APPROVED

Closure Report Approved, Release Resolved.

SPILL CLEANUP REPORT FOR A PIPELINE LEAK NEAR FARFELU #1 WELL SITE

LOCATED AT:
SECTION 19, TOWNSHIP 25N, RANGE 11W
SAN JUAN COUNTY, NEW MEXICO

FOR:
MR. ALLEN LAIN
ELM RIDGE BEELINE
P.O. BOX 1280
BLOOMFIELD, NEW MEXICO 87412

PROJECT NO. 08011-0009
MARCH 2009

envirotech

April 13, 2009 Project No. 08011-0009

Mr. Allen Lain
Elm Ridge Beeline
P.O. Box 1280
Bloomfield, New Mexico 87412 Cell: (505) 486-0260

RE: SPILL CLEANUP REPORT FOR A PIPELINE LEAK NEAR FARFELU #1 WELL SITE, SAN JUAN COUNTY, NEW MEXICO

Dear Mr. Lain,

Enclosed please find the *Spill Cleanup Report* for a Pipeline Leak near Farfelu #1 well site located in Section 19, Township 25N, Range 11W, San Juan County, New Mexico. We have included one (1) original and five (5) copies, all unbound per your request. Please review the report and forward one (1) copy to the Bureau of Land Management and one (1) copy to Mr. Brandon Powell with the NMOCD.

We appreciate the opportunity to be of service. If you should have any questions, please contact our office at (505) 632-0615.

Respectfully,
ENVIROTECH, INC.

Toni McKnight
Staff Scientist
tmcknight@envirotech-inc.com

Enclosures: One (1) original and five (5) copies

CC: Client file 08011

ELM RIDGE BEELINE
SPILL CLEANUP REPORT FOR A PIPELINE NEAR FARFELU #1 WELL SITE
SECTION 19, TOWNSHIP 25N, RANGE 11W
SAN JUAN COUNTY, NEW MEXICO

TABLE OF CONTENTS

INTRODUCTION

Envirotech, Inc. of Farmington, New Mexico, was contracted by Elm Ridge Beeline to perform spill closure activities for contamination found at a pipeline leak near the Farfelu #1 well site, located in Section 19, Township 25N, Range 11W; see ***Figure 1, Vicinity Map.*** Cleanup activities included confirmation sampling, analysis, and reporting.

DESCRIPTION OF WORK

February 26, 2009

Envirotech, Inc. arrived on site on February 26, 2009, to begin environmental cleanup activities. Upon arrival, a brief site assessment was performed to outline the extent of the spill area; see ***Appendix A, Site Photography***. Due to the depth to groundwater being less than 100 feet, but greater than 50 feet at the site, regulatory standards were determined to be 1000 ppm total petroleum hydrocarbons (TPH) and 100 ppm organic vapors, pursuant to the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases.

Condensate from the pipeline covered a surface area of 65' x 36' with pooling condensate observed at the surface. A sample of the pooling condensate at the surface was collected and analyzed in the field for total chlorides. The water sample returned results that were above 6,500 ppm total chlorides.

A surface scraping of the contaminated area was conducted by Vaughn Oil Field Trucking to an extent of 65' x 36' x 4" below ground surface (BGS). A 5-point composite sample was collected from the area at 4" BGS and analyzed in the field for TPH via USEPA Method 418.1. The sample returned results below the NMOCD guidelines for TPH via USEPA Method 418.1; see ***Table 1, Summary of Analytical Results.*** The 5-point composite sample from the surface (4" BGS) was placed into four (4)-ounce jars, capped headspace free, placed on ice, and transported under chain of custody to Envirotech's Laboratory for analysis for total BTEX using USEPA Method 8021 and for total chlorides. All samples collected were below NMOCD requirements for benzene and BTEX but above the regulatory standards for total chlorides.

The area around the leaking pipeline was excavated to approximately 36' x 30' x 8' BGS to expose the pipeline for repairs; see ***Figure 2, Site Map***. A 5-point composite sample was collected from the bottom of the excavation at 8' BGS. The sample was analyzed in the field for TPH using USEPA Method 418.1 and returned results above the regulatory limit of 1,000 ppm TPH; therefore excavation continued; see ***Table 1, Summary of Analytical Results.*** Sandstone was encountered at 10' BGS where a soil sample was collected and placed into a four (4)-ounce jar, capped headspace free, place on ice, and transported under chain of custody to Envirotech's Laboratory for analysis for TPH using USEPA Method 8015 and total BTEX using USEPA Method 8021. All samples collected were below NMOCD requirements for benzene and BTEX. The bottom sample at 10' BGS was above the NMOCD requirements for TPH via USEPA Method 8015; see Table ***1, Summary of Analytical Results.*** Sampling and excavation of the four (4) walls was resumed on February 27, 2009.

February 27, 2009

Envirotech, Inc returned to the site on February 27, 2009, to determine the extents of contamination of the four (4) walls of the excavation. Upon arrival, samples were collected from the four (4) walls of the excavation around the pipeline and analyzed in the field for TPH via USEPA Method 418.1 and organic vapors using a Photo Ionization Detector (PID). The sample from the east wall returned results that were below the regulatory limits at 1,000 ppm TPH and 100 ppm organic vapors. The south wall was below 1,000 ppm TPH but above 100 ppm organic vapors. The north and west walls were above 1,000 ppm TPH and 100 ppm organic vapors; see ***Table 1, Summary of Analytical Results.***

The north, south, and west walls were trenched to determine the extents of the contamination in each direction. Samples were taken from the north, south and west trenches and analyzed in the field for TPH via USEPA Method 418.1 and for organic vapors using a PID. The samples were below the regulatory limits of 1,000 ppm TPH and 100 ppm organic vapors. The final extents of the excavation were 52' x 40' x 10' BGS where sandstone was encountered. Samples from the north, south, and west walls were collected and tested in the field for TPH via USEPA Method 418.1 and organic vapors using a PID. All samples were below the NMOCD guidelines for TPH via USEPA Method 418.1. The sample from the west wall returned results below the guidelines for organic vapors, but the samples from the north and south walls returned results above the guidelines for organic vapors; see ***Table 1, Summary of Analytical Results.*** The north and south wall samples were placed into four (4)-ounce jars, capped headspace free, placed on ice, and transported under chain of custody to Envirotech's Laboratory for analysis for total BTEX using USEPA Method 8021 and for total chlorides. The samples returned results below the NMOCD guidelines for benzene and BTEX; see ***Appendix C, Laboratory Results,*** therefore no further excavation was required.

A total of twenty-four (24) cubic yards of contaminated soil were transported to Envirotech's NMOCD Permitted Soil Remediation Facility Landfarm #2 at Hilltop, New Mexico; see ***Appendix D, Bill of Lading.***

STATEMENT OF LIMITATIONS

Envirotech, Inc. performed soil screening and documentation for soil excavated at a pipeline leak near Farfelu #1 well site, located in Section 19, Township 25N, Range 11W, San Juan County, New Mexico. The work and services provided by Envirotech, Inc. were under the guidelines of the NMOCD. All observations and conclusions provided here are based on the information and current site conditions found during this investigation.

The undersigned has conducted this service at the above referenced site. This work has been conducted and reported in accordance with generally accepted professional practices in geology, engineering, environmental chemistry, and hydrogeology.

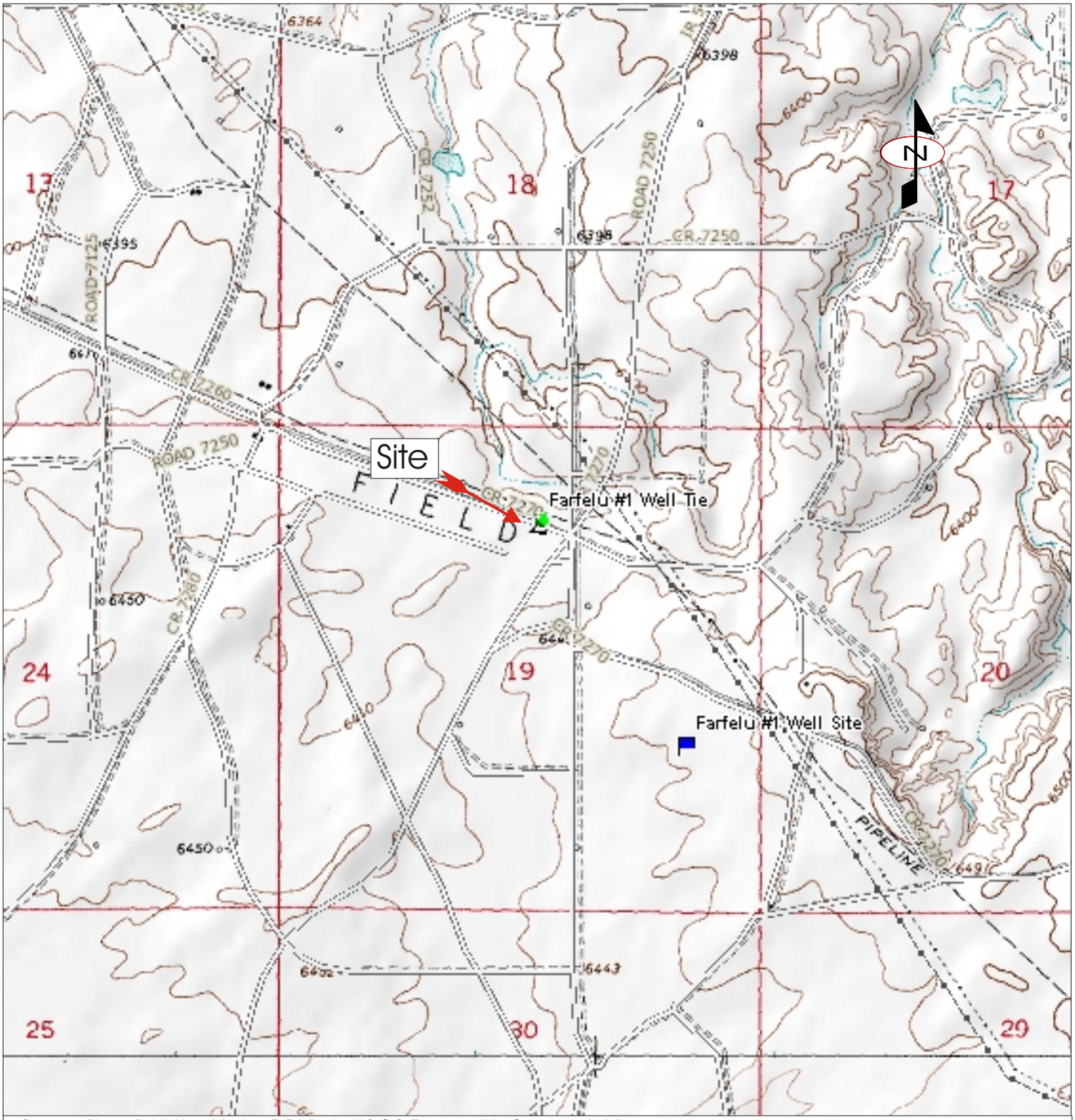
Respectfully Submitted,
ENVIROTECH, INC.

Toni McKnight
Staff Scientist
tmcknight@envirotech-inc.com

Reviewed by:

Kyle P. Kerr, CHMM
Senior Environmental Scientist/Manager
kpkerr@envirotech-inc.com

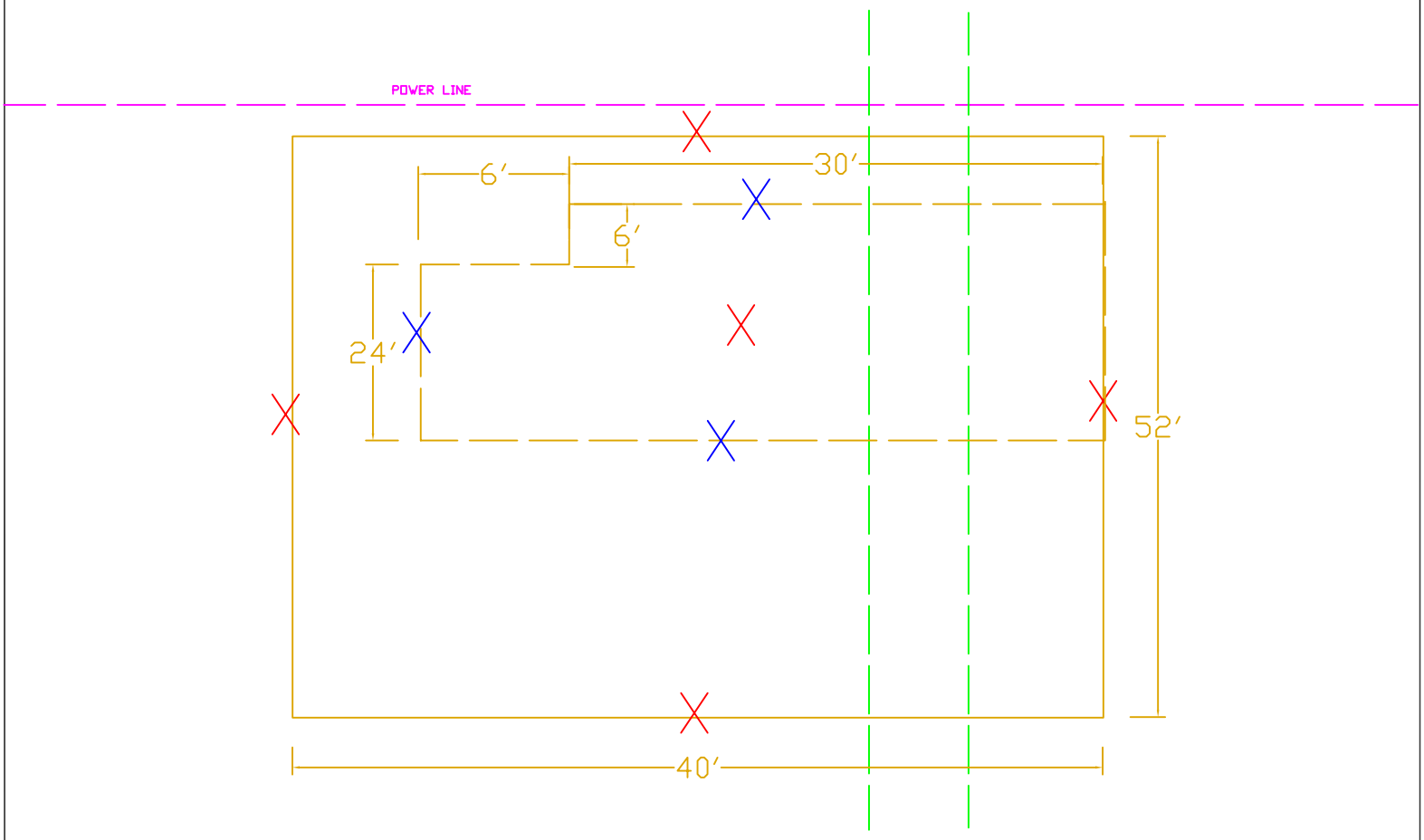
FIGURES



Source: Bloomfield, New Mexico 7.5 Minute U.S.G.S. Topographic Quadrangle Map
Scale: 1:24,000 1" = 2000'

Elm Ridge Beeline Pipeline Leak Near Farfelu #1 Well Site San Juan County, New Mexico	ENVIROTECH INC. ENVIRONMENTAL SCIENTISTS & ENGINEERS 5796 U.S. HIGHWAY 64 FARMINGTON, NEW MEXICO 87401 PHONE (505) 632-0615	Vicinity Map Figure 1	
PROJECT No 08011-0009 / Date Drawn: 03-20-09		DRAWN BY: Toni McKnight	PROJECT MANAGER: Kyle P. Kerr

CR 7270



LEGEND

--EXCAVATION 2/26/09

— FINAL EXCAVATION

X INITIAL SAMPLES

X FINAL SAMPLES

= PIPE LINE

SITE MAP
ELM RIDGE BEELINE
PIPELINE LEAK NEAR FARFELU #1 WELL SITE
SEC 19, TWN 25N, RNG 11W
SAN JUAN COUNTY, NEW MEXICO

SCALE: NTS	FIGURE NO. 2	REV
PROJECT NO08011-0009		

REVISIONS

NO.	DATE	BY	DESCRIPTION

MAP DRWN	TLM	3-20-09	BASE DRWN		

ENVIRONMENTAL SCIENTISTS & ENGINEERS
ENVIROTECH
5796 U.S. HIGHWAY 64, FARMINGTON, NM 87410 505-632-0615

TABLE

Table 1, Summary of Analytical Results

Table 1, Analytical Results
Elm Ridge Beeline
Spill Cleanup for a Pipeline Leak Near Farfelu #1 Well Site
Sec. 19, Twp. 25N, Rng. 11W
San Juan County, New Mexico
Project No. 08011-0009

Soil Samples Sample Description	Sample Number	Date	USEPA Method 8021 Benzene (ppm)	USEPA Method 8021 BTEX (ppm)	USEPA Method 418.1 TPH (ppm)	USEPA Method 8015 GRO/DRO (ppm)	OVM (ppm)	Total Chlorides (ppm)
NMOCD Standards	NA	NA	10	50	1000	1000	100	1000
Background	1	2/26/09	NS	NS	NS	NS	NS	40
Stockpile	2	2/26/09	NS	NS	NS	NS	NS	880
Surface Composite @ 4"	3	2/26/09	0.045	1.230	12	NS	NS	NS
Bottom @ 8'	4	2/26/09	NS	NS	**8080**	NS	NS	NS
Bottom @ 10'	5	2/26/09	1.590	21.0	NS	**5440**	NS	NS
North Wall	1	2/27/09	NS	NS	**5080**	NS	**421.0**	NS
South Wall	2	2/27/09	NS	NS	**2040**	NS	**346.0**	NS
East Wall	3	2/27/09	NS	NS	68	NS	26.0	NS
West Wall	4	2/27/09	NS	NS	**4640**	NS	**409.0**	NS
West Trench	5	2/27/09	NS	NS	36	NS	92.0	NS
North Trench	6	2/27/09	NS	NS	56	NS	**270.0**	NS
South Trench	7	2/27/09	NS	NS	44	NS	40.0	NS
South Wall Final	8	2/27/09	ND	0.041	44	NS	**170.0**	60.0
North Wall Final	9	2/27/09	ND	0.054	188	NS	**268.0**	130
West Wall Final	10	2/27/09	NS	NS	68	NS	57.0	NS

NS = Not Sampled
ND = Non-Detect
Values in **BOLD** are above regulatory standards

APPENDIX A

Site Photography

Spill Cleanup Report
Spill Cleanup for a Pipeline Leak Near Farfelu #1 Well Site
San Juan County, New Mexico
Project No. 08011-0009

Photo 1: Pipeline Leak Breaking Ground Surface

Photo 2: Exposing Leaking Pipeline

Spill Cleanup Report
Spill Cleanup for a Pipeline Leak Near Farfelu #1 Well Site
San Juan County, New Mexico
Project No. 08011-0009

Photo 3: During Excavation

Photo 4: During Excavation

Photo 5: Trenching to Find Extent of Contamination

Photo 6: Leaking Pipeline

Photo 7: Final Extents of Excavation

Photo 8: Final Extents of Excavation

APPENDIX B

Field Analytical Results

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EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	Elm Ridge Beeline	Project #:	08011-0009
Sample No.:	1	Date Reported:	3/20/2009
Sample ID:	Surface Composite @ 4"	Date Sampled:	2/26/2009
Sample Matrix:	Soil	Date Analyzed:	2/26/2009
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**12**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Pipeline Leak @ Farfelu Well Tie**

Instrument callibrated to 200 ppm standard. Zeroed before each sample

Analyst

Greg Crabtree
Printed

Review

Sherry Auckland
Printed

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EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	Elm Ridge Beeline	Project #:	08011-0009
Sample No.:	2	Date Reported:	3/20/2009
Sample ID:	Bottom @ 8'	Date Sampled:	2/26/2009
Sample Matrix:	Soil	Date Analyzed:	2/26/2009
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**8,080**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Pipeline Leak at Farfelu Well Tie**

Instrument callibrated to 200 ppm standard. Zeroed before each sample

Analyst

Greg Crabtree
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Review

Sherry Auckland
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CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 26-Feb-09

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	
	200	200
	500	
	1000	

The accepted percent relative deviation (%RSD) of the calibration factor is less than 20% over the working range.

Analyst — Date: 4/1/09

Greg Crabtree
Print Name

Review — Date: 4/1/09

Sherry Auckland
Print Name

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EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Elm Ridge Beeline	Project #:	08011-0009
Sample No.:	1	Date Reported:	3/20/2009
Sample ID:	N Wall	Date Sampled:	2/27/2009
Sample Matrix:	Soil	Date Analyzed:	2/27/2009
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**5,080**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Pipeline Leak @ Farfelu Well Tie**

Instrument callibrated to 200 ppm standard. Zeroed before each sample

Toni McKnight
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EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Elm Ridge Beeline	Project #:	08011-0009
Sample No.:	2	Date Reported:	3/20/2009
Sample ID:	South Wall	Date Sampled:	2/27/2009
Sample Matrix:	Soil	Date Analyzed:	2/27/2009
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**2,040**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Pipeline Leak @ Farfelu Well Tie**

Instrument callibrated to 200 ppm standard. Zeroed before each sample

Toni McKnight
Analyst

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EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Elm Ridge Beeline	Project #:	08011-0009
Sample No.:	3	Date Reported:	3/20/2009
Sample ID:	East Wall	Date Sampled:	2/27/2009
Sample Matrix:	Soil	Date Analyzed:	2/27/2009
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**68**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Pipeline Leak @ Farfelu Well Tie**

Instrument callibrated to 200 ppm standard. Zeroed before each sample

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EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Elm Ridge Beeline	Project #:	08011-0009
Sample No.:	4	Date Reported:	3/20/2009
Sample ID:	West Wall	Date Sampled:	2/27/2009
Sample Matrix:	Soil	Date Analyzed:	2/27/2009
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**4,640**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Pipeline Leak @ Farfelu Well Tie**

Instrument callibrated to 200 ppm standard. Zeroed before each sample

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EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Elm Ridge Beeline	Project #:	08011-0009
Sample No.:	5	Date Reported:	3/20/2009
Sample ID:	West Trench	Date Sampled:	2/27/2009
Sample Matrix:	Soil	Date Analyzed:	2/27/2009
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**36**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Pipeline Leak @ Farfelu Well Tie**

Instrument callibrated to 200 ppm standard. Zeroed before each sample

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EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	Elm Ridge Beeline	Project #:	08011-0009
Sample No.:	6	Date Reported:	3/20/2009
Sample ID:	North Trench	Date Sampled:	2/27/2009
Sample Matrix:	Soil	Date Analyzed:	2/27/2009
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**56**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Pipeline Leak @ Farfelu Well Tie**

Instrument callibrated to 200 ppm standard. Zeroed before each sample

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EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Elm Ridge Beeline	Project #:	08011-0009
Sample No.:	7	Date Reported:	3/20/2009
Sample ID:	South Trench	Date Sampled:	2/27/2009
Sample Matrix:	Soil	Date Analyzed:	2/27/2009
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**44**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Pipeline Leak @ Farfelu Well Tie**

Instrument callibrated to 200 ppm standard. Zeroed before each sample

Toni McKnight
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EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Elm Ridge Beeline	Project #:	08011-0009
Sample No.:	8	Date Reported:	3/20/2009
Sample ID:	South Wall Final	Date Sampled:	2/27/2009
Sample Matrix:	Soil	Date Analyzed:	2/27/2009
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**44**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Pipeline Leak @ Farfelu Well Tie**

Instrument callibrated to 200 ppm standard. Zeroed before each sample

Toni McKnight
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EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Elm Ridge Beeline	Project #:	08011-0009
Sample No.:	9	Date Reported:	3/20/2009
Sample ID:	North Wall Final	Date Sampled:	2/27/2009
Sample Matrix:	Soil	Date Analyzed:	2/27/2009
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**188**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Pipeline Leak @ Farfelu Well Tie**

Instrument callibrated to 200 ppm standard. Zeroed before each sample

Toni McKnight
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EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Elm Ridge Beeline	Project #:	08011-0009
Sample No.:	10	Date Reported:	3/20/2009
Sample ID:	West Wall Final	Date Sampled:	2/27/2009
Sample Matrix:	Soil	Date Analyzed:	2/27/2009
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**68**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Pipeline Leak @ Farfelu Well Tie**

Instrument callibrated to 200 ppm standard. Zeroed before each sample

Toni McKnight
Analyst

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APPENDIX C

Laboratory Results

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CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 27-Feb-09

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	
	200	220
	500	
	1000	

The accepted percent relative deviation (%RSD) of the calibration factor is less than 20% over the working range.

Toni McKnight
Analyst

4/1/09
Date

Toni McKnight
Print Name

Sherry Auckland
Review

4/1/09
Date

Sherry Auckland
Print Name

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Analytical Laboratory

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Elm Ridge Beeline	Project #:	08011-0009
Sample ID:	Bottom @ 10' BGS	Date Reported:	03-04-09
Laboratory Number:	49143	Date Sampled:	02-26-09
Chain of Custody No:	6417	Date Received:	02-26-09
Sample Matrix:	Soil	Date Extracted:	03-02-09
Preservative:	Cool	Date Analyzed:	03-03-09
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**4,360**	**0.2**
Diesel Range (C10 - C28)	**1,080**	**0.1**
Total Petroleum Hydrocarbons	**5,440**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Farfelu Well Tie.**

Analyst

Review

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EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	03-03-09 QA/QC	Date Reported:	03-04-09
Laboratory Number:	49122	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-03-09
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	05-07-07	9.8401E+002	9.8441E+002	**0.04%**	**0 - 15%**
Diesel Range C10 - C28	05-07-07	1.0122E+003	1.0126E+003	**0.04%**	**0 - 15%**

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	**ND**	**0.2**
Diesel Range C10 - C28	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	**ND**	**ND**	**0.0%**	**0 - 30%**
Diesel Range C10 - C28	**4.7**	**4.6**	**2.1%**	**0 - 30%**

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	**ND**	**250**	**250**	**100%**	**75 - 125%**
Diesel Range C10 - C28	**4.7**	**250**	**253**	**99.2%**	**75 - 125%**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **QA/QC for Samples 49122 - 49124, 49143, 49151 - 49153 and 49169.**

Analyst

Review Christine M Walters

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Elm Ridge Beeline	Project #:	08011-0009
Sample ID:	Bottom @ 10' BGS	Date Reported:	03-04-09
Laboratory Number:	49143	Date Sampled:	02-26-09
Chain of Custody:	6417	Date Received:	02-26-09
Sample Matrix:	Soil	Date Analyzed:	03-03-09
Preservative:	Cool	Date Extracted:	03-02-09
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**1,590**	**0.9**
Toluene	**7,880**	**1.0**
Ethylbenzene	**943**	**1.0**
p,m-Xylene	**7,630**	**1.2**
o-Xylene	**2,980**	**0.9**
Total BTEX	**21,000**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97.0 %**
	1,4-difluorobenzene	**97.0 %**
	Bromochlorobenzene	**97.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Farfelu Well Tie.**

Analyst

Review

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Elm Ridge Beeline	Project #:	08011-0009
Sample ID:	Top Composite @ 4"	Date Reported:	03-04-09
Laboratory Number:	49144	Date Sampled:	02-26-09
Chain of Custody:	6417	Date Received:	02-26-09
Sample Matrix:	Soil	Date Analyzed:	03-03-09
Preservative:	Cool	Date Extracted:	03-02-09
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**45.2**	**0.9**
Toluene	**407**	**1.0**
Ethylbenzene	**61.2**	**1.0**
p,m-Xylene	**535**	**1.2**
o-Xylene	**186**	**0.9**
Total BTEX	**1,230**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**99.0 %**
	1,4-difluorobenzene	**99.0 %**
	Bromochlorobenzene	**99.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Farfelu Well Tie.**

Analyst

Review

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	03-03-BT QA/QC	Date Reported:	03-04-09
Laboratory Number:	49122	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-03-09
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc	Detect. Limit
Benzene	2.2416E+005	2.2461E+005	**0.2%**	**ND**	**0.1**
Toluene	2.5727E+005	2.5779E+005	**0.2%**	**ND**	**0.1**
Ethylbenzene	2.6047E+005	2.6099E+005	**0.2%**	**ND**	**0.1**
p,m-Xylene	6.6790E+005	6.6924E+005	**0.2%**	**ND**	**0.1**
o-Xylene	3.1716E+005	3.1780E+005	**0.2%**	**ND**	**0.1**

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	**6.4**	**6.2**	**3.1%**	**0 - 30%**	**0.9**
Toluene	**17.5**	**17.1**	**2.3%**	**0 - 30%**	**1.0**
Ethylbenzene	**10.3**	**10.1**	**1.9%**	**0 - 30%**	**1.0**
p,m-Xylene	**36.6**	**36.2**	**1.1%**	**0 - 30%**	**1.2**
o-Xylene	**18.3**	**17.8**	**2.7%**	**0 - 30%**	**0.9**

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	**6.4**	**50.0**	**56.0**	**99.3%**	**39 - 150**
Toluene	**17.5**	**50.0**	**64.5**	**95.6%**	**46 - 148**
Ethylbenzene	**10.3**	**50.0**	**59.3**	**98.3%**	**32 - 160**
p,m-Xylene	**36.6**	**100**	**132**	**96.3%**	**46 - 148**
o-Xylene	**18.3**	**50.0**	**71.3**	**104%**	**46 - 148**

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: **QA/QC for Samples 49122 - 49124, 49141, 49143, 49144, 49151 - 49153, and 49169.**

Analyst

Review

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Chloride

Client:	Elm Ridge Beeline	Project #:	08011-0009
Sample ID:	Background	Date Reported:	03-05-09
Lab ID#:	49145	Date Sampled:	02-26-09
Sample Matrix:	Soil	Date Received:	02-26-09
Preservative:	Cool	Date Analyzed:	03-03-09
Condition:	Intact	Chain of Custody:	6417

Parameter	Concentration (mg/Kg)
Total Chloride	**40**

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Farfelu Well Tie.**

Analyst

Review

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Chloride

Client:	Elm Ridge Beeline	Project #:	08011-0009
Sample ID:	Stockpile Comp	Date Reported:	03-05-09
Lab ID#:	49146	Date Sampled:	02-26-09
Sample Matrix:	Soil	Date Received:	02-26-09
Preservative:	Cool	Date Analyzed:	03-03-09
Condition:	Intact	Chain of Custody:	6417

Parameter	Concentration (mg/Kg)
Total Chloride	**880**

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983. Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Farfelu Well Tie.**

Analyst

Review

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CHAIN OF CUSTODY RECORD

6417

Client:	Project Name / Location:
Elm Ridge Beeline	Farfelu Well Tie
Client Address:	Sampler Name: GWC
Client Phone No.:	Client No.: 08011-0009

Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative $HgCl_2$	Preservative HCl	TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE				Sample Cool	Sample Intact
Bottom @ 10' BGS	2/26/09	1250	49143	(Soil) Solid Sludge Aqueous	1-4oz			✓	✓												✓	✓
Top Composite @ 4"	2/26/09	1300	49144	(Soil) Solid Sludge Aqueous	1-4oz				✓												✓	✓
Background		1520	49145	(Soil) Solid Sludge Aqueous	1-baggie												✓				✓	✓
Stockpile Comp		1525	49146	(Soil) Solid Sludge Aqueous	1-baggie												✓				✓	✓
				Soil Solid Sludge Aqueous																		
				Soil Solid Sludge Aqueous																		
				Soil Solid Sludge Aqueous																		
				Soil Solid Sludge Aqueous																		
				Soil Solid Sludge Aqueous																		
				Soil Solid Sludge Aqueous																		

	Date	Time		Date	Time
Relinquished by: (Signature)	2/26/09	1610	Received by: (Signature)	2/26/09	1610
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Elmridge Beeline	Project #:	08011-0009
Sample ID:	N Wall Final	Date Reported:	03-05-09
Laboratory Number:	49156	Date Sampled:	02-27-09
Chain of Custody:	6424	Date Received:	02-27-09
Sample Matrix:	Soil	Date Analyzed:	03-04-09
Preservative:	Cool	Date Extracted:	03-03-09
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**0.9**
Toluene	**7.3**	**1.0**
Ethylbenzene	**2.7**	**1.0**
p,m-Xylene	**32.5**	**1.2**
o-Xylene	**11.8**	**0.9**
Total BTEX	**54.3**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**99.0 %**
	1,4-difluorobenzene	**99.0 %**
	Bromochlorobenzene	**99.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Sargelu Well Tie - Spill.**

Analyst

Review

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Elmridge Beeline	Project #:	08011-0009
Sample ID:	S Wall Final	Date Reported:	03-05-09
Laboratory Number:	49157	Date Sampled:	02-27-09
Chain of Custody:	6424	Date Received:	02-27-09
Sample Matrix:	Soil	Date Analyzed:	03-04-09
Preservative:	Cool	Date Extracted:	03-03-09
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**0.9**
Toluene	**8.3**	**1.0**
Ethylbenzene	**1.5**	**1.0**
p,m-Xylene	**21.5**	**1.2**
o-Xylene	**9.8**	**0.9**
Total BTEX	**41.1**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97.0 %**
	1,4-difluorobenzene	**97.0 %**
	Bromochlorobenzene	**97.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Sargelu Well Tie - Spill.**

Analyst

Review

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	03-04-BT QA/QC	Date Reported:	03-05-09
Laboratory Number:	49154	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-04-09
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff Accept. Range 0 - 15%	Blank Conc	Detect. Limit
Benzene	1.8263E+005	1.8300E+005	0.2%	ND	0.1
Toluene	2.0961E+005	2.1003E+005	0.2%	ND	0.1
Ethylbenzene	2.1066E+005	2.1109E+005	0.2%	ND	0.1
p,m-Xylene	5.6979E+005	5.7093E+005	0.2%	ND	0.1
o-Xylene	2.3028E+005	2.3075E+005	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	6.9	6.7	2.9%	0 - 30%	0.9
Toluene	10.9	10.5	3.7%	0 - 30%	1.0
Ethylbenzene	10.7	10.5	1.9%	0 - 30%	1.0
p,m-Xylene	62.2	61.7	0.8%	0 - 30%	1.2
o-Xylene	30.2	29.6	2.0%	0 - 30%	0.9

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	6.9	50.0	56.5	99.3%	39 - 150
Toluene	10.9	50.0	57.9	95.1%	46 - 148
Ethylbenzene	10.7	50.0	59.7	98.4%	32 - 160
p,m-Xylene	62.2	100	157	96.9%	46 - 148
o-Xylene	30.2	50.0	77.1	96.1%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: **QA/QC for Samples 49154 - 49163.**

Analyst

Review

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Chloride

Client:	Elmridge Beeline	Project #:	08011-0009
Sample ID:	N Wall Final	Date Reported:	03-05-09
Lab ID#:	49156	Date Sampled:	02-27-09
Sample Matrix:	Soil	Date Received:	02-27-09
Preservative:	Cool	Date Analyzed:	03-03-09
Condition:	Intact	Chain of Custody:	6424

Parameter	Concentration (mg/Kg)
Total Chloride	**130**

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Sargelu Well Tie - Spill.**

Analyst

Review

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Chloride

Client:	Elmridge Beeline	Project #:	08011-0009
Sample ID:	S Wall Final	Date Reported:	03-05-09
Lab ID#:	49157	Date Sampled:	02-27-09
Sample Matrix:	Soil	Date Received:	02-27-09
Preservative:	Cool	Date Analyzed:	03-03-09
Condition:	Intact	Chain of Custody:	6424

Parameter	Concentration (mg/Kg)
Total Chloride	**60**

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Sargelu Well Tie - Spill.**

Analyst

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CHAIN OF CUSTODY RECORD

6424

Client: Elmridge Beeline	Project Name / Location: Sargelu Welltie - Spill	ANALYSIS / PARAMETERS
Client Address:	Sampler Name: T. McKnight	
Client Phone No.:	Client No.: 08011-0009	

Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative $HgCl_2$	Preservative HCl	Preservative Cool	TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE				Sample Cool	Sample Intact
N Wall Final	2/27	14:06	49156	(Soil) Sludge Solid Aqueous	1/4oz			✓		✓								✓				✓	✓
S Wall Final	2/27	14:09	49157	(Soil) Sludge Solid Aqueous	1/4oz			✓		✓								✓				✓	✓
				Soil Sludge Solid Aqueous																			
				Soil Sludge Solid Aqueous																			
				Soil Sludge Solid Aqueous																			
				Soil Sludge Solid Aqueous																			
				Soil Sludge Solid Aqueous																			
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				Soil Sludge Solid Aqueous																			
				Soil Sludge Solid Aqueous																			

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	2/27	15:30	[signature]	2/27/04	1530
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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APPENDIX D

Bill of Lading

ENVIROTECH INC.

Bill of Lading

MANIFEST # 32811

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

DATE 2-27-09 JOB # 08011-0009

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE
	Farfelu well #1 pipeline	LFII	Cont Soil	W-7	12		Vaughn	14	1250	
	"	"	"	W-7	12		Vaughn	14	320	
					24					

RESULTS			LANDFARM EMPLOYEE:	NOTES:
283	CHLORIDE TEST	2	RSK	ENTERED MAR 0 4 2009
	PAINT FILTER TEST	2		

"I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added."

NAME Kenny Kei COMPANY Vaughn SIGNATURE

COMPANY CONTACT PHONE DATE 2 27 09