863	Sample Preparation:	2008-01-30	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		123	mg/Kg	1	100	123	39.1 - 137.7

Sample: 149209 - ESW-1

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	45227	Date Analyzed:	2008-01-31	Analyzed By:	DC
Prep Batch:	38890	Sample Preparation:	2008-01-30	Prepared By:	DC

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	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

Sample: 149210 - WSW-1

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	45229	Date Analyzed:	2008-01-31	Analyzed By:	DC
Prep Batch:	38890	Sample Preparation:	2008-01-30	Prepared By:	DC

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)		0.991	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:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	45139	Date Analyzed:	2008-01-30	Analyzed By:	LD
Prep Batch:	38863	Sample Preparation:	2008-01-30	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		134	mg/Kg	1	100	134	39.1 - 137.7

Sample: 149210 - WSW-1

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	45227	Date Analyzed:	2008-01-31	Analyzed By:	DC
Prep Batch:	38890	Sample Preparation:	2008-01-30	Prepared By:	DC

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)		0.902	mg/Kg	1	1.00	90	70 - 130
4-Bromofluorobenzene (4-BFB)		0.924	mg/Kg	1	1.00	92	70 - 130

Sample: 149211 - SSW-1

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	45229	Date Analyzed:	2008-01-31	Analyzed By:	DC
Prep Batch:	38890	Sample Preparation:	2008-01-30	Prepared By:	DC

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	70 - 130
4-Bromofluorobenzene (4-BFB)		0.975	mg/Kg	1	1.00	98	70 - 130

Sample: 149211 - SSW-1

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	45139	Date Analyzed:	2008-01-30	Analyzed By:	LD
Prep Batch:	38863	Sample Preparation:	2008-01-30	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		122	mg/Kg	1	100	122	39.1 - 137.7

Sample: 149211 - SSW-1

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	45227	Date Analyzed:	2008-01-31	Analyzed By:	DC
Prep Batch:	38890	Sample Preparation:	2008-01-30	Prepared By:	DC

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)		0.907	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	Date Analyzed:	2008-01-30	Analyzed By:	LD
Prep Batch:	38863	QC Preparation:	2008-01-30	Prepared By:	LD

Parameter	Flag	MDL Result	Units	RL
DRO		18.1	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		94.2	mg/Kg	1	100	94	33.3 - 157.4

Method Blank (1) QC Batch: 45155

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

Parameter	Flag	MDL Result	Units	RL
GRO		0.632	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.938	mg/Kg	1	1.00	94	70 - 130
4-Bromofluorobenzene (4-BFB)		0.936	mg/Kg	1	1.00	94	70 - 130

Method Blank (1) QC Batch: 45227

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

Parameter	Flag	MDL Result	Units	RL
GRO		0.596	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.920	mg/Kg	1	1.00	92	70 - 130
4-Bromofluorobenzene (4-BFB)		0.907	mg/Kg	1	1.00	91	70 - 130

Method Blank (1) QC Batch: 45228

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

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

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	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

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

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	117	137	mg/Kg	1	100	117	137	42.1 - 138.9

Laboratory Control Spike (LCS-1)

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

continued ...

control spikes continued ...

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

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD 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 | Date Analyzed: 2008-01-31 | Analyzed By: DC
Prep Batch: 38890 | QC Preparation: 2008-01-30 | Prepared By: DC

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	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
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 | Date Analyzed: 2008-01-30 | Analyzed By: DC
Prep Batch: 38890 | QC Preparation: 2008-01-30 | Prepared By: DC

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

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.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD 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 | Date Analyzed: 2008-01-31 | Analyzed By: DC
Prep Batch: 38890 | QC Preparation: 2008-01-30 | Prepared By: DC

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

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD 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 | Date Analyzed: 2008-01-30 | Analyzed By: LD
Prep Batch: 38863 | QC Preparation: 2008-01-30 | Prepared By: LD

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

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

Surrogate		MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD 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 | Date Analyzed: 2008-01-30 | Analyzed By: DC
Prep Batch: 38890 | QC Preparation: 2008-01-30 | Prepared By: DC

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

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	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 | Date Analyzed: 2008-01-31 | Analyzed By: DC
Prep Batch: 38890 | QC Preparation: 2008-01-30 | Prepared By: DC

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

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

[1]MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.
[2]High surrogate recovery due to peak interference.
[3]Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.
[4]Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

matrix spikes continued ...

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD 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 | Date Analyzed: 2008-01-30 | Analyzed By: DC
Prep Batch: 38890 | QC Preparation: 2008-01-30 | Prepared By: DC

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	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 | Date Analyzed: 2008-01-31 | Analyzed By: DC
Prep Batch: 38890 | QC Preparation: 2008-01-30 | Prepared By: DC

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

matrix spikes continued ...

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

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

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date 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

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date 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

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date 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

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.02	102	85 - 115	2008-01-30

Standard (CCV-1)

QC Batch: 45155 Date Analyzed: 2008-01-30 Analyzed By: DC

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.11	111	85 - 115	2008-01-30

Standard (ICV-1)

QC Batch: 45227 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
GRO		mg/Kg	1.00	0.982	98	85 - 115	2008-01-31

Standard (CCV-1)

QC Batch: 45227 Date Analyzed: 2008-01-31 Analyzed By: DC

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.962	96	85 - 115	2008-01-31

Standard (ICV-1)

QC Batch: 45228 Date Analyzed: 2008-01-30 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	0.0910	91	85 - 115	2008-01-30
Toluene		mg/Kg	0.100	0.0887	89	85 - 115	2008-01-30
Ethylbenzene		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

Standard (CCV-1)

QC Batch: 45228 Date Analyzed: 2008-01-30 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	0.0963	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

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date 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

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Project #: 2008-000026 Project Name: HUGH STATION RECEIVED
Project Location (including state): SE OF EUNICE, NM 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
296	5FLOOR-1	1	40z		X							X		1/28	15:00	X		X															
297	NFLOOR-1	1	40z		X							X		1/28	15:05	X		X															
298	NSW-1	1	40z		X							X		1/29	13:00	X		X															
299	ESW-1	1	40z		X							X		1	13:05	X		X															
210	WSW-1	1	40z		X							X		1	13:10	X		X															
211	SSW-1	1	40z		X							X		1	13:15	X		X															

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°c:
[signature]	NOVA	1/30/08	8:35	[signature]	NOVA	1/30/08	835	
[signature]		1/30/08		[signature]	TRACE	1/30/08	8:40	3.1°C

LAB USE ONLY: Intact Y / N; Headspace Y / N / NA; 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 # Courier in

ORIGINAL COPY

TraceAnalysis, Inc.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
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6015 Harris Parkway, Suite 110 Ft Worth, Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

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
Project Name: 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.

Sample	Description	Matrix	Date Taken	Time Taken	Date 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.

Blair Leftwich

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 2008-01-30 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.

Analytical Report

Sample: 149213 - WSW-1

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	45163	Date Analyzed:	2008-01-31	Analyzed By:	AR
Prep Batch:	38896	Sample Preparation:	2008-01-31	Prepared By:	AR

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

Method Blank (1) QC Batch: 45163

QC Batch:	45163	Date Analyzed:	2008-01-31	Analyzed By:	AR
Prep Batch:	38896	QC Preparation:	2008-01-30	Prepared By:	AR

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

Laboratory Control Spike (LCS-1)

QC Batch:	45163	Date Analyzed:	2008-01-31	Analyzed By:	AR
Prep Batch:	38896	QC Preparation:	2008-01-30	Prepared By:	AR

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	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	Analyzed By:	AR
Prep Batch:	38896	QC Preparation:	2008-01-30	Prepared By:	AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	5030	mg/Kg	50	5000	<25.0	101	85 - 115

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
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

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date 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

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

LAB Order ID # 8013014 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
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6015 Harris Pkwy., Suite 110, Ft. Worth, Texas 76132, Tel (817) 201-5260

Company Name: NOVA SAFETY & ENVIRONMENTAL Phone #: 432-570-7720
Address: (Street, City, Zip) 2057 COMMERCE MIDLAND 79703 Fax #: 432-570-7701
Contact Person: CURT STANLEY E-mail: JLOUKE@NOVATRAINING.COM
Invoice to: (If different from above) PLAINS
Project #: 2008-000210 Project Name: HUGH STATION RECEIVER
Project Location (including state): SE OF EUNICE NM Sampler Signature:

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
348213	WSW-1	1	4oz		X							X		1/29/2008	13:10

ANALYSIS REQUEST (Circle or Specify Method No.)

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	CHLORIDES					Turn Around Time if different from standard	Hold
																	X						

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
NOVA	1/30/08	8:35	Rebecca Haskell	1/30/08	835
Rebecca Haskell	1/30/08				
			Received at Laboratory by: C. O'M.	1/30/08	8:40

LAB USE ONLY
Intact (Y) / N
Headspace Y / N
Temp 3.1 °
Log-in-Review

REMARKS: All tests - Midland

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

Carrier # Courier

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

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TraceAnalysis, Inc.

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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

Analytical and Quality Control Report

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

Report Date: February 27, 2008

Work Order: 8022142

Project Location: SE of Eunice, NM
Project Name: 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.

Sample	Description	Matrix	Date Taken	Time Taken	Date 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	S 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.

Analytical Report

Sample: 151379 - WSW-2

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

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)		1.06	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	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	45852	Date Analyzed:	2008-02-22	Analyzed By:	LD
Prep Batch:	39479	Sample Preparation:	2008-02-22	Prepared By:	LD

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

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

Sample: 151379 - WSW-2

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	45944	Date Analyzed:	2008-02-25	Analyzed By:	DC
Prep Batch:	39553	Sample Preparation:	2008-02-25	Prepared By:	DC

Parameter	Flag	Result	RL	Units	Dilution	RL
GRO	B	**1.03**		mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	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

Sample: 151380 - C FLOOR-1

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

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)		1.06	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	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	45852	Date Analyzed:	2008-02-22	Analyzed By:	LD
Prep Batch:	39479	Sample Preparation:	2008-02-22	Prepared By:	LD

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

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

Sample: 151380 - C FLOOR-1

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	45944	Date Analyzed:	2008-02-25	Analyzed By:	DC
Prep Batch:	39553	Sample Preparation:	2008-02-25	Prepared By:	DC

Parameter	Flag	Result	RL	Units	Dilution	RL
GRO	B	**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

Sample: 151381 - ESW-2

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

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)		1.07	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	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	45852	Date Analyzed:	2008-02-22	Analyzed By:	LD
Prep Batch:	39479	Sample Preparation:	2008-02-22	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		73.0	mg/Kg	1	100	73	39.1 - 137.7

Sample: 151381 - ESW-2

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	45944	Date Analyzed:	2008-02-25	Analyzed By:	DC
Prep Batch:	39553	Sample Preparation:	2008-02-25	Prepared By:	DC

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)		0.873	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	Analyzed By:	LD
Prep Batch:	39479	QC Preparation:	2008-02-22	Prepared By:	LD

Parameter	Flag	MDL Result	Units	RL
DRO		<14.6	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		51.2	mg/Kg	1	100	51	33.3 - 157.4

Method Blank (1) QC Batch: 45944

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

Parameter	Flag	MDL Result	Units	RL
GRO		0.690	mg/Kg	1

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 Date Analyzed: 2008-02-25 Analyzed By: DC
Prep Batch: 39553 QC Preparation: 2008-02-25 Prepared By: DC

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	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: 45852 Date Analyzed: 2008-02-22 Analyzed By: LD
Prep Batch: 39479 QC Preparation: 2008-02-22 Prepared By: LD

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	218	mg/Kg	1	250	<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.

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD 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: 45944 | Date Analyzed: 2008-02-25 | Analyzed By: DC
Prep Batch: 39553 | QC Preparation: 2008-02-25 | Prepared By: DC

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	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 | Date Analyzed: 2008-02-25 | Analyzed By: DC
Prep Batch: 39553 | QC Preparation: 2008-02-25 | Prepared By: DC

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

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) 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

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

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD 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 | Date Analyzed: 2008-02-25 | Analyzed By: DC
Prep Batch: 39553 | QC Preparation: 2008-02-25 | Prepared By: DC

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	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)	0.880	0.888	mg/Kg	1	1	88	89	70 - 130
4-Bromofluorobenzene (4-BFB)	0.999	1.05	mg/Kg	1	1	100	105	70 - 130

Matrix Spike (MS-1) Spiked Sample: 151575

QC Batch: 45946 | Date Analyzed: 2008-02-25 | Analyzed By: DC
Prep Batch: 39553 | QC Preparation: 2008-02-25 | 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.

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.

Param		MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	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	mg/Kg	1	1	114	115	70 - 130

Standard (ICV-1)

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

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date 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

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date 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

[3]Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.
[4]Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.
[5]Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.
[6]Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.
[7]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.
[9]Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.
[10]Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.

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

Standard (CCV-1)

QC Batch: 45944 Date Analyzed: 2008-02-25 Analyzed By: DC

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date 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 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

LAB Order ID # 0802142 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
6015 Harris Pkwy., Suite 110, Ft. Worth, Texas 76132, Tel (817) 201-5260

Company Name: NOVA SAFETY & ENVIRONMENTAL Phone #: 432-520-7720
Address: (Street, City, Zip) 2057 COMMERCE MIDLAND Fax #: 432-520-7701
Contact Person: CURT STANLEY E-mail: mcasbeer@novatraining.com
Invoice to: (If different from above) PLAINS
Project #: 2008-00026 Project Name: HUGH STATION RECEIVER
Project Location (including state): SE OF EUNICE, NM Sampler Signature: C. Stanley

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
15379	WSW-2	1	40z											2/21/2008	11:50	X	X																	
380	C FLOOR-1	↓	↓												11:55	↓	↓																	
381	ESW-2	↓	↓												12:00	↓	↓																	

Relinquished by: Date: Time: 2/21/08 16:21 Received by: Date: Time:
Relinquished by: Date: Time: Received by: Date: Time:
Relinquished by: Date: Time: Received at Laboratory by: Date: 2/21/08 Time: 16:21

LAB USE ONLY
Intact Y N
Headspace Y N
Temp 4.2 °C
Log-in-Review

REMARKS:

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

Carrier #

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

ORIGINAL COPY

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

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

x Initial Report ☐ Final Report

Name of Company Plains Pipeline	Contact Camille Reynolds
Address 3112 W. US Hwy 82, Lovington, NM 88260	Telephone No. 505-441-0965
Facility Name Hugh Station Receiver	Facility Type Receiver trap at Station

Surface Owner Kennan	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
G	14	22S	37E					Lea

Latitude 32° 23' 42.0" Longitude 103° 07' 54.0"

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 740 barrels	Volume Recovered 705 barrels
Source of Release Ball valve on receiver trap	Date and Hour of Occurrence 01/23/2008 @ 08:45	Date and Hour of Discovery 01/23/2008 @ 09:00
Was Immediate Notice Given? X Yes ☐ No ☐ Not Required	If YES, To Whom? Pat Richards	
By Whom? Camille Reynolds	Date and Hour 01/23/2008 @ 12:30	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

RECEIVED
JAN 29 2008
HOBBS OCD

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken 2-inch steel ball valve on receiver trap split causing a release of sweet crude oil. The line is a 4-inch steel gathering line that produces approximately 1,935 barrels of oil per day. The pressure on the line is approximately 80 psi and the gravity of the sweet crude oil is 38.2 The sweet crude has an H_2S content of <10 ppm.

Describe Area Affected and Cleanup Action Taken.* Aerial extent of surface impact was approximately 10,000 ft^2.

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: Camille Reynolds	OIL CONSERVATION DIVISION	
Printed Name: Camille Reynolds	Approved by District Supervisor:	
Title: Remediation Coordinator	Approval Date:	Expiration Date:
E-mail Address: cjreynolds@paalp.com	Conditions of Approval:	Attached ☐
Date: 01/29/2008 Phone:505-441-0965		

* Attach Additional Sheets If Necessary

RP# 1766