1R - 97

REPORTS

DATE:

4/18/2005

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

Mark E. Fesmire, P.E.
Director
Oil Conservation Division

April 18, 2005

Ms. Camille Reynolds
Plains Marketing, L.P.
3112 West Highway 82
Lovington, NM 88260

Re: Final Closure Request
Plains Pipeline TNM-98-SO1 Site
NW/4 NW/4 Section 20, T-19S, R-37E
Lea County New Mexico
NMOCD Ref. #1R-0097

Dear Ms. Reynolds:

The New Mexico Oil Conservation Division (NMOCD) has received and reviewed the report shown above. Closure of this site is approved and no further action is required.

NMOCD approval does not relieve Plains Marketing, L.P. (Plains) of liability should its investigation and remediation activities at this site prove to have been inadequate in assessing the environmental impact at the site or if it proves to have been harmful to public health or the environment. Nor does it relieve Plains of its responsibility to comply with the rules and regulations of any other federal, state, county, or local governmental agency.

If you have any questions, contact me at (505) 476-3492 or emartin@state.nm.us

NEW MEXICO OIL CONSERVATION DIVISION

Ed Martin

Edwin E. Martin
Environmental Bureau

cc: NMOCD, Hobbs

PLAINS PIPELINE

April 5, 2005

Mr. Ed Martin
New Mexico Oil Conservation Division
Environmental Bureau
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: Plains All American Pipeline Closure Request
TNM 98-SO1 Release Site
Section 20, T19S, R37E
Lea County, New Mexico

1R-097

Dear Mr. Martin:

Please find attached for your approval the Closure Request, dated March 31 2005, for the TNM 98-SO1 site located in Section 20 of Township 19 South, and Range 37 East of Lea County, New Mexico. The Closure Request details site activities conducted to satisfy requirements set forth by the NMOCD for closure of the site.

Should you have any questions or comments, please contact me at (505) 441-0965.

Sincerely,

Camille Reynolds

Camille Reynolds
Remediation Coordinator
Plains All American Pipeline

cc: Larry Johnson, NMOCD, Hobbs Office

Enclosure

March 31, 2005

Mr. Ed Martin
New Mexico Energy, Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

Re: Final Closure Request
Plains TNM-98-S01
NW ¼, NW ¼, Section 20, T-19-S, R-37-E
Lea County, NM

Dear Mr. Martin,

NOVA Safety and Environmental (NOVA), on behalf of Plains Marketing, L.P. (Plains) submits the following request for final site closure at the Plains TNM-98-S01 leak site in the NW ¼, NW ¼, Section 20, T-19-S, R-37E in Lea County, New Mexico. A site location map is provided as Attachment 1.

A request for closure was submitted by Beth Aldrich of Environmental Technology Group, Inc. (ETGI) to Mr. Bill Olson of the NMOCD on September 21, 2000. Mr. Olson responded to the request on October 30, 2000 requesting a plan be submitted to the NMOCD to install a ground water monitor well directly adjacent to and down gradient from the excavated area. A site map is provided as Attachment 2. Mr. Olson further stated that if a one time sample (soil and groundwater) from this area is below the standards of OCD Rule 19.B, the NMOCD will issue closure approval for the site. Please see letter from Mr. Bill Olson provided as Attachment 3.

Subsequent to this correspondence, landowner issues resulted in EOTT, then Link Energy and subsequently Plains consultants being denied access to the site. During the fall of 2004 landowner issues were resolved and NOVA was allowed access to the leak site. On November 22, 2004, NOVA on behalf of Plains, prepared a monitor well drilling plan to address the requirements for closure requested by Mr. Olson in his letter of October 30, 2000.

On December 4, 2004, an additional monitor well (MW-4) was installed at the site adjacent to and down gradient from of the release as requested by the NMOCD. See Attachment 2 for location of monitor well. The monitor well was drilled to a depth of 30 feet bgs.

Soil samples were obtained utilizing single-use, disposable, latex gloves at 5 foot intervals. Representative soil samples were divided into two separate portions using clean, disposable gloves and clean sampling tools. One portion of the soil sample was placed in a disposable sample bag. The bag was labeled and sealed for headspace

analysis using a photoionization detector (PID) calibrated to a 100-ppm isobutylene standard. Each sample was allowed to volatilize for approximately thirty minutes at ambient temperature prior to conducting the analysis.

The other portion of the soil sample was placed in a sterile glass container equipped with a Teflon-lined lid furnished by the analytical laboratory. The container was filled to capacity to limit the amount of headspace present. Each container was labeled and placed on ice in an insulated cooler. Upon selection of samples for analysis, the cooler was sealed for shipment to the laboratory. Proper chain-of-custody documentation was maintained throughout the sampling process.

Selected soil samples were delivered to TraceAnalysis, in Lubbock, Texas. Soil samples were submitted for laboratory analysis of benzene, toluene, ethylbenzene and xylene (BTEX) as well as total petroleum hydrocarbons (TPH) gasoline range organics and diesel range organics (TPH-GRO/DRO) analyses using the methods described below. All samples were analyzed within approved holding times following the collection date.

- BTEX concentrations in accordance with EPA Method 8021B/5030
- TPH concentrations in accordance with modified EPA Method 8015M GRO/DRO;

Four different lithologies were observed during the drilling of the monitor well. From the surface to 5 feet bgs brown sandy moist clay was encountered. A PID reading of 4.6 ppm was observed from this sample. From 5 feet to 15 feet bgs brown sandy clay with grey caliche fragments was encountered. PID readings ranged from 4.1 to 6.8 ppm in these samples. From 15 feet to 18 feet bgs grey sandy clay was encountered. A PID reading of 2.3 ppm was observed in this sample. From 18 feet to 30 feet bgs red sandy clay with gravel and caliche fragments was encountered. PID readings ranged from 2.6 to 3.9 ppm in these samples.

Two soil samples were selected for laboratory analysis. The first soil sample (15 feet bgs) was collected immediately above the groundwater interface. The analytical results of this soil sample indicated that the soils were below NMOCD cleanup levels. A second unsaturated soil sample was collected immediately below the groundwater interface at 16 feet bgs and selected for analysis. Field observations indicated a dark clay interval at this depth exhibited signs of being septic in nature. Laboratory results confirmed that this dark clay interval was not hydrocarbon impacted.

Results of laboratory analysis of the soil samples are summarized in Table 1 and provided as Attachment 4, and the soil laboratory reports are provided as Attachment 5.

The monitor well was completed with 20 feet of screen allowing 5 feet of screen above the observed groundwater level and 15 feet below the groundwater level. A gravel pack was set 3 feet above the top of the screened interval and a 5 foot bentonite plug was placed above the gravel pack, as requested in Mr. Olson's letter. A monitor well boring diagram is provided as Attachment 6.

The monitor well was developed and the groundwater was sampled for analysis on December 10, 2004 using established collection and laboratory protocol. The results of the analysis of the groundwater sample indicated BTEX concentrations below laboratory method detection limits. On December 8, 2004, previously installed monitor wells (MW-1, MW-2 and MW-3) were sampled and submitted for analysis to TraceAnalysys, Inc during regularly scheduled quarterly sampling. The results of the groundwater sampling at these wells indicated that BTEX concentrations were below laboratory detection limits, confirming that groundwater is no longer impacted at the TNM-98-S01 former leak site. A table summarizing the groundwater results is provided as Attachment 7 and Groundwater laboratory results are provided as Attachment 8.

Based on the results of these groundwater sampling events and having satisfied the requirements set forth by Mr. Bill Olson's letter of December 30, 2000, Plains is requesting full closure of this site at this time. The monitor wells will be plugged by a licensed water well driller and the surface will be returned to its original contour and reseeded. The original Form C-141 is provided as Attachment 9.

Sincerely,

Curt Stanley

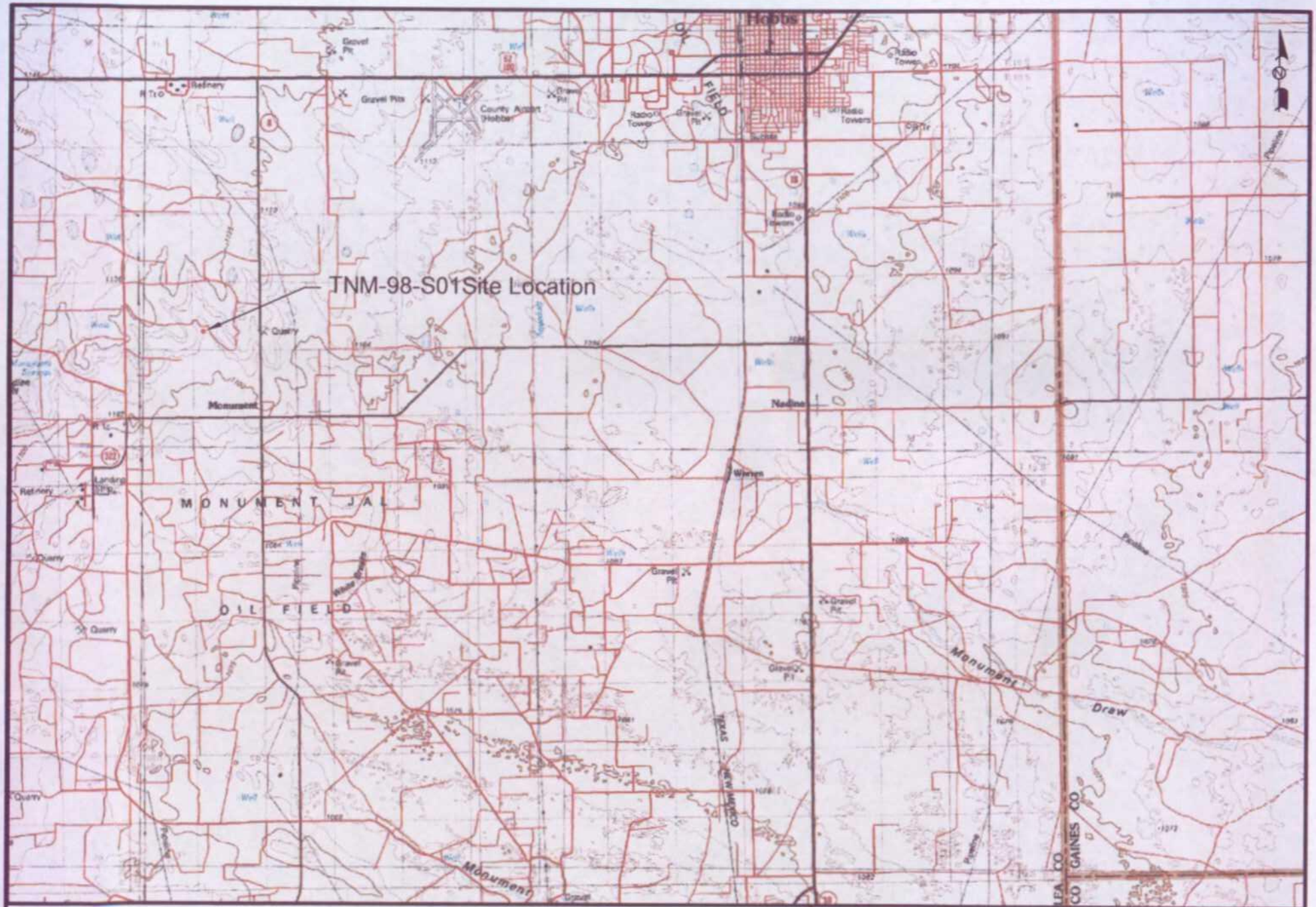
Curt Stanley
Project Manager
NOVA Safety and Environmental

Cc:
Paul Sheeley and Larry Johnson, NMOCD, Hobbs, NM
Camille Reynolds, Plains Marketing, L.P., Lovington, NM
cjreynolds@paalp.com
Jeff Dann, Plains Marketing, L.P., Houston, TX
jpdann@paalp.com
NOVA Safety and Environmental, Midland, TX
cstanley@novatraining.cc

Attachments:

Attachment #1 - Site Location Map
Attachment #2 – Site Map
Attachment #3 – Letter from Mr. Bill Olson, NMOCD
Attachment #4 - Table 1 – Soil Sample Analytical Results
Attachment #5 – Soil Laboratory Results
Attachment #6 – MW-4 Boring Log
Attachment #7 – Table 2 – Groundwater Analytical Results
Attachment #8 – Groundwater Laboratory Results
Attachment #9 – Form C-141 – Release Notification and Corrective Action

Attachment 1



NW1\4, NW1\4, Section 20, T19S, R37E

6 3 0 3 6

Distance in Miles

Attachment 1
Site Location Map

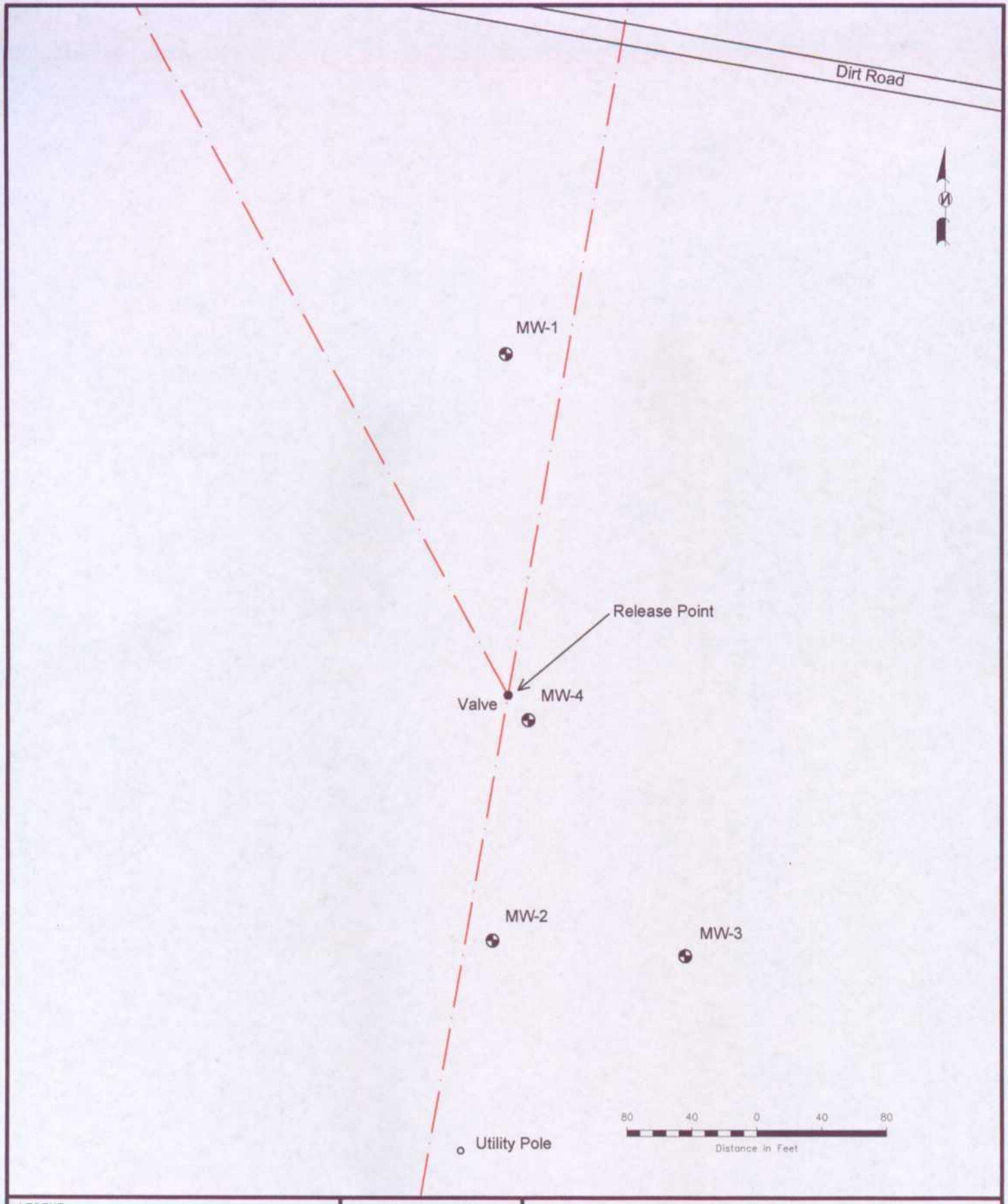
Plains Marketing, L.P.
TNM-98-S01
Lea County, NM

NOVA Safety and Environmental

NOVA safety and environmental

February 5, 2005	Scale: 1" = 6 Miles	Prep By: CDS	
		Checked By: TKC	

Attachment 2



LEGEND:

Pipeline

Monitor Well Location

NW 1/4, NW 1/4, Sec. 20, T19S, R37E
N 32° 38' 34.3" W 103° 16' 48.7"

Attachment 2

Site Map

Plains Marketing, L.P.

TNM-98S-01

Lea County, NM

NOVA Safety and Environmental

NOVA safety and environmental

Scale: 1" = 200'	CAD by: CDS	Prepared By: CDS
February 5, 2005		

Attachment 3

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

ARY E. JOHNSON
Governor
nnifer A. Salisbury
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

February 8, 2001

CERTIFIED MAIL
RETURN RECEIPT NO: 5051-4119

Mr. Glenn Waldrop
EOTT Energy Corporation
P.O. Box 1660
Midland, Texas 79702

RE: CASE # 1R0097
TNM-98S-01 LEAK SITE
LEA COUNTY, NEW MEXICO

Dear Mr. Waldrop:

The New Mexico Oil Conservation Division (OCD) has reviewed EOTT Energy Corporation's (EOTT) January 19, 2001 "REMEDIATION WORK PLAN, EOTT ENERGY CORP, TNM 98S-01, LEA COUNTY, NEW MEXICO" which was submitted on February 5, 2001 on behalf of EOTT by their consultant Environmental Technology Group, Inc. This document contains EOTT's work plan for installation of an additional ground water monitoring well at EOTT's TNM 98S-01 leak site located in the NW/4 NW/4 of Section 20, Township 19 South, Range 37 East, NMPM, Lea County, New Mexico.

The above-referenced work plan is approved with the following conditions:

1. EOTT shall complete the new monitor wells as follows:

   a. At least 15 feet of well screen shall be placed across the water table interface with 5 feet of the well screen above the water table and 10 feet of the well screen below the water table.

   b. An appropriately sized gravel pack shall be set in the annulus around the well screen from the bottom of the hole to 2-3 feet above the top of the well screen.

   c. A 2-3 foot bentonite plug shall be placed above the gravel pack.

   d. The remainder of the hole shall be grouted to the surface with cement containing 3-5% bentonite.

e. A concrete pad and locking well cover shall be placed at the surface.

All soil and ground water samples shall be obtained and analyzed using EPA approved methods and quality assurance/quality control (QA/QC).

All wastes generated during the investigation shall be disposed of at an OCD approved facility.

ase be advised that OCD approval does not relieve EOTT of responsibility should the estigation actions fail to adequately define the extent of contamination related to EOTT's ineline, or if contamination exists which is outside the scope of the work plan. In addition, CD approval does not relieve EOTT of responsibility for compliance with any other federal, ate or local laws and regulations.

ou have any questions, please contact me at (505) 476-3491.

ncerely,

Will Olson

illiam C. Olson
ydrologist
nvironmental Bureau

Chris Williams, OCD Hobbs District Office
Beth Aldrich, Environmental Technology Group, Inc.

Attachment 4

TABLE 1
CONCENTRATIONS OF TPH AND BTEX IN SOIL

TNM-98-SO1
PLAINS MARKETING, L.P.
LEA COUNTY, NM

SAMPLE LOCATION	SAMPLE DATE	Methods: EPA SW 846-8021B, 5030				Method: EPA SW 846-8015M	
		BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	m,p,o-XYLENE (mg/kg)	GRO (mg/kg)	DRO (mg/kg)
MW-4@15'	12/04/04	<0.01	<0.01	<0.01	0.033	<50	2.17
MW-4@16'	12/04/04	<0.01	<0.01	<0.01	<0.01	<50	<1

Attachment 5

Summary Report

Curt Stanley
Nova Safety & Environmental
5023 Commerce
Midland, TX 79703

Report Date: December 8, 2004

Work Order: 4120709

Project Location: North of Monument, NM
Project Name: TNM-98-S01
Project Number: TNM-98-S01

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
49805	MW-4 @ 15'	soil	2004-12-04	14:28	2004-12-07
49807	MW-4 @ 16'	soil	2004-12-04	14:35	2004-12-07

	BTEX				TPH DRO	TPH GRO
Sample - Field Code	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylene (mg/Kg)	DRO (mg/Kg)	GRO (mg/Kg)
49805 - MW-4 @ 15'	<0.0100	<0.0100	<0.0100	0.0329	<50.0	2.17
49807 - MW-4 @ 16'	<0.0100	<0.0100	<0.0100	<0.0100	<50.0	<1.00

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
155 McCutcheon, Suite H El Paso, Texas 79932 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Curt Stanley
Nova Safety & Environmental
5023 Commerce
Midland, TX 79703

Report Date: December 8, 2004

Work Order: 4120709

Project Location: North of Monument, NM
Project Name: TNM-98-S01
Project Number: TNM-98-S01

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
49805	MW-4 @ 15'	soil	2004-12-04	14:28	2004-12-07
49807	MW-4 @ 16'	soil	2004-12-04	14:35	2004-12-07

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

Dr. Blair Leftwich, Director

Analytical Report

Sample: 49805 - MW-4 @ 15'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	14490	Date Analyzed:	2004-12-07	Analyzed By:	MS
Prep Batch:	12802	Date Prepared:	2004-12-07	Prepared By:	MS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	10	0.00100
Toluene		<0.0100	mg/Kg	10	0.00100
Ethylbenzene		<0.0100	mg/Kg	10	0.00100
Xylene		0.0329	mg/Kg	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.869	mg/Kg	10	0.100	87	60.1 - 104
4-Bromofluorobenzene (4-BFB)		0.931	mg/Kg	10	0.100	93	63.1 - 105

Sample: 49805 - MW-4 @ 15'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	14478	Date Analyzed:	2004-12-07	Analyzed By:	BP
Prep Batch:	12791	Date Prepared:	2004-12-07	Prepared By:	DS

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		130	mg/Kg	1	150	87	69.8 - 106.1

Sample: 49805 - MW-4 @ 15'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	14492	Date Analyzed:	2004-12-07	Analyzed By:	MS
Prep Batch:	12802	Date Prepared:	2004-12-07	Prepared By:	MS

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		2.17	mg/Kg	10	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.925	mg/Kg	10	0.100	92	0 - 160
4-Bromofluorobenzene (4-BFB)		1.09	mg/Kg	10	0.100	109	0 - 174

Sample: 49807 - MW-4 @ 16'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	14490	Date Analyzed:	2004-12-07	Analyzed By:	MS
Prep Batch:	12802	Date Prepared:	2004-12-07	Prepared By:	MS

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	10	0.00100
Toluene		<0.0100	mg/Kg	10	0.00100
Ethylbenzene		<0.0100	mg/Kg	10	0.00100
Xylene		<0.0100	mg/Kg	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.856	mg/Kg	10	0.100	86	60.1 - 104
4-Bromofluorobenzene (4-BFB)		0.884	mg/Kg	10	0.100	88	63.1 - 105

Sample: 49807 - MW-4 @ 16'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	14478	Date Analyzed:	2004-12-07	Analyzed By:	BP
Prep Batch:	12791	Date Prepared:	2004-12-07	Prepared By:	DS

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	150	82	69.8 - 106.1

Sample: 49807 - MW-4 @ 16'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	14492	Date Analyzed:	2004-12-07	Analyzed By:	MS
Prep Batch:	12802	Date Prepared:	2004-12-07	Prepared By:	MS

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	10	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.907	mg/Kg	10	0.100	91	0 - 160
4-Bromofluorobenzene (4-BFB)		1.03	mg/Kg	10	0.100	103	0 - 174

Method Blank (2) QC Batch: 14478

Parameter	Flag	Result	Units	RL
DRO		<50.0	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		154	mg/Kg	1	150	103	69.8 - 106.1

Method Blank (1) QC Batch: 14490

Parameter	Flag	Result	Units	RL
Benzene		<0.0100	mg/Kg	0.001
Toluene		<0.0100	mg/Kg	0.001
Ethylbenzene		<0.0100	mg/Kg	0.001
Xylene		<0.0100	mg/Kg	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.00	mg/Kg	10	0.100	100	74.5 - 114
4-Bromofluorobenzene (4-BFB)		0.675	mg/Kg	10	0.100	67	36.6 - 112

Method Blank (1) QC Batch: 14492

Parameter	Flag	Result	Units	RL
GRO		2.17	mg/Kg	0.1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.09	mg/Kg	10	0.100	109	81.8 - 109
4-Bromofluorobenzene (4-BFB)		0.778	mg/Kg	10	0.100	78	50.7 - 113

Laboratory Control Spike (LCS-2) QC Batch: 14478

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
DRO	270	249	mg/Kg	1	250	<12.0	108	8	78.7 - 117.6	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	147	139	mg/Kg	1	150	98	93	69.8 - 106.1

Laboratory Control Spike (LCS-1) QC Batch: 14490

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.948	0.968	mg/Kg	10	0.100	<0.0333	95	2	79.8 - 114	9.4
Toluene	0.928	0.950	mg/Kg	10	0.100	<0.0353	93	2	79.7 - 115	7.5
Ethylbenzene	0.968	0.992	mg/Kg	10	0.100	<0.0339	97	2	78.7 - 116	8

continued ...

control spikes continued...

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Xylene	2.72	2.79	mg/Kg	10	0.300	<0.103	91	2	78.7 - 118	7.9

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	1.04	mg/Kg	10	0.100	100	104	76.6 - 114
4-Bromofluorobenzene (4-BFB)	0.948	0.998	mg/Kg	10	0.100	95	100	72.2 - 111

Laboratory Control Spike (LCS-1) QC Batch: 14492

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
GRO	10.0	12.3	mg/Kg	10	1.00	<0.381	100	21	72 - 124	21

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)	0.886	1.01	mg/Kg	10	0.100	89	101	80.4 - 113
4-Bromofluorobenzene (4-BFB)	0.990	0.998	mg/Kg	10	0.100	99	100	72.2 - 119

Matrix Spike (MS-1) QC Batch: 14492 Spiked Sample: 49805

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
GRO	10.3	10.7	mg/Kg	10	1.00	<0.381	103	4	0 - 182	19.6

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)	0.862	0.875	mg/Kg	10	0.1	86	88	0 - 160
4-Bromofluorobenzene (4-BFB)	1.14	1.16	mg/Kg	10	0.1	114	116	0 - 174

Standard (ICV-2) QC Batch: 14478

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	256	102	75 - 125	2004-12-07

Standard (CCV-4) QC Batch: 14478

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	249	100	75 - 125	2004-12-07

Standard (CCV-1) QC Batch: I4490

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0951	95	85 - 115	2004-12-07
Toluene		mg/Kg	0.100	0.0966	97	85 - 115	2004-12-07
Ethylbenzene		mg/Kg	0.100	0.100	100	85 - 115	2004-12-07
Xylene		mg/Kg	0.300	0.279	93	85 - 115	2004-12-07

Standard (CCV-2) QC Batch: 14490

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.100	100	85 - 115	2004-12-07
Toluene		mg/Kg	0.100	0.0982	98	85 - 115	2004-12-07
Ethylbenzene		mg/Kg	0.100	0.102	102	85 - 115	2004-12-07
Xylene		mg/Kg	0.300	0.289	96	85 - 115	2004-12-07

Standard (ICV-1) QC Batch: 14492

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	1.05	105	85 - 115	2004-12-07

Standard (CCV-1) QC Batch: 14492

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	0.873	87	85 - 115	2004-12-07

Report Date: December 8, 2004
TNM-98-S01

Work Order: 4120709
TNM-98-S01

Page Number: 7 of 7
North of Monument, NM

Page 1 of 1

6701 Aberdeen Avenue, Ste. 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296
email: lab@traceanalysis.com

TraceAnalysis, Inc.

155 McCutcheon,Suite H
El Paso, Texas 79932
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 4120709

Company Name: NOVA SAFETY & ENVIRON. Phone #: 432-520-7720
Address: (Street, City, Zip) 2057 COMMERCE Fax #: 432-520-7701
e-mail:
Contact Person: CURT STANLEY
Invoice to: (If different from above) PLAINS, HOUSTON, TX
Project #: TNM-98-501 Project Name: TNM-98-501
Project Location: NORTH OF EUNICE, NM MONUMENT 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	BTEX 8021B/~~602~~	TPH ~~418.1/TX1005~~ mod 8015 DRO/GRO	TX 1005 Extended (C35)	PAH 8270C	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
49803	MW-4 @ 5'	1	4oz		X							X		12/4	14:18																				X
804	MW-4 @ 10'	"	"		"							"		12/4	14:22																				X
805	MW-4 @ 15'	"	"		"							"		"	14:28	X	X																		
806	MW-4 @ 20'	"	"		"							"		"	14:37																				X
807	MW-4 @ 16'	"	"		"							"		"	14:35	X	X																		

Relinquished by: C. Stanley Date: 12/6/04 Time: 4:16
Received by: Helen Shelton Date: 12/06/04 Time: 1616
Relinquished by: Helen Shelton Date: 12/06/04 Time: 1930
Received by: Date: Time:
Relinquished by: Date: Time:
Received at Laboratory by: Brenda Ward Date: 12/6/04 Time: 11:14

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C. 5 samples HS

ORIGINAL COPY

LAB USE ONLY

Intact Y N
Headspace Y N
Temp 4° C
Log-in Review

REMARKS:

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

Carrier # Lone Star Courier P120384

6701 Aberdeen Avenue, Ste. 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 4120709

Company Name: NOVA SAFETY & ENVIRON. Phone #: 432-520-7720
Address: (Street, City, Zip) 2057 COMMERCE Fax #: 432-520-7701
e-mail:
Contact Person: CURT STANLEY
Invoice to: (If different from above) PLAINS, HOUSTON, TX
Project #: TNM-98-501 Project Name: TNM-98-501
Project Location: NORTH OF MONUMENT 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
49803	MW-4 @ 5'	1	4oz		X							X		12/4	14:18
804	MW-4 @ 10'													12/4	14:22
805	MW-4 @ 15'														14:28
806	MW-4 @ 20'														14:37
807	MW-4 @ 16'														14:35

ANALYSIS REQUEST
(Circle or Specify Method No.)

MTBE 8021B/602	BTEX 8021B/~~602~~	TPH ~~418.1/TX1005~~ 1005 DRO GRO	TX 1005 Extended (C35)	PAH 8270C	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
	X	X																X
																		X
	X	X																
																		X
	X	X																

Relinquished by: C. Stanley Date: 12/6/04 Time: 4:16
Received by: Helen Shelton Date: 12/06/04 Time: 1616
Relinquished by: Helen Shelton Date: 12/06/04 Time: 1930
Received by: Date: Time:
Relinquished by: Date: Time:
Received at Laboratory by: Brenda Ward Date: 12/6/04 Time: 11:14

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C. 5 Samples HS

ORIGINAL COPY

LAB USE ONLY

Intact (Y / N)
Headspace (Y / N)
Temp 4c °
Log-in Review

REMARKS:

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

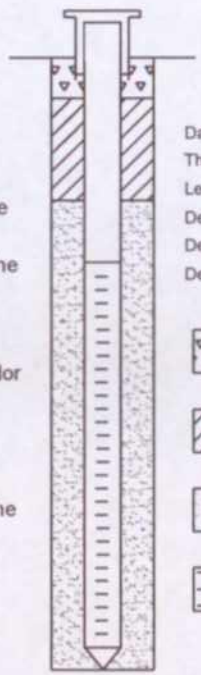
12/9 fp

Carrier # Federal Express 8120 3848

Attachment 6

Monitor Well MW-4

Depth (feet)	PID	Odor	Stain		Soil Description
0		None	None		0 - 5' - Brown sandy clay, moist
5	4.6	None	None		5 - 10' - Brown clay and grey sandy caliche fragments
10	4.1	None	None		10 - 12' - Brown clay and grey sandy caliche fragments
		None	None	Moist	12-15' - Soft, brittle caliche, very sandy
15		None	None	Very Moist	15 - 18' - Grey clay, sandy, slight septic odor and heavy septic stain.
		None	None	Wet	18 - 20' - Red sand and gravel
20	3.9	None	None		20 - 25' - Red sand, clay, gravel and caliche fragments, with some large pebbles
25	2.6	None	None		25 - 28' - Red clay, massive, little sand
30	TD 2.6				28 - 30' - Red sand and gravel



Monitor Well Details

Date Drilled	12-04-04
Thickness of Bentonite Seal	5.0 ft
Length of PVC Well Screen	20 ft
Depth of PVC Well	30 ft
Depth of Exploratory Well	30 ft
Depth to Ground Water	15 ft

Grout Surface Seal

Bentonite Pellet Seal

Sand Pack

Screen

▼ Indicates the groundwater level measured on date

⬭ Indicates samples selected for Laboratory Analysis

PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

1. The monitoring well was installed on date using auger stem drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

Boring Log And Monitor Well Details

Monitor Well - 4

Plains Marketing, L.P. TNM-98-S01 Lea County NM

NOVA safety and environmental

NOVA Saftey and Environmental

Scale: NTS	Prep By: CDS	Checked By: TKC
February 6, 2005		

Attachment 7

TABLE 2

CONCENTRATIONS OF BTEX IN GROUNDWATER

PLAINS PIPELINE, L.P.

TNM 98-SO1

LEA COUNTY, NEW MEXICO

All concentrations are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m,p-XYLENES	o-XYLENE
MW - 1	01/28/99	<0.001	<0.001	<0.001	<0.002	<0.001
	08/25/99	<0.001	<0.001	<0.001	<0.001	<0.001
	12/14/99	<0.001	<0.001	<0.001	<0.001	<0.001
	03/28/00	0.001	<0.001	<0.001	<0.001	<0.001
	06/20/00	<0.001	<0.001	<0.001	<0.001	<0.001
	08/30/00	<0.001	<0.001	<0.001	<0.001	<0.001
	12/04/00	<0.001	<0.001	<0.001	<0.001	<0.001
	12/08/04	<0.001	<0.001	<0.001	<0.001	
MW - 2	01/28/99	<0.001	<0.001	<0.001	<0.002	<0.001
	08/25/99	<0.001	<0.001	<0.001	<0.001	<0.001
	12/14/98	<0.001	<0.001	<0.001	<0.001	<0.001
	03/28/00	<0.001	<0.001	<0.001	<0.001	<0.001
	06/20/00	<0.001	<0.001	<0.001	<0.001	<0.001
	08/30/00	<0.001	<0.001	<0.001	<0.001	<0.001
	12/04/00	0.001	<0.001	<0.001	<0.001	<0.001
	12/08/04	<0.001	<0.001	<0.001	<0.001	
MW - 3	01/28/99	0.002	<0.001	<0.001	<0.002	<0.001
	08/25/99	0.007	0.001	0.002	0.002	0.001
	12/14/99	0.002	0.002	0.002	0.003	0.003
	03/28/00	<0.001	<0.001	0.001	0.001	<0.001
	06/20/00	<0.001	0.001	<0.001	<0.001	<0.001
	08/30/00	0.003	<0.001	<0.001	<0.001	<0.001
	12/04/00	<0.001	0.001	<0.001	<0.001	<0.001
	12/08/04	<0.001	<0.001	<0.001	<0.001	
MW-4	12/10/04	<0.001	<0.001	<0.001	<0.001	
EB - 1	08/30/00	<0.001	<0.001	<0.001	<0.001	<0.001
	12/04/00	<0.001	<0.001	<0.001	<0.001	<0.001

Note: EB denotes Equipment Blank collected during the sampling event.

Attachment 8

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
155 McCutcheon, Suite H El Paso, Texas 79932 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Todd Choban
Nova Safety & Environmental
5023 Commerce
Midland, TX 79703

Report Date: December 16, 2004

Work Order: 4121032

Project Location: North of Monument, NM
Project Name: TNM-98-S01
Project Number: TNM-98-S01

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
50302	MW-1	water	2004-12-08	10:18	2004-12-10
50303	MW-2	water	2004-12-08	10:55	2004-12-10
50304	MW-3	water	2004-12-08	11:26	2004-12-10

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

Dr. Blair Leftwich, Director

Analytical Report

Sample: 50302 - MW-1

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	14678	Date Analyzed:	2004-12-14	Analyzed By:	MT
Prep Batch:	12970	Date Prepared:	2004-12-14	Prepared By:	MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0832	mg/L	1	0.100	83	48.4 - 119
4-Bromofluorobenzene (4-BFB)		0.0249	mg/L	1	0.100	25	17.1 - 138

Sample: 50303 - MW-2

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	14678	Date Analyzed:	2004-12-14	Analyzed By:	MT
Prep Batch:	12970	Date Prepared:	2004-12-14	Prepared By:	MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0626	mg/L	1	0.100	63	48.4 - 119
4-Bromofluorobenzene (4-BFB)		0.0393	mg/L	1	0.100	39	17.1 - 138

Sample: 50304 - MW-3

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	14678	Date Analyzed:	2004-12-14	Analyzed By:	MT
Prep Batch:	12970	Date Prepared:	2004-12-14	Prepared By:	MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0797	mg/L	1	0.100	80	48.4 - 119
4-Bromofluorobenzene (4-BFB)		0.0331	mg/L	1	0.100	33	17.1 - 138

Method Blank (1) QC Batch: 14678

Parameter	Flag	Result	Units	RL
Benzene		<0.00100	mg/L	0.001
Toluene		<0.00100	mg/L	0.001
Ethylbenzene		<0.00100	mg/L	0.001
Xylene		<0.00100	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0875	mg/L	1	0.100	88	48.4 - 119
4-Bromofluorobenzene (4-BFB)	[1]	0.0147	mg/L	1	0.100	15	17.1 - 138

Laboratory Control Spike (LCS-1) QC Batch: 14678

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.0980	0.0983	mg/L	1	0.100	<0.000650	98	0	81.9 - 114	20
Toluene	0.0952	0.0958	mg/L	1	0.100	<0.00101	95	1	82.8 - 112	20
Ethylbenzene	0.0938	0.0934	mg/L	1	0.100	<0.000840	94	0	82.2 - 111	20
Xylene	0.308	0.310	mg/L	1	0.300	<0.000737	103	1	83.5 - 112	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.102	0.101	mg/L	1	0.100	102	101	48.4 - 119
4-Bromofluorobenzene (4-BFB)	0.110	0.109	mg/L	1	0.100	110	109	17.1 - 138

Standard (CCV-1) QC Batch: 14678

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.102	102	85 - 115	2004-12-14
Toluene		mg/L	0.100	0.0994	99	85 - 115	2004-12-14
Ethylbenzene		mg/L	0.100	0.0942	94	85 - 115	2004-12-14
Xylene		mg/L	0.300	0.308	103	85 - 115	2004-12-14

Standard (CCV-2) QC Batch: 14678

[1] Low surrogate recovery due to unknown anomaly. ICV/CCV show the method to be in control.

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.102	102	85 - 115	2004-12-14
Toluene		mg/L	0.100	0.101	101	85 - 115	2004-12-14
Ethylbenzene		mg/L	0.100	0.103	103	85 - 115	2004-12-14
Xylene		mg/L	0.300	0.336	112	85 - 115	2004-12-14

Page 1 of 1

6701 Aberdeen Avenue, Ste. 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
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155 McCutcheon, Suite H
El Paso, Texas 79932
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1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 4121032

Company Name: Nova
Phone #: 432 520 7720
Address: (Street, City, Zip) 2057 Commerce
Fax #:
e-mail:
Contact Person: Todd Choban
Invoice to: (If different from above) Plains
Project #:
Project Name: TNM98 S01
Project Location: Monument
Sampler Signature: [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	BTEX 8021B/602	TPH 418.1/TX1005	TX 1005 Extended (C35)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/2007	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
50302	MW-1	2	✓	X				X				X		12/8	1018	X	X																		
303	MW-2	↓	↓	↓				↓				↓		↓	1055	↓	↓																		
304	MW-3	↓	↓	↓				↓				↓		↓	1126	↓	↓																		

Relinquished by: [signature]	Date: 12/9/04	Time: 7:30 AM	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received at Laboratory by: Brenda Ward

Date: 12/10/04 Time: 12:52

LAB USE ONLY

Intact (Y) N
Headspace Y (N)
Temp 4°C
Log-in Review NA

REMARKS:

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

Carrier # TNM98 915-339-0025

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

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6701 Aberdeen Avenue, Ste. 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 4121032

Company Name: Nova
Phone #: 432 520 7720
Address: (Street, City, Zip) 2057 Commerce
Fax #:
e-mail:
Contact Person: Todd Chrban
Invoice to: (If different from above) Plains
Project #:
Project Name: TNM9B SO1
Project Location: Monument
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
50302	MW-1	2	V	X				X				X		12/8	1018
303	MW-2	↓	↓	↓				↓				↓		↓	1055
304	MW-3	↓	↓	↓				↓				↓		↓	1126

ANALYSIS REQUEST
(Circle or Specify Method No.)

MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	TX 1005 Extended (C35)	PAH 8270C	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
	X																				
	↓																				
	↓																				

Relinquished by: Date: 12/9/04 Time: 7:30 pm
Received by: Date: Time:
Relinquished by: Date: Time:
Received by: Date: Time:
Relinquished by: Date: Time:
Received at Laboratory by: Brenda Ward Date: 12/10/04 Time: 12:52

LAB USE ONLY
Intact (Y) / N
Headspace Y / (N)
Temp 4°C
Log-in Review MA

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

12/17 FP

Carrier # TNM9B 902-339-0025

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TRACEANALYSIS, INC.

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155 McCutcheon, Suite H El Paso, Texas 79932 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Todd Choban
Nova Safety & Environmental
5023 Commerce
Midland, TX 79703

Report Date: December 17, 2004

Work Order: 4121314

Project Location: North of Monument, NM
Project Name: TNM-98-S01
Project Number: TNM-98-S01

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
50400	MW-4	water	2004-12-10	11:40	2004-12-11

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

Analytical Report

Sample: 50400 - MW-4

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	14716	Date Analyzed:	2004-12-16	Analyzed By:	AG
Prep Batch:	12976	Date Prepared:	2004-12-15	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0593	mg/L	1	0.100	59	48.4 - 119
4-Bromofluorobenzene (4-BFB)		0.0261	mg/L	1	0.100	26	17.1 - 138

Method Blank (1) QC Batch: 14716

Parameter	Flag	Result	Units	RL
Benzene		<0.00100	mg/L	0.001
Toluene		<0.00100	mg/L	0.001
Ethylbenzene		<0.00100	mg/L	0.001
Xylene		<0.00100	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0882	mg/L	1	0.100	88	48.4 - 119
4-Bromofluorobenzene (4-BFB)		0.0465	mg/L	1	0.100	46	17.1 - 138

Laboratory Control Spike (LCS-1) QC Batch: 14716

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.0858	0.0977	mg/L	1	0.100	<0.000650	86	13	81.9 - 114	20
Toluene	0.0854	0.0968	mg/L	1	0.100	<0.00101	85	12	82.8 - 112	20
Ethylbenzene	0.0857	0.0970	mg/L	1	0.100	<0.000840	86	12	82.2 - 111	20
Xylene	0.280	0.317	mg/L	1	0.300	<0.000737	93	12	83.5 - 112	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0926	0.0966	mg/L	1	0.100	93	97	48.4 - 119
4-Bromofluorobenzene (4-BFB)	0.105	0.109	mg/L	1	0.100	105	109	17.1 - 138

Standard (CCV-1) QC Batch: 14716

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0959	96	85 - 115	2004-12-16
Toluene		mg/L	0.100	0.0975	98	85 - 115	2004-12-16
Ethylbenzene		mg/L	0.100	0.0988	99	85 - 115	2004-12-16
Xylene		mg/L	0.300	0.321	107	85 - 115	2004-12-16

Standard (CCV-2) QC Batch: 14716

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0959	96	85 - 115	2004-12-16
Toluene		mg/L	0.100	0.0968	97	85 - 115	2004-12-16
Ethylbenzene		mg/L	0.100	0.0986	99	85 - 115	2004-12-16
Xylene		mg/L	0.300	0.320	107	85 - 115	2004-12-16

6701 Aberdeen Avenue, Ste. 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296
email: lab@traceanalysis.com

TraceAnalysis, Inc.

155 McCutcheon,Suite H
El Paso, Texas 79932
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 4121314

Company Name: Nova
Phone #: 432 520 7720
Address: (Street, City, Zip) 2057 Commerce
Fax #:
e-mail:
Contact Person: Todd Hoban
Invoice to: (If different from above) Plains
Project #:
Project Name: TNM 98 501
Project Location: Monument
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
50400	MW-4	2	V	X				X				X		12/10	1142

ANALYSIS REQUEST (Circle or Specify Method No.)

MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	TX 1005 Extended (C35)	PAH 8270C	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
	X																			

Relinquished by: Date: 12/10 Time: 430pm
Received by: Date: Time:
Relinquished by: Date: Time:
Received by: Date: Time:
Relinquished by: Date: Time:
Received at Laboratory by: Date: 12/11/04 Time: 9:08 AM

LAB USE ONLY
Intact Y / N
Headspace Y / N
Temp 6 °
Log-in Review

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

Carrier # Bus 903 379 043 2

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

ORIGINAL COPY

Report Date: December 17, 2004
TNM-98-S01

Work Order: 4121314
TNM-98-S01

Page Number: 4 of 4
North of Monument, NM

6701 Aberdeen Avenue, Ste. 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296
email: lab@traceanalysis.com

TraceAnalysis, Inc.

155 McCutcheon,Suite H
El Paso, Texas 79932
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 412314

Company Name: Nova Phone #: 4325207720

Address: (Street, City, Zip) 2057 Commerce Fax #:

e-mail:

Contact Person: Todd Cohan

Invoice to: (If different from above) Plains

Project #: Project Name: TNM 98 501

Project Location: Monument 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
50400	MW-4	2	V	X				X				X		12/10	1142

MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	TX 1005 Extended (C35)	PAH 8270C	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
	X																			

Relinquished by:	Date: 12/10	Time: 430pm	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date: 12/11/04	Time: 9:08 AM

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

ORIGINAL COPY

LAB USE ONLY

Intact Y / N

Headspace Y / N

Temp 5 °

Log-in Review

REMARKS:

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

12/17 rp

Carrier # Bus 903 379 043 2

Attachment 9

District I - (505) 393-6161
P.O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 South First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

State of New Mexico

Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

98-501

Form C-141
Originated 2/13/97

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: Texas-New Mexico Pipe Line Company	Contact: Edwin H. Gripp
Address: Box 60028, San Angelo, TX 76906	Telephone No.: (915) 947-9000
Facility Name:	Facility Type: pipe line

Surface Owner	Mineral Owner	Lease No.
Jim T. Cooper		

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	20	19S	37E					Lea

NATURE OF RELEASE

Type of Release: Sour crude	Volume of Release: 15 barrels	Volume Recovered: 10 barrels
Source of Release: 4" poly pipe	Date and Hour of Occurrence: 1-12-98 9:15AM	Date and Hour of Discovery: 1-12-98 9:15AM
Was Immediate Notice Given? [X] Yes [ ] No [ ] Not Required	If YES, To Whom? Wayne Price	
By Whom? Tony Savoie	Date and Hour: 1-12-98 10:35AM	
Was a Watercourse Reached? [ ] Yes [X] No	If YES, Volume Impacting the Watercourse. —	

If a Watercourse was Impacted, Describe Fully.*
—

Describe Cause of Problem and Remedial Action Taken.*
Line damaged by Allstate Services while remediating historical spill site.

Describe Area Affected and Cleanup Action Taken.*
Approximately 30 sq. ft. live hole. All stained soils removed for delivery to C&L Land Farm.

Describe General Conditions Prevailing (Temperature, Precipitation, etc.).*
Clear, dry 45°

I hereby certify that the information given above is true and complete to the best of my knowledge and belief.	**OIL CONSERVATION DIVISION**
Signature: [signature]	Approved by District Supervisor:
Printed Name: Edwin H. Gripp	
Title: District Manager	Approval Date: / Expiration Date:
Date: 1-17-98 Phone: 915-947-9001	Conditions of Approval: / Attached [ ]

* Attach Additional Sheets If Necessary

State Corp. Commission
Pipe Line Division

Hazardous Waste Section
NM Environmental Improvement Div.

JWL JAS

TNM-98-501