

3R-1012

**Release Report/ General
Correspondence**

Enterprise RA

Date: Apr-Jun 2014

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office
in accordance with 19.15.29 NMAC.

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company: Enterprise Field Services LLC	Contact: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: Lateral K-31	Facility Type: Natural Gas Gathering Line

Surface Owner: State	Mineral Owner: BLM	API No.
----------------------	--------------------	---------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	16	25N	6W	849		942		San Juan Rio Arriba JK 9/8/2014

Latitude 36.24290 Longitude -108.28688

NATURE OF RELEASE

Type of Release: Natural Gas	Volume of Release: Unknown	Volume Recovered: Unknown
Source of Release: Suspected internal corrosion	Date and Hour of Occurrence: 7/26/2014 @ 8:00 p.m.	Date and Hour of Discovery: 7/26/2014 @ 12:30 a.m.
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? Notification to NMOCD - Cory Smith	
By Whom?	Date and Hour: OIL CONS. DIV DIST. 3	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse AUG 11 2014	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action: A third party reported a possible line leak along the Lateral K-31 pipeline right of way. The pipeline was isolated, blown down, locked out and tagged out while investigating the area to determine the cause of the odor. No surface impacts were observed. Repairs and remediation began the week of July 28, 2104.

Describe Area Affected and Cleanup Action Taken.*: A third party reported a possible line leak along the Lateral K-31 pipeline right of way. The pipeline was isolated, blown down, locked out and tagged out while investigating the area to determine the cause of the odor. No surface impacts were observed. Repairs and remediation began the week of July 28, 2104. A "final" c-141 will be submitted upon receipt of the third party environmental contractor corrective action report.

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: <i>Jon Fields</i>	OIL CONSERVATION DIVISION	
Printed Name: Jon Fields	Approved by Environmental Specialist: <i>Jonathan D. Kelly</i>	
Title: Director, Environmental	Approval Date: <i>9/8/2014</i>	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <i>8-7-2014</i> Phone: (713)381-6684		

* Attach Additional Sheets If Necessary

JK1425156766

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Energy Minerals and Natural Resources

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1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company: Enterprise Field Services LLC	Contact: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: Lindrith Unit #3	Facility Type: Compressor Station

Surface Owner: Jicarilla Tribal Land	Mineral Owner: Jicarilla Tribal Land	API No.
--------------------------------------	--------------------------------------	---------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	18	24N	5W	1865	South	925	East	Rio Arriba

Latitude 36.310617 Longitude -107.396273

NATURE OF RELEASE

Type of Release: Natural Gas/Fire	Volume of Release: 13.75 MCF	Volume Recovered: None
Source of Release: Flow back from a vent line	Date and Hour of Occurrence: 6/6/2014 @ 10:30 a.m.	Date and Hour of Discovery: 6/6/2014 @ 11:31 a.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Cory Smith - NMOCD	
By Whom? Thomas Long	Date and Hour 6/6/2014 @ 5:44 p.m. phone call made	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse	

OIL CONSERV. DIV DIST. 3
JUN 20 2014

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* Unit #3 was shutting down, gas from the post lube started blowing gas through the common vent line, the gas back flowed into the starting gas causing the gas to flash on left hand side of engine. A fire extinguisher was used to put out the fire. No injuries and no environmental impacts occurred.

Describe Area Affected and Cleanup Action Taken.* Unit #3 was shutting down, gas from the post lube started blowing gas through the common vent line, the gas back flowed into the starting gas causing the gas to flash on left hand side of engine. A fire extinguisher was used to put out the fire. No injuries and no environmental impacts occurred.

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Signature: <i>Jon Fields</i>	OIL CONSERVATION DIVISION	
Printed Name: Jon Fields	Approved by Environmental Specialist: <i>Jonathan D. Kelly</i>	
Title: Director, Field Environmental	Approval Date: <i>9/8/2014</i>	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <i>6-17-2014</i> Phone: (713) 381-6684		

* Attach Additional Sheets If Necessary

nSK1425134697

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Santa Fe, NM 87505

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company: Enterprise Field Services LLC	Contact: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: Lateral K-39 Gathering Line	Facility Type: Natural Gas Gathering Line
Surface Owner: BLM	Mineral Owner: BLM
API No.	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	13	25N	7W					Rio Arriba

Latitude 36.04130 Longitude -107.52189

NATURE OF RELEASE

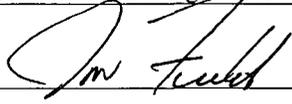
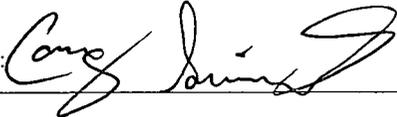
Type of Release: Natural Gas and Natural Gas Liquids	Volume of Release: 8.86 MCF	Volume Recovered: Unknown
Source of Release: Internal Corrosion	Date and Hour of Occurrence: 2/8/2014 @ 2:00 p.m.	Date and Hour of Discovery: 2/8/2014 @ 2:00 p.m.
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? RCVD APR 7 '14	
By Whom?	Date and Hour OIL CONS DIV	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. DIST. 3	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* A release was discovered on the Lateral K-39 Natural Gas Gathering Line. The line was blown down, taken out of service and LOTO (lock out tag out) was applied. An area on the ground surface of approximately 6 feet by 4 feet was impacted by a condensate/water mix.

Describe Area Affected and Cleanup Action Taken.* Repair and Remediation activities were completed on February 21, 2014. Approximately 194 cubic yard of hydrocarbon contaminated soil was excavated and transported to an approved NMOCD land farm facility. A third party corrective action report is included with this "final" c-141.

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: 	OIL CONSERVATION DIVISION	
Printed Name: Jon Fields	Approved by Environmental Specialist: 	
Title: Director, Environmental	Approval Date: 4/21/14	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 4-2-2014	Phone: (713)381-6684	

* Attach Additional Sheets If Necessary

Incident # NCS 141 1141725

Enterprise Products
Lateral K-39 Pipeline Release
Latitude North 36.04130, Longitude West -107.521890
Unit A Section 13 T25N R7W
Rio Arriba County, New Mexico
March 13, 2014

RCVD APR 7 '14
OIL CONS. DIV.
DIST. 3



Submitted To:

Enterprise Products
Field Environmental-San Juan Basin
614 Reilly Avenue
Farmington, NM 87401

Submitted By:

Souder, Miller & Associates
401 West Broadway
Farmington, NM 87401
(505) 325-7535



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Appendix C: Laboratory Analytical Reports

1.0 Executive Summary

On February 13, 18, 19, 20, 2014, Souder, Miller & Associates (SMA) responded to a hydrocarbon release associated with the Lateral K-39 pipeline release. The table below summarizes information about the release and remediation activities.

TABLE 1: RELEASE INFORMATION				
Name	Lateral K-39 Pipeline Release			
Location	Latitude/Longitude		Section, Township, Range	
		36.04130	-107.521890	(NE ¼ /NE ¼) Unit A Section 13
Date Reported	February 8, 2014			
	Thomas Long			
Land Owner	Bureau of Land Management (BLM)			
Reported To	New Mexico Oil Conservation Division (NMOCD) and BLM			
Diameter of Pipeline	6 inches			
Source of Release	Pipe Corrosion			
Release Contents	Natural Gas/Condensate			
Release Volume: Natural Gas	8.86 MCF			
Release Volume: Liquids/Condensate	Unknown			
Nearest Waterway	Tributary of Cibolo Mesa Canyon			
Depth to Groundwater	Greater than 100 feet			
Nearest Domestic Water Source	Greater than 1,000 feet			
NMOCD Ranking	0			
SMA Response Dates	February 13,18,19, 20, and 21, 2014			
Subcontractors	West States Energy and Energy Maintenance Services (EMS)			
Disposal Facility	Envirotech Landfarm			
Yd ³ Contaminated Soil Excavated and Disposed	194			

2.0 Introduction

On behalf of Enterprise Products Operating, LLC. (Enterprise), SMA has prepared this report that describes remediation of a hydrocarbon release associated with the 6-inch pipeline release. The release was due to corrosion of the spiral weld pipeline. Approximately 8.86 thousand cubic feet (MCF) of natural gas was lost and the amount of liquids/condensate released lost is unknown. The release was reported February 8, 2014 and was located in (NE ¼ /NE ¼) Unit A, Section 13, Township 25 North, Range 7 West, 36.04130, -107.521890, Rio Arriba County, New Mexico. Figure 1, Vicinity Map, illustrates the location of the release.

3.0 Site Ranking and Land Jurisdiction

The release site is located approximately 5,500 feet east of an unnamed tributary of Cibolo Mesa Canyon on land owned by BLM with an elevation of approximately 6,905 feet above sea level. After evaluation of the site using aerial photography and topographic maps, depth to groundwater is estimated to be greater than 100 feet below ground surface (bgs).

SMA searched the New Mexico State Engineer's Office online water well data base for water wells in the vicinity of the release. No recorded wells were located within 1,000 feet of the site. Two wells were located within a 1 mile radius of the site. There is no anticipated impact to these wells.

The physical location of this release is within the jurisdiction of BLM and NMOCD. This release location has been assigned a NMOCD ranking of 0, which requires a soil remediation standard of 10 parts per million (ppm) benzene, 50 ppm total benzene, toluene, ethyl-benzene, and total xylenes (BTEX), and 5,000 ppm total petroleum hydrocarbons (TPH). Table 2 illustrates site ranking rationale.

4.0 Summary of Field Activities

On February 13, 2014 SMA mobilized to the release site to oversee excavation activities and to delineate the release area through field screening using a calibrated photoionization detector (PID). Enterprise and West States Energy began excavation activities which were halted due to high levels of benzene. West States Energy was unable to repair the spiral weld pipeline on February 13, 2014. On February 18, Energy Maintenance Services repaired the pipeline using I-Wrap. During the excavation, soil samples were collected for field screening to determine the extent of the release. Under the supervision and direction of SMA, EMS excavated and transported the hydrocarbon

impacted soil for offsite disposal. The soil was transported to Envirotech Landfarm near Bloomfield, NM. Table 3 summarizes the field screening results. Field notes for these events are included in Appendix A.

The final excavation measured approximately 24 feet long by 16 feet wide with an excavation depth of 12 feet below ground surface. Field screening of the excavated material determined that the soils removed were not suitable for use as backfill material. Approximately 194 cubic yards of impacted soil was transported to Envirotech Landfarm.

All laboratory soil samples were field screened with a calibrated PID. Samples meeting field screening criteria were submitted for laboratory analysis per United States Environmental Protection Agency Method 8021 BTEX, and 8015 Diesel Range Organics (DRO) and Gasoline Range Organics (GRO) to Hall Environmental Analysis Laboratory of Albuquerque, New Mexico. Figure 3 illustrates the extent of the excavation and laboratory results.

5.0 Conclusions and Recommendations

As noted in Section 3.0 of this report, NMOCD Guidelines for Remediation of Leaks, Spills, and Releases have established the following action levels for contaminants of concern with a site ranking of 0: 10 ppm benzene, 50 ppm total BTEX, and 5,000 ppm TPH. Laboratory analysis of the excavation detected benzene, total BTEX, and TPH (GRO/DRO) at concentrations below the NMOCD Guidelines for all samples. All samples had non-detectable concentrations of contaminants except for samples SC-12 and SC-25 which contained 12 ppm and 17 ppm of DRO, respectively. The impacted soil was hauled off site for disposal. Soil contaminant concentrations are illustrated in Figure 3. A summary of laboratory analysis is included in Table 4. Laboratory report is included in Appendix D.

SMA recommends no further action at this site.

6.0 Closure and Limitations

The scope of our services consisted of the performance of a preliminary spill assessment and stabilization, regulatory liaison, oversight and control of remediation operations, disposal arrangements and documentation, project management, and preparation of this summary report. All work has been performed in accordance with generally accepted professional environmental consulting practices.

If there are any questions regarding this report, please contact either Steve Moskal or Reid Allan at 505-325-7535.

Submitted by:

Reviewed by:

SOUDER, MILLER & ASSOCIATES

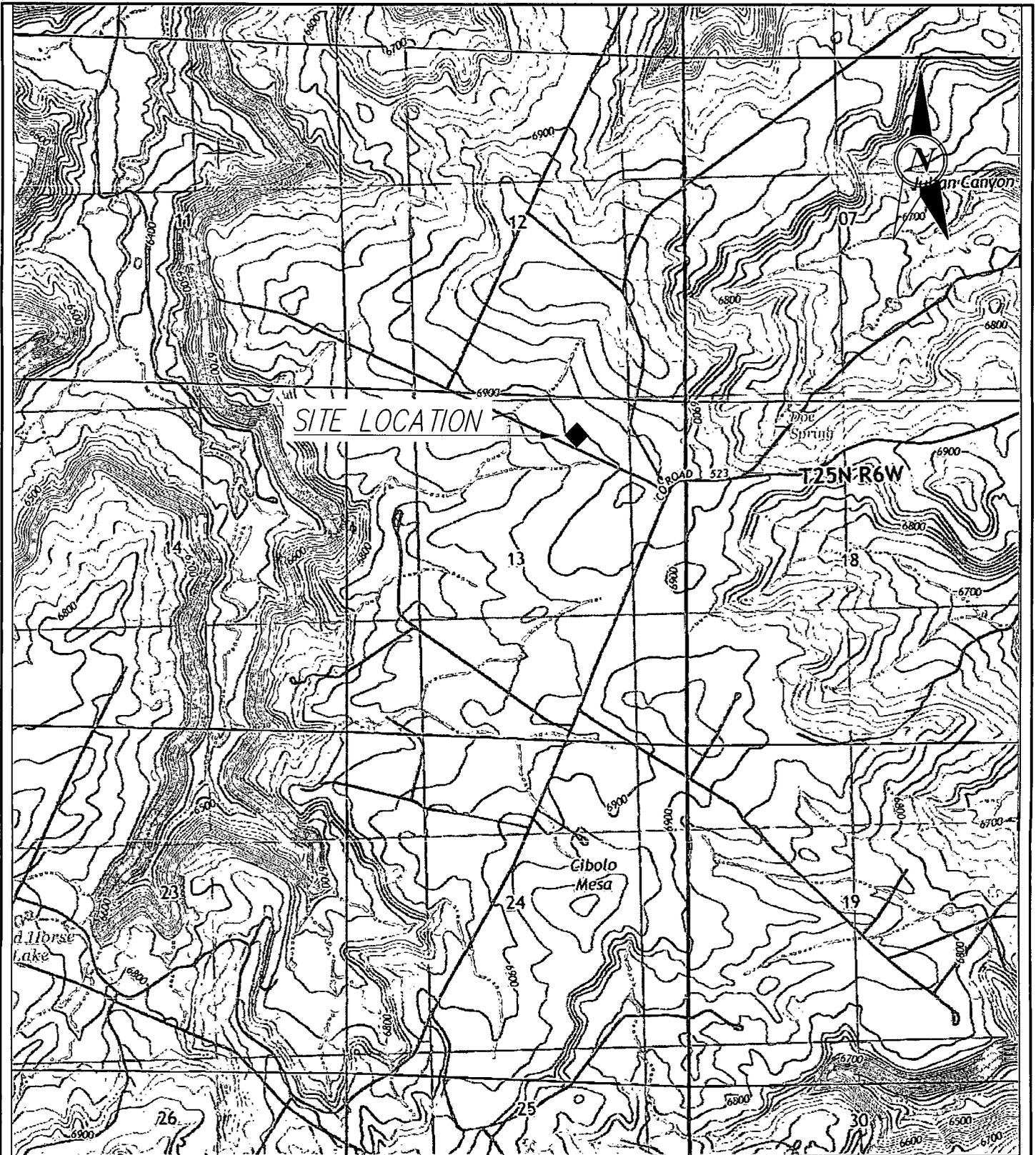


Steve Moskal
Project Scientist



Reid S. Allan, PG
Principal Scientist

FIGURES



SITE LOCATION

T25N R6W

Cibola Mesa

SCALE



SOUDEY, MILLER & ASSOCIATES
 401 W. BROADWAY
 FARMINGTON, NM 87401
 Phone (505) 325-7535 Toll-Free (800) 519-0098 Fax (505) 325-0045
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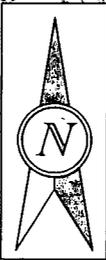
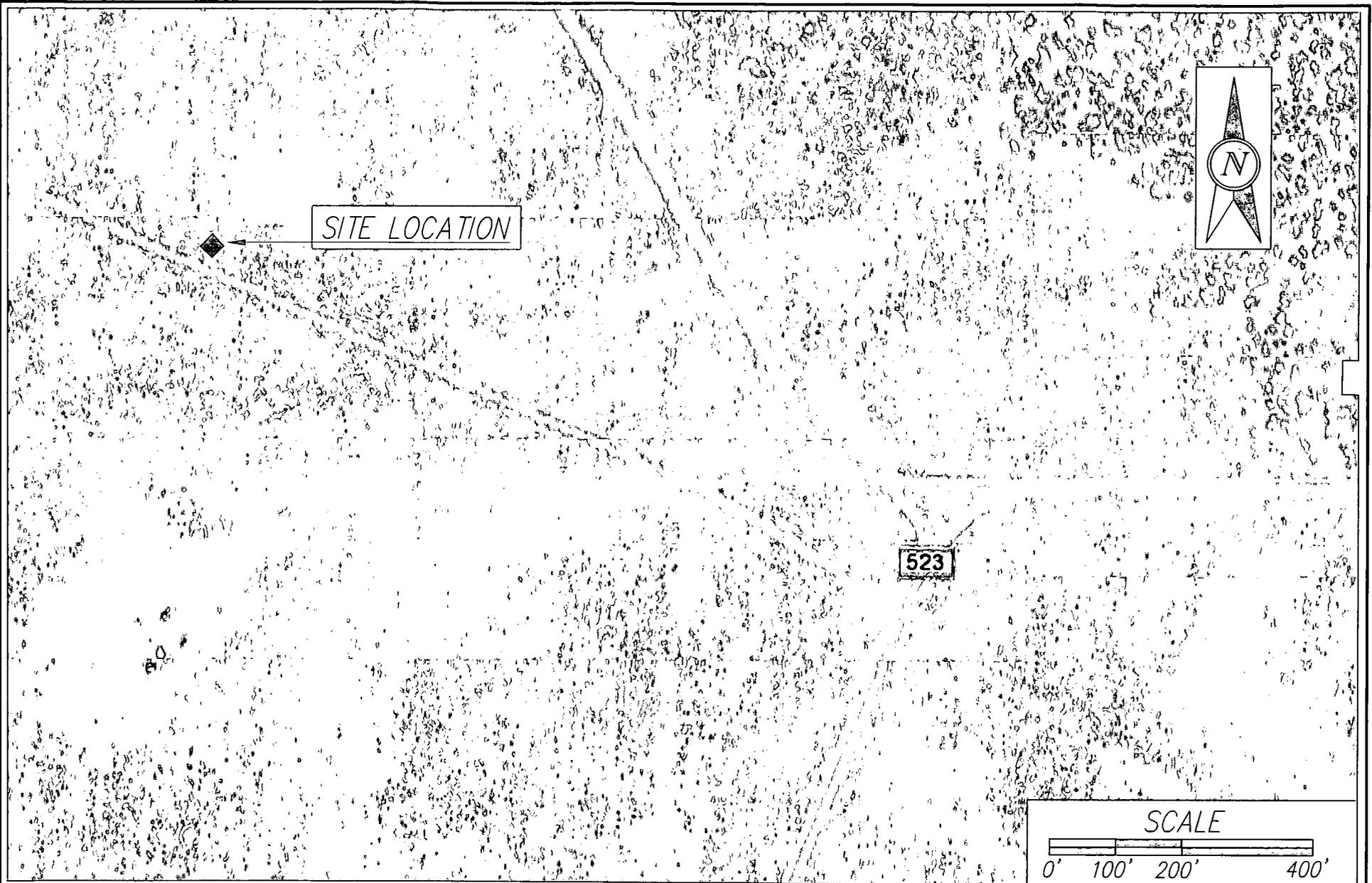
ENTERPRISE

FARMINGTON, NEW MEXICO

VICINITY MAP
 LATERAL K-39
 SECTION 13, T27N, R7W

RIO ARriba COUNTY, NEW MEXICO

Designed	Drawn	Checked
SM	DJB	RSA
Date: 3/5/2014		
Scale: Horiz: 1"=2000'		
Vert: N/A		
Project No: 5122185		
Sheet: 1		



SITE LOCATION

523



SMA
Engineering
Environmental
Surveying

SOUDER, MILLER & ASSOCIATES
401 W. BROADWAY
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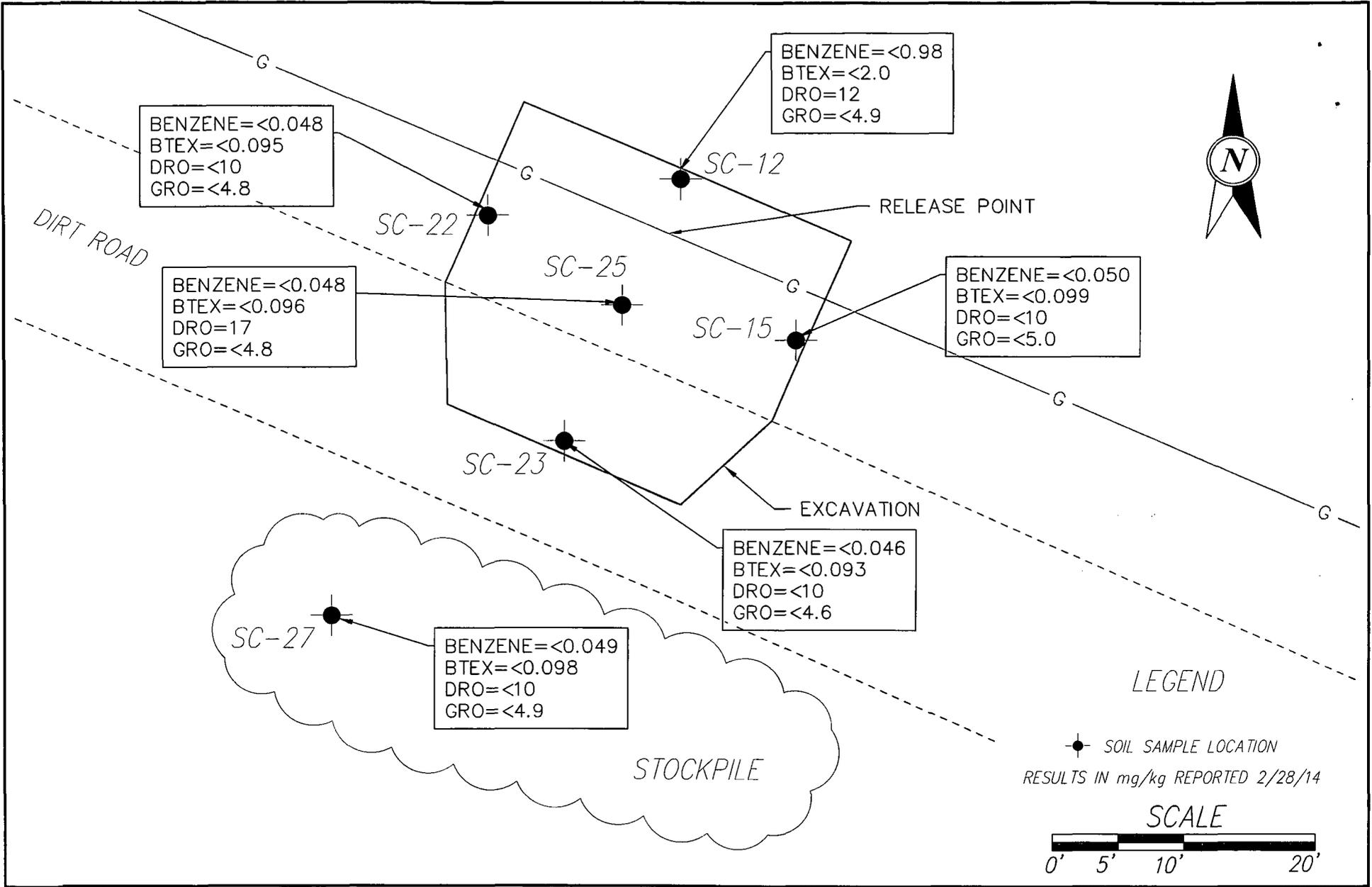
ENTERPRISE

FARMINGTON, NEW MEXICO

Designed SM	Drawn GJF	Checked RSA
Date: 3/5/2014		
Scale: Horiz: 1"=200' Vert: N/A		
Project No: 5122185		
Sheet: 2		

SITE LOCATION MAP
LATERAL K-39
SECTION 13, T27N, R7W

RIO ARriba COUNTY, NEW MEXICO



	SOUDER, MILLER & ASSOCIATES 401 W. BROADWAY FARMINGTON, NM 87401 Phone (505) 325-7535 Toll-Free (800) 519-0098 Fax (505) 325-0045 www.soudermiller.com Serving the Southwest & Rocky Mountains Albuquerque, Farmington, Las Cruces, Roswell, Santa Fe, NM - El Paso, TX Coitza - Grand Junction - Montrose, CO - Safford, AZ - Moab, UT	ENTERPRISE RIO ARriba COUNTY, NEW MEXICO	FARMINGTON, NEW MEXICO	<table border="1"> <tr> <td>Designed SM</td> <td>Drawn DJB</td> <td>Checked RSA</td> </tr> <tr> <td colspan="3">Date: 3/5/2014</td> </tr> <tr> <td colspan="3">Scale: Horiz: 1"=10' Vert: N/A</td> </tr> <tr> <td colspan="3">Project No: 5122185</td> </tr> <tr> <td colspan="3">Sheet: 3</td> </tr> </table>	Designed SM	Drawn DJB	Checked RSA	Date: 3/5/2014			Scale: Horiz: 1"=10' Vert: N/A			Project No: 5122185			Sheet: 3		
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	Date: 3/5/2014																		
	Scale: Horiz: 1"=10' Vert: N/A																		
	Project No: 5122185																		
Sheet: 3																			
SOIL CONTAMINANT CONCENTRATION MAP LATERAL K-39 SECTION 13, T27N, R7W																			

TABLES

Depth to Groundwater	NMOCD Numeric Rank for this Site	Source for Ranking	Notes
< 50 BGS = 20		Verified using Google earth and Topo maps; Field verified.	Groundwater is assumed to be greater than 100 feet below the ground surface.
50' to 99' = 10			
>100' = 0	0		
Ranking Criteria for Horizontal Distance to Nearest Surface Water	NMOCD Numeric Rank for this Site	Source for Ranking	Notes
< 200' = 20		Verified using Google Earth and Topo maps; Field verified.	Release is located approximately 5,500 feet East of an unnamed tributary of Cibolo Mesa Canyon
200'-1000' = 10			
>1000' = 0	0		
Ranking Criteria for Horizontal Distance to a Water Well or Water Source	NMOCD Numeric Rank for this Site	Source for Ranking	Notes
<1000' from a water source? <200' for a private domestic water source? YES OR NO to BOTH. YES = 20, NO = 0	0	New Mexico State Engineer's Office online water well data base	No recorded water wells located with 1,000 feet. Two wells located within a 1 mile radius.
Total Site Ranking	0		
Soil Remedation Standards	0 to 9	10 to 19	>19
Benzene	10 PPM	10 PPM	10 PPM
BTEX	50 PPM	50 PPM	50 PPM
TPH	5000 PPM	1000 PPM	100 PPM



Enterprise Products
 Table 3: Summary of Excavation
 Field Screening Results (PPM)

Lateral K-39
 Pipeline Release
 3/13/2014

FIELD SCREENING RESULTS SUMMARY					
Date	Time	Field screening Reference	Sample Depth (Feet BGS)	PID Reading	Lab Sample Collected Y/N
2/13/2014	10:51	SC-1 S Wall	2.0	1330.0	N
2/13/2014	10:53	SC-2 N Wall	2.0	156.9	N
2/13/2014	10:55	SC-3 W Wall	2.0	455.7	N
2/13/2014	10:57	SC-4 E Wall	2.0	193.8	N
2/13/2014	10:59	SC-5 NW Stockpile	4.0	2638.0	N
2/13/2014	11:01	SC-6 SW Stockpile	4.0	3728.0	N
2/13/2014	11:04	SC-7 SE Stockpile	4.0	2505.0	N
2/13/2014	11:40	SC-8 12' NE RP	1.0	446.2	N
2/13/2014	11:45	SC-8 12' NE RP	2.0	445.7	N
2/13/2014	11:50	SC-8 12' NE RP	3.0	590.1	N
2/13/2014	12:05	SC-8 12' NE RP	4.0	278.3	N
2/18/2014	11:40	SC-1: 12' N	3.0	1779.0	N
2/18/2014	12:00	SC-2 NE (15' NW of RP)	3.0	99.0	N
2/18/2014	12:02	SC-3 15' NE of RP)	3.0	256.0	N
2/18/2014	12:05	SC-4 RP	6.0	1749.0	N
2/18/2014	12:25	SC-5 E Wall	5.0	53.0	N
2/18/2014	12:26	SC-6 S Floor RP	7.0	772.0	N
2/18/2014	12:27	SC-7 W Wall	3.0	308.0	N
2/18/2014	13:05	SC-6	10.0	662.0	N
2/18/2014	13:10	SC-8 SE corner 15' from RP	4.0	169.0	N
2/18/2014	13:15	SC-9 S Wall 8' S of RP	4.0	609.0	N
2/18/2014	13:40	SC-10 SW Stockpile	0.0	98.0	N
2/18/2014	13:45	SC-11 W Wall	4.0	246.0	N
2/18/2014	13:49	SC-12 N Wall 15' from RP	6.0	449.0	N
2/19/2014	11:03	SC-12 N Wall 15' from RP	8.0	1418.0	N
2/19/2014	10:52	SC-9 S Wall 10' S of RP	8.0	735.4	N
2/19/2014	10:54	SC-5 E Wall 10' E. of RP	8.0	666.1	N
2/19/2014	10:55	SC-11 W Wall 10' W of RP	8.0	662.8	N
2/19/2014	13:15	SC-13 S. Wall 15' from RP	9.0	326.7	N
2/19/2014	14:05	SC-14 18' S. of RP	2.0	517.3	N
2/19/2014	14:08	SC-15 E Wall 18' from RP	12.0	140.7	N
2/19/2014	14:17	SC-16 20' S. of RP	1.0	68.7	N
2/19/2014	15:05	SC-17 NW corner 18' from RP	11.0	109.6	N
2/19/2014	15:40	SC-18 SW corner 18' from RP	12.0	263.2	N
2/20/2014	10:38	SC-19 21' S of RP	11.0	553.8	N
2/20/2014	10:40	SC-20 21' SW RP (black staining)	4.0	190.4	N
2/20/2014	11:00	SC-21 22' SE of RP	11.0	160.2	N
2/20/2014	11:25	SC-12 N Wall 15' from RP	12.0	97.2	Y
2/20/2014	11:30	SC-22 W Wall 13' from RP	12.0	36.9	Y
2/20/2014	11:55	SC-23 S Wall 25' from RP	12.0	37.1	Y
2/20/2014	11:58	SC-24 SW Wall 24' from RP	12.0	84.5	N
2/20/2014	12:01	SC-25 W Stockpile Base (bedrock)	12.0	41.6	Y
2/20/2014	12:27	SC-15 E Wall 18' from RP	12.0	83.2	Y
2/20/2014	13:22	SC-27 W Stockpile	12.0	33.6	Y
2/20/2014	13:25	SC-26 Mid Stockpile	12.0	221.8	N



LABORATORY ANALYTICAL SUMMARY							
Date	Time	Sample ID	Sample Depth (Feet BGS)	Method 8015 GRO	Method 8015 DRO	Method 8021 Benzene	Method 8021 BTEX
NMOCD Guidelines		NMOCD Site Ranking: 0		5,000 ppm		10 ppm	50 ppm
2/20/2014	11:22	SC-12: N. Wall	12.0	<4.9	12.0	<0.98	<2.0
2/20/2014	11:30	SC-22: W. Wall	12.0	<4.8	<10	<0.048	<0.095
2/20/2014	11:55	SC-23: S. Wall	12.0	<4.6	<10	<0.046	<0.093
2/20/2014	12:01	SC-27: W. Stockpile	12.0	<4.9	<10	<0.049	<0.098
2/20/2014	12:27	SC-15: E. Wall	12.0	<5.0	<10	<0.050	<0.099
2/20/2014	13:22	SC-25: Base Bedrock	12.0	<4.8	17.0	<0.048	<0.096



APPENDIX A
FIELD NOTES

Release Information

Name	Lateral K-39 2/13/14
Location	Latitude/Longitude
	36.40465, 107.52157°
	Section, Township, Range
	S13, T25N, R7W
Reported To	Tom Long
Area Supervisor	Keith Roddy ; Matt Melvin Field operations
Diameter of Pipeline	6" (?)
Source of Release	Spiral weld pipe
Release Contents	Nat. Gas/condensate
Release Volume	? unknown
Subcontractor	West States (2/13/14)
Disposal Facility	✗ Envirotech Landfarm, Hill Top
Yd³ Contam. Soil	✗ approx 200 yds ³
PO/WO/AFE	WO # 568679

Notes: Spiral weld pipe could not be repaired by West States Energy Contractors. Ems is to be scheduled to I-wrap pipe. High Benzene in excavation, no entry (2/13/14)

CHECKED

BY

- SMA on site @ 11:15, EMS Excavating and exporting material. EMS imported \approx 4 truck loads and stockpiled on site.

- Excavate around pipeline release. EMS Repaired pipeline using Trenching

- Excavation \approx 24' L X 10' D X 16' W

- off site \approx 1530

2/19/14

- on site \approx 10:15, EMS continues excavation, importing clean fill, exporting contaminated soil. (Approx 140 yds³ at end of day)

- off site 1600

2/20/14

- S. worked on site @ \approx 10:30, EMS ~~continued~~ continued to excavate S. portion of excavation (across access road)

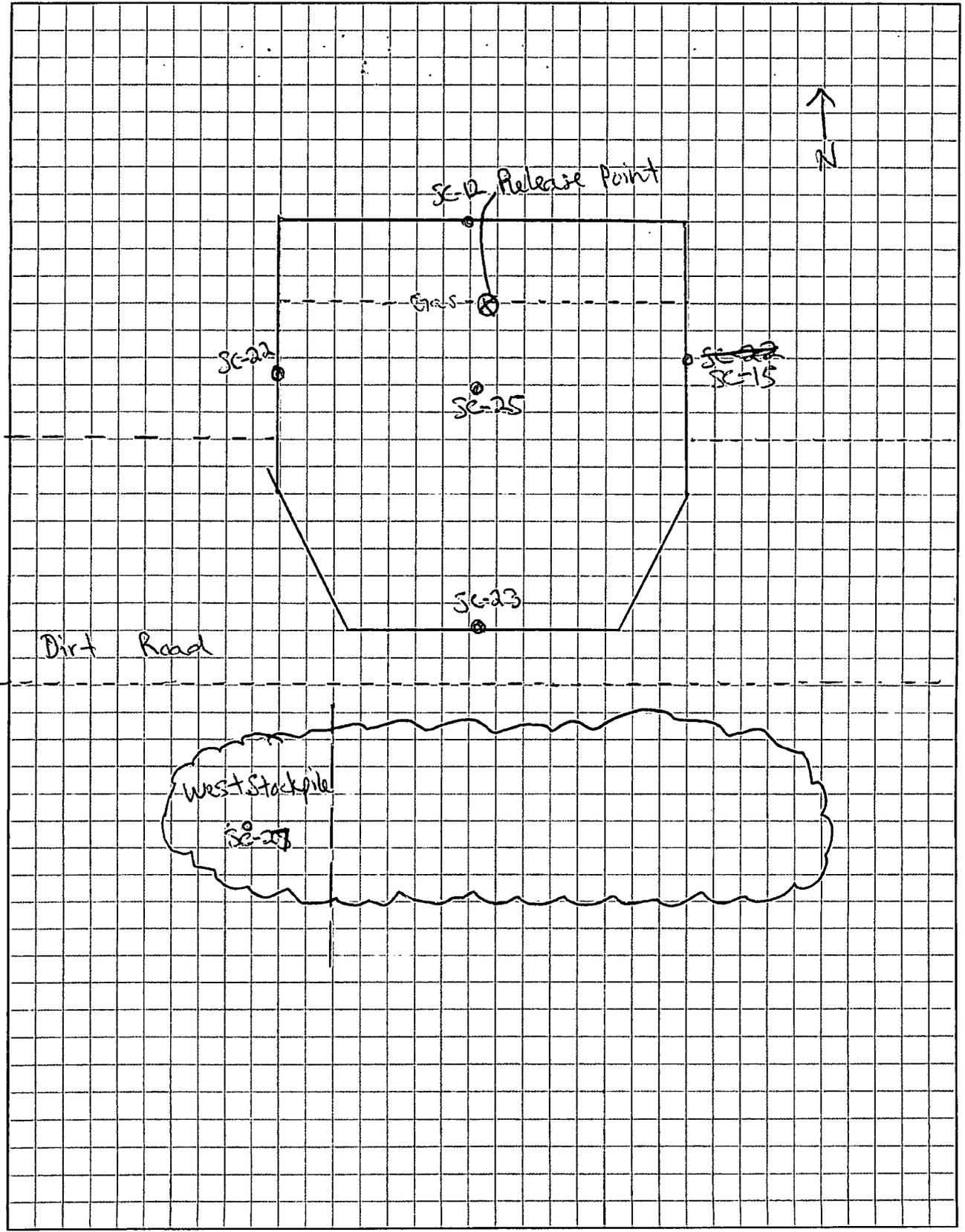
- collect closure samples: Hit bedrock @ 12'

- Screen W. stockpile and is ok for backfill use. collect confirmation lab sample.

- off site @ 14:30

CHECKED

BY



Field Screening

Location Name				Date	
Latool K-3A				2/18/14	
Location Name	Description	Depth (Feet BGS)	Time Collected	Time Screened	PID Reading (ppm)
SC-1 @ 3'	12' N	3'	11:40	11:55	1779
SC-2 @ 3'	NE corner (15' NW FRP)	3'	12:00	12:15	99
SC-3	NE corner (15' NE FRP)	3'	12:02	12:16	256
SC-4	RP	6'	12:05	12:17	1749
SC-5	SE Wall	5'	12:25	12:38	53
SC-6	S Floor RP	7'	12:26	12:39	772
SC-7	W Wall	3'	12:27	12:40	308
SC-8	"	10'	13:05	13:10	662
SC-8	SE corner 15' from RP	4'	13:10	13:20	169
SC-9	S wall 8' S of RP	4'	13:15	13:22	609
SC-10	SW stockpile		13:40	13:58	98
SC-11	W Wall	4'	13:45	14:00	246
SC-12	N Wall (15' from RP)	6'	13:47	14:01	449

Field Screening

Location Name				Date	
Lateral K-39				2/19/14 2/18/14	
Location Name	Description	Depth (Feet BGS)	Time Collected	Time Screened	PID Reading (ppm)
SC-12 N. wall	15' N. of RP	8'	1050	1103	141.8
SC-9 S. wall	10' S. of RP	8'	1052	1104	735.4
SC-5 E. wall	10' E. of RP	8'	1054	1105	666.1
SC-11 W. wall	10' W. of RP	8'	1055	1106	662.8
SC-13 S. wall	S. wall 15' from RP	9'	1315	1330	326.7
SC-14	18' S. RP	20'	1405	1412	517.3
SC-15	RP E. wall 18' from RP	12'	1408	1413	140.7
SC-16	20' S. RP	1'	1417	1425	68.7
SC-17	NW corner 18' from RP	11'	1505	1515	109.6
S-18	SW corner 18' from RP	12'	1540	1550	263.2

Field Screening

Location Name				Date	
Lateral K-39				2/20/14	
Location Name	Description	Depth (Feet BGS)	Time Collected	Time Screened	PID Reading (ppm)
SC-19	21' S. RP	11'	1038	1050	553.8
SC-20	21 SW RP (Black staining)	4'	1040	1051	190.4
SC-21	22' SE of RP	11'	1100	1110	160.2
SC-12	N wall 15' from RP	12'	1125	1142	97.2
SC-22	W wall 13' from RP	12'	1130	1143	36.9
SC-23	S. wall ≈ 25' from RP	12'	1155	1210	37.1
SC-24	SW wall ≈ 24' from RP	12'	1158	1211	84.5
SC-25	W. Stockpile (Bar) (Bedrock)	12'	1201	1212	41.6
SC-26 SC-15	E. wall 18' from RP	12'	1227	1250	83.2
SC-27	SW. Stockpile	from 12'	1322	1338	33.6
SC-26	mid Stockpile	from 12'	1325	1339	221.8

CHECKED

BY

→ Masked on site @ 1030, conduct SMA tailgate safety
- West States Energy Contractors & EPCO excavated pipeline (11'w, 18'L). High benzene in excavation, no entry.
- EPCO tentatively scheduled to J-wrap the pipe line on Tuesday 2/18/14
- Hand auger approx 12' to NE of R.P. Hit dry material that would not stay in auger bucket @ 24.25' bgs.
- Off site @ 12:30

Field Screening

Location Name				Date	
Lateral K-39				2/13/14	
Location Name	Description	Depth (Feet BGS)	Time Collected	Time Screened	PID Reading (ppm)
SC-1	S wall @ 2'	2'	1051	1120	1330
SC-2	N wall @ 2'	2'	1053	1121	156.9
SC-3	W. wall	2'	1055	1122	455.7
SC-4	E. wall	2'	1057	1123	193.8
SC-5	NW Stockpile	Excavation to 4' bgs	1059	1124	2683
SC-6	SW Stockpile	"	1101	1125	3728
SC-7	SE Stockpile	"	1104	1126	2505
SC-8	12' NE RP	1'	1140	1155	446.2
SC-8	" " " 36.40489°, 107.52161°	2'	1145	1201	445.7
SC-8	" " "	3'	1150	1207	590.1
SC-8	" " " refusal (dry)	4'	1205	1209	278.3

APPENDIX B
SITE PHOTOGRAPHY

Site Photographs
Enterprise Products Lateral K-39 Pipeline Release

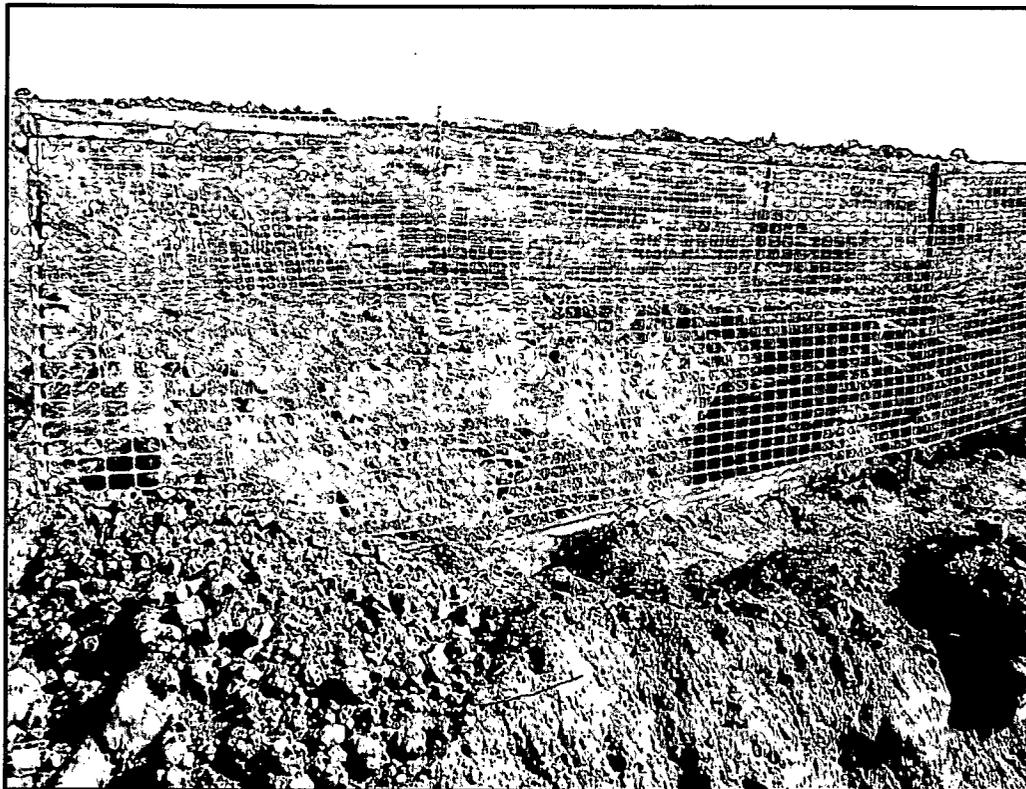


Photo 1: Photo of the Lateral K-39 Pipeline release point during the beginning of excavation activities.



Photo 2: View during the beginning of the Lateral K-39 Pipeline excavation, facing west.

Site Photographs
Enterprise Products Lateral K-39 Pipeline Release



Photo 3: Continued excavation of the Lateral K-39 Pipeline, facing east.



Photo 4: View of the total extent of the Lateral K-39 Pipeline excavation, facing west.

Site Photographs
Enterprise Products Lateral K-39 Pipeline Release

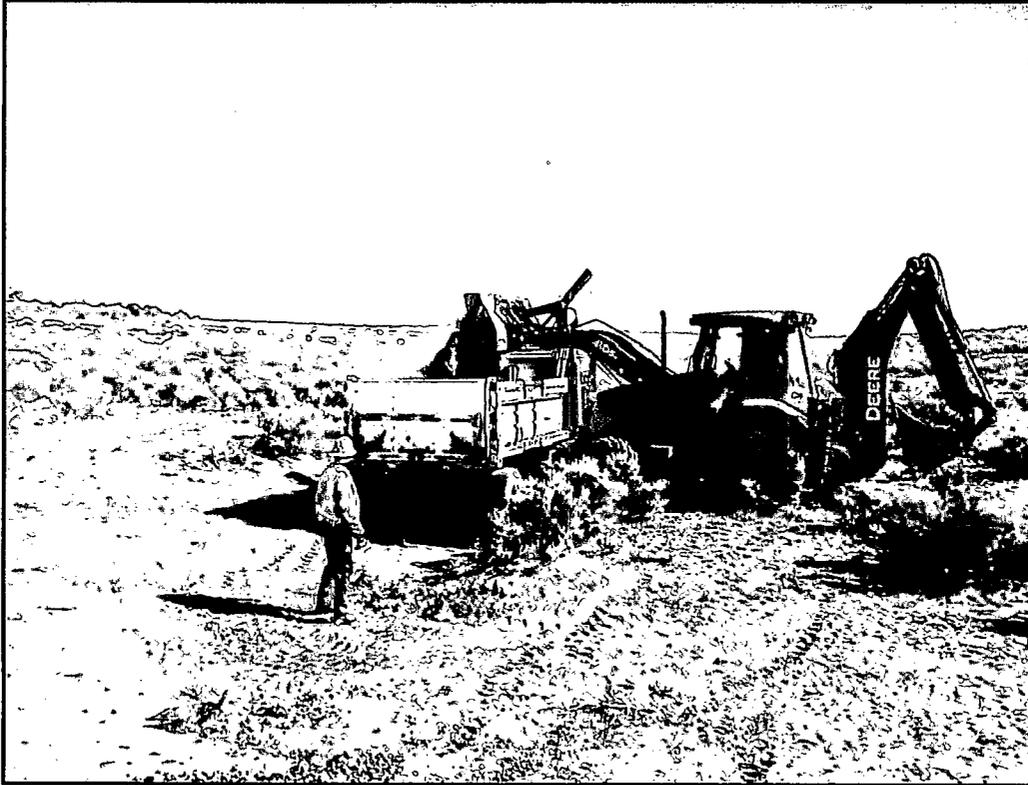


Photo 5: Photo documentation of contaminated soils being loaded for offsite disposal.

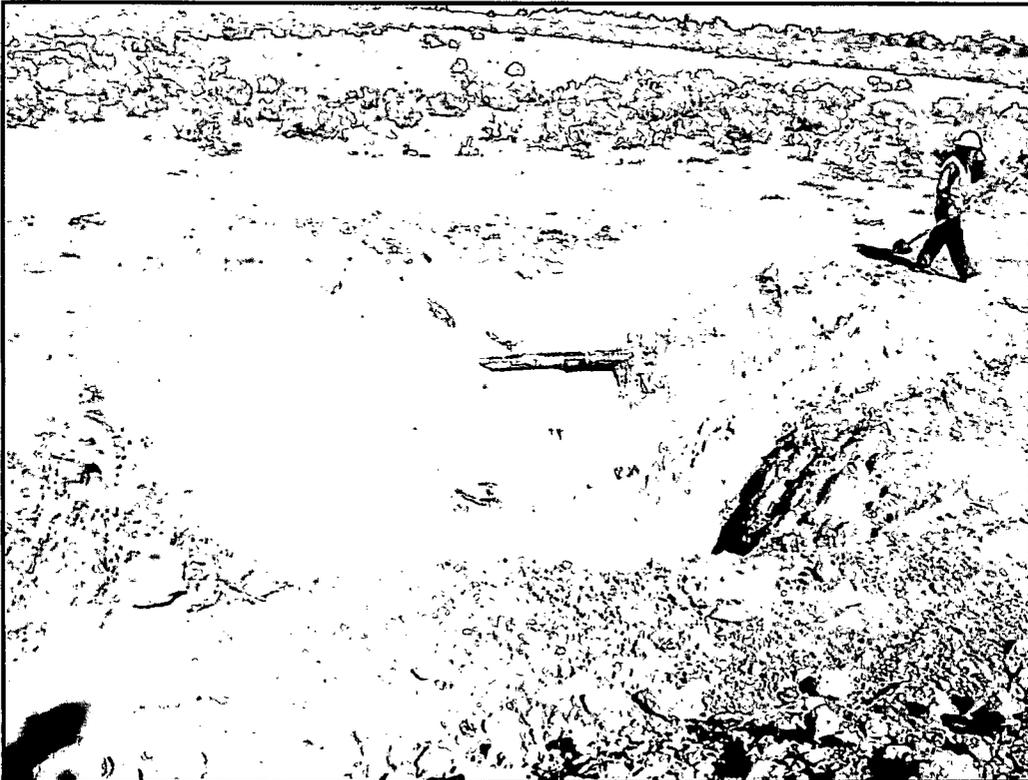


Photo 6: Backfilling of the Lateral K-39 Pipeline excavation, facing north.

APPENDIX C
SOIL DISPOSAL DOCUMENTATION

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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

Form C-138
Revised August 1, 2011

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

*Surface Waste Management Facility Operator
and Generator shall maintain and make this
documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address: Enterprise Field Services, LLC, 614 Reilly Avenue, Farmington, NM 87401
2. Originating Site: Lateral K-39 Natural Gas Gathering Line
3. Location of Material (Street Address, City, State or ULSTR): Unit A, Section 13, T25N, R7W; 36.40413, -107.52189
4. Source and Description of Waste: Hydrocarbon impacted soils associated with a release from a natural gas gathering line. 5. Estimated Volume <u>50</u> <u>yd³</u> bbls Known Volume (to be entered by the operator at the end of the haul) _____ yd ³ / bbls
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS I, <u>Thomas Long</u> <i>Thomas Long</i> representative or authorized agent for <u>Enterprise Field Services, LLC</u> do hereby PRINT & SIGN NAME COMPANY NAME certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification) <input checked="" type="checkbox"/> RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. <u>Operator Use Only: Waste Acceptance Frequency</u> <input type="checkbox"/> Monthly <input type="checkbox"/> Weekly <input type="checkbox"/> Per Load <input type="checkbox"/> RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items) <input type="checkbox"/> MSDS Information <input type="checkbox"/> RCRA Hazardous Waste Analysis <input type="checkbox"/> Process Knowledge <input type="checkbox"/> Other (Provide description in Box 4) GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS I, <u>Thomas Long</u> <i>Thomas Long</i> 2-13-14, representative for <u>Enterprise Field Services, LLC</u> authorize Envirotech to Generator Signature complete the required testing/sign the Generator Waste Testing Certification. I, _____, representative for <u>Envirotech, Inc.</u> do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.
6. Transporter: West States Energy Contractors (WSEC)

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Envirotech Inc. Soil Remediation Facility Permit # NM-01-0011
Address of Facility: #43 Road 7175, South of Bloomfield NM
Method of Treatment and/or Disposal:

Evaporation Injection Treating Plant Landfarm Landfill Other

Waste Acceptance Status:

APPROVED

DENIED (Must Be Maintained As Permanent Record)

PRINT NAME: _____

TITLE: _____

DATE: _____

SIGNATURE: _____

TELEPHONE NO.: _____

Surface Waste Management Facility Authorized Agent



Bill of Lading

MANIFEST # 46006

DATE 2-20-14 JOB # 97057-0621

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

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLs	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	Enterpris lot K 39	LFII-5	CONC .5016	F-29	12	-	EMS	1	11:32	Erick Seely
2	"	"	"	F-29	12	-	EMS	1	15:20	Erick Seely
					24					
RESULTS:		LANDFARM EMPLOYEE:		NOTES:						
<291	CHLORIDE TEST	1								
	PAINT FILTER TEST	1	Certification of above receipt & placement							

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

TRANSPORTER CO. EMS NAME Erick Seely SIGNATURE Erick Seely
 COMPANY CONTACT Mike Sanchez PHONE (505) 793-4426 DATE 2-20-14

Signatures required prior to distribution of the legal document.



Bill of Lading

MANIFEST # 46005

DATE 2.20.14 JOB # 97057-0621

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

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLs	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	Enterprise lot # 39	LFII.5	CON: + SOIL	F 29 ²⁹	10	-	YUCCA	AF4	1127	
2	"	"	"	F-29	10	-	"	AF4	15:50	
					20					
RESULTS:			LANDFARM EMPLOYEE: <u>Cary Robinson</u> EL			NOTES:				
<291	CHLORIDE TEST	1	Certification of above receipt & placement							
	PAINT FILTER TEST	1								

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with, I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

TRANSPORTER CO. Yucca NAME Denny Armenta SIGNATURE

COMPANY CONTACT Mike (ems) PHONE 505 293-4426 DATE 2.20.14

Signatures required prior to distribution of the legal document.



Bill of Lading

MANIFEST # 46004
 DATE 2-20-14 JOB # 97057-0624

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

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLs	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	Enterprise Lot K-39	LFII-5	cont soil	F-29	10	-	Ritchey	271	1127	<i>[Signature]</i>
2	u	uu	uu	F-29	10	-	"	271	15:50	<i>[Signature]</i>
					20					<i>[Signature]</i>
RESULTS:		LANDFARM EMPLOYEE:	<i>Ray Robinson</i> EL			NOTES:				
<291	CHLORIDE TEST	1	Certification of above receipt & placement							
	PAINT FILTER TEST	1								

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

TRANSPORTER CO. Ritchey NAME *[Signature]* SIGNATURE *[Signature]*
 COMPANY CONTACT Mike (ems) PHONE 505-793-4426 DATE 2-20-14

Signatures required prior to distribution of the legal document.



Bill of Lading

MANIFEST # 45991

DATE 2-15-14 JOB # 97057-0621

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

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLs	COMPANY	TRK#	TIME	DRIVER SIGNATURE
2	Enterprise Lab K-39	LFE-3	cont SOIL	E-29	18	-	Ritchey's	71	12:35	[Signature]
2	"	"	"	E-29	18	-	"	"	71	17:10 [Signature]
					36					
RESULTS:			LANDFARM EMPLOYEE:	NOTES:						
< 291	CHLORIDE TEST	1	[Signature]							
	PAINT FILTER TEST	1	Certification of above receipt & placement							

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

TRANSPORTER CO. Ritchey NAME Elwin T Ritchey SIGNATURE [Signature]
 COMPANY CONTACT S. Amick PHONE 793 4444 DATE _____

Signatures required prior to distribution of the legal document.

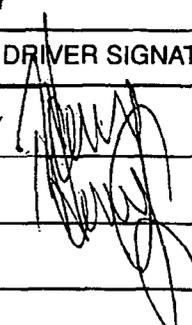
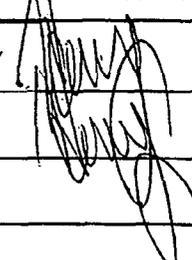
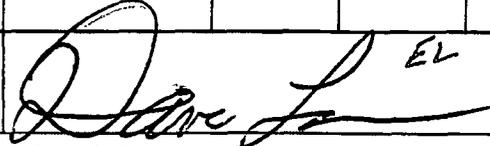


Bill of Lading

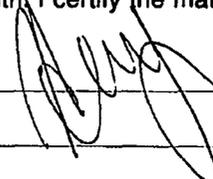
MANIFEST # 45990

DATE 2-19-14 JOB # 97057-0621

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

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLs	COMPANY	TRK#	TIME	DRIVER SIGNATURE
<u>1</u>	<u>Enterprise Cat</u> <u>K-39</u>	<u>LFF-5</u>	<u>cont</u> <u>soil</u>	<u>E-29</u>	<u>18</u>	<u>-</u>	<u>YUCCA</u>	<u>AF-4</u>	<u>12:35</u>	
<u>2</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>E-29</u>	<u>18</u>	<u>-</u>	<u>"</u>	<u>"</u>	<u>AF-4 12:10</u>	
					<u>36</u>					
RESULTS:			LANDFARM EMPLOYEE: <u>EL</u> 			NOTES:				
<u><291</u>	CHLORIDE TEST	<u>1</u>	Certification of above receipt & placement							
	PAINT FILTER TEST	<u>1</u>								

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

TRANSPORTER CO. Yucca NAME Denny Armenta SIGNATURE 
 COMPANY CONTACT _____ PHONE _____ DATE _____

Signatures required prior to distribution of the legal document.



Bill of Lading

MANIFEST # 45973
 DATE 2-18-14 JOB # 99057-0621

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

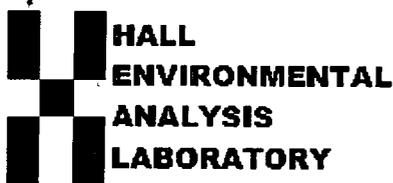
LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY				
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLs	COMPANY	TRK#	TIME	DRIVER SIGNATURE	
2	Enterprise LAT K39	LF-5	cont SOIC	F-29	20	-	Ritchey's	571	13:10	<i>[Signature]</i>	
2	" "	" "	" "	E-29	20	-	Ritchey's	571	17:28	<i>[Signature]</i>	
					40						
RESULTS:		LANDFARM EMPLOYEE:	<i>[Signature]</i> EL Certification of above receipt & placement						NOTES:		
<291	CHLORIDE TEST	1							NOTES:		
	PAINT FILTER TEST	1							NOTES:		

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

TRANSPORTER CO. Ritchey NAME Clavin T Ritchey SIGNATURE *[Signature]*
 COMPANY CONTACT Same PHONE 793 4424 DATE Feb-18-14

Signatures required prior to distribution of the legal document.

APPENDIX C
LABORATORY ANALYTICAL REPORTS



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

February 28, 2014

Steve Moskal
Souder, Miller and Associates
401 W. Broadway
Farmington, NM 87401
TEL: (505) 325-5667
FAX (505) 327-1496

RE: Lateral K-39

OrderNo.: 1402839

Dear Steve Moskal:

Hall Environmental Analysis Laboratory received 6 sample(s) on 2/21/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Souder, Miller and Associates**Client Sample ID:** N. Wall @ 12' (SC-12)**Project:** Lateral K-39**Collection Date:** 2/20/2014 11:20:00 AM**Lab ID:** 1402839-001**Matrix:** SOIL**Received Date:** 2/21/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	12	9.9		mg/Kg	1	2/26/2014 9:56:06 AM	11854
Surr: DNOP	85.7	66-131		%REC	1	2/26/2014 9:56:06 AM	11854
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JMP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/24/2014 3:58:07 PM	11849
Surr: BFB	81.0	74.5-129		%REC	1	2/24/2014 3:58:07 PM	11849
EPA METHOD 8021B: VOLATILES							Analyst: JMP
Benzene	ND	0.98		mg/Kg	1	2/24/2014 3:58:07 PM	11849
Toluene	ND	0.98		mg/Kg	1	2/24/2014 3:58:07 PM	11849
Ethylbenzene	ND	0.98		mg/Kg	1	2/24/2014 3:58:07 PM	11849
Xylenes, Total	ND	2.0		mg/Kg	1	2/24/2014 3:58:07 PM	11849
Surr: 4-Bromofluorobenzene	92.0	80-120		%REC	1	2/24/2014 3:58:07 PM	11849

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: W. Wall @ 12' (SC-22)

Project: Lateral K-39

Collection Date: 2/20/2014 11:30:00 AM

Lab ID: 1402839-002

Matrix: SOIL

Received Date: 2/21/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/25/2014 2:09:35 PM	11854
Surr: DNOP	87.2	66-131		%REC	1	2/25/2014 2:09:35 PM	11854
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JMP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/24/2014 6:20:49 PM	11849
Surr: BFB	83.2	74.5-129		%REC	1	2/24/2014 6:20:49 PM	11849
EPA METHOD 8021B: VOLATILES							Analyst: JMP
Benzene	ND	0.048		mg/Kg	1	2/24/2014 6:20:49 PM	11849
Toluene	ND	0.048		mg/Kg	1	2/24/2014 6:20:49 PM	11849
Ethylbenzene	ND	0.048		mg/Kg	1	2/24/2014 6:20:49 PM	11849
Xylenes, Total	ND	0.095		mg/Kg	1	2/24/2014 6:20:49 PM	11849
Surr: 4-Bromofluorobenzene	95.2	80-120		%REC	1	2/24/2014 6:20:49 PM	11849

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: S. Wall @ 12' (SC-23)

Project: Lateral K-39

Collection Date: 2/20/2014 11:55:00 AM

Lab ID: 1402839-003

Matrix: SOIL

Received Date: 2/21/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/25/2014 2:32:01 PM	11854
Surr: DNOP	87.8	66-131		%REC	1	2/25/2014 2:32:01 PM	11854
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JMP
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	2/24/2014 7:18:06 PM	11849
Surr: BFB	80.0	74.5-129		%REC	1	2/24/2014 7:18:06 PM	11849
EPA METHOD 8021B: VOLATILES							Analyst: JMP
Benzene	ND	0.046		mg/Kg	1	2/24/2014 7:18:06 PM	11849
Toluene	ND	0.046		mg/Kg	1	2/24/2014 7:18:06 PM	11849
Ethylbenzene	ND	0.046		mg/Kg	1	2/24/2014 7:18:06 PM	11849
Xylenes, Total	ND	0.093		mg/Kg	1	2/24/2014 7:18:06 PM	11849
Surr: 4-Bromofluorobenzene	88.9	80-120		%REC	1	2/24/2014 7:18:06 PM	11849

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: W. Stockpile (SC-27)

Project: Lateral K-39

Collection Date: 2/20/2014 12:01:00 PM

Lab ID: 1402839-004

Matrix: SOIL

Received Date: 2/21/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/25/2014 2:54:23 PM	11854
Surr: DNOP	69.2	66-131		%REC	1	2/25/2014 2:54:23 PM	11854
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JMP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/25/2014 11:12:18 AM	11849
Surr: BFB	83.6	74.5-129		%REC	1	2/25/2014 11:12:18 AM	11849
EPA METHOD 8021B: VOLATILES							Analyst: JMP
Benzene	ND	0.049		mg/Kg	1	2/25/2014 11:12:18 AM	11849
Toluene	ND	0.049		mg/Kg	1	2/25/2014 11:12:18 AM	11849
Ethylbenzene	ND	0.049		mg/Kg	1	2/25/2014 11:12:18 AM	11849
Xylenes, Total	ND	0.098		mg/Kg	1	2/25/2014 11:12:18 AM	11849
Surr: 4-Bromofluorobenzene	95.6	80-120		%REC	1	2/25/2014 11:12:18 AM	11849

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:			
*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: E. Wall @ 12' (SC-15)

Project: Lateral K-39

Collection Date: 2/20/2014 12:27:00 PM

Lab ID: 1402839-005

Matrix: SOIL

Received Date: 2/21/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/25/2014 3:16:57 PM	11854
Surr: DNOP	70.9	66-131		%REC	1	2/25/2014 3:16:57 PM	11854
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JMP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/24/2014 8:15:16 PM	11849
Surr: BFB	82.8	74.5-129		%REC	1	2/24/2014 8:15:16 PM	11849
EPA METHOD 8021B: VOLATILES							Analyst: JMP
Benzene	ND	0.050		mg/Kg	1	2/24/2014 8:15:16 PM	11849
Toluene	ND	0.050		mg/Kg	1	2/24/2014 8:15:16 PM	11849
Ethylbenzene	ND	0.050		mg/Kg	1	2/24/2014 8:15:16 PM	11849
Xylenes, Total	ND	0.099		mg/Kg	1	2/24/2014 8:15:16 PM	11849
Surr: 4-Bromofluorobenzene	92.7	80-120		%REC	1	2/24/2014 8:15:16 PM	11849

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Souder, Miller and Associates**Client Sample ID:** Base-Bedrock @ 12' (SC-25)**Project:** Lateral K-39**Collection Date:** 2/20/2014 1:22:00 PM**Lab ID:** 1402839-006**Matrix:** SOIL**Received Date:** 2/21/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	17	10		mg/Kg	1	2/25/2014 3:42:25 PM	11854
Surr: DNOP	69.4	66-131		%REC	1	2/25/2014 3:42:25 PM	11854
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JMP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/25/2014 11:40:55 AM	11849
Surr: BFB	83.3	74.5-129		%REC	1	2/25/2014 11:40:55 AM	11849
EPA METHOD 8021B: VOLATILES							Analyst: JMP
Benzene	ND	0.048		mg/Kg	1	2/25/2014 11:40:55 AM	11849
Toluene	ND	0.048		mg/Kg	1	2/25/2014 11:40:55 AM	11849
Ethylbenzene	ND	0.048		mg/Kg	1	2/25/2014 11:40:55 AM	11849
Xylenes, Total	ND	0.096		mg/Kg	1	2/25/2014 11:40:55 AM	11849
Surr: 4-Bromofluorobenzene	94.9	80-120		%REC	1	2/25/2014 11:40:55 AM	11849

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1402839

28-Feb-14

Client: Souder, Miller and Associates

Project: Lateral K-39

Sample ID	LCS-11854	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	11854	RunNo:	16940					
Prep Date:	2/24/2014	Analysis Date:	2/25/2014	SeqNo:	487667	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.5	60.8	145			
Surr: DNOP	4.2		5.000		83.2	66	131			

Sample ID	MB-11854	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	11854	RunNo:	16940					
Prep Date:	2/24/2014	Analysis Date:	2/25/2014	SeqNo:	487668	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	8.0		10.00		80.0	66	131			

Sample ID	MB-11896	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	11896	RunNo:	16968					
Prep Date:	2/25/2014	Analysis Date:	2/26/2014	SeqNo:	488286	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.2		10.00		81.5	66	131			

Sample ID	LCS-11896	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	11896	RunNo:	16968					
Prep Date:	2/25/2014	Analysis Date:	2/26/2014	SeqNo:	488287	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.3		5.000		86.9	66	131			

Sample ID	MB-11903	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	11903	RunNo:	16968					
Prep Date:	2/26/2014	Analysis Date:	2/26/2014	SeqNo:	488291	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.0		10.00		79.6	66	131			

Sample ID	LCS-11903	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	11903	RunNo:	16968					
Prep Date:	2/26/2014	Analysis Date:	2/26/2014	SeqNo:	488292	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.0		5.000		80.8	66	131			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1402839

28-Feb-14

Client: Souder, Miller and Associates

Project: Lateral K-39

Sample ID	MB-11849	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	11849	RunNo:	16926					
Prep Date:	2/21/2014	Analysis Date:	2/24/2014	SeqNo:	487278	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	800		1000		80.5	74.5	129			

Sample ID	LCS-11849	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	11849	RunNo:	16926					
Prep Date:	2/21/2014	Analysis Date:	2/24/2014	SeqNo:	487279	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	106	71.7	134			
Surr: BFB	880		1000		87.8	74.5	129			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1402839

28-Feb-14

Client: Souder, Miller and Associates

Project: Lateral K-39

Sample ID	MB-11849	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	11849	RunNo:	16926					
Prep Date:	2/21/2014	Analysis Date:	2/24/2014	SeqNo:	487295	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.92		1.000		92.1	80	120			

Sample ID	LCS-11849	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	11849	RunNo:	16926					
Prep Date:	2/21/2014	Analysis Date:	2/24/2014	SeqNo:	487296	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	102	80	120			
Toluene	1.1	0.050	1.000	0	109	80	120			
Ethylbenzene	1.1	0.050	1.000	0	107	80	120			
Xylenes, Total	3.3	0.10	3.000	0	109	80	120			
Surr: 4-Bromofluorobenzene	0.95		1.000		95.5	80	120			

Sample ID	1402839-001AMS	SampType:	MS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	N. Wall @ 12' (SC-1)	Batch ID:	11849	RunNo:	16926					
Prep Date:	2/21/2014	Analysis Date:	2/24/2014	SeqNo:	487299	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.049	0.9823	0	95.2	67.4	135			
Toluene	1.1	0.049	0.9823	0.005285	107	72.6	135			
Ethylbenzene	1.1	0.049	0.9823	0	110	69.4	143			
Xylenes, Total	3.3	0.098	2.947	0	113	70.8	144			
Surr: 4-Bromofluorobenzene	0.95		0.9823		97.0	80	120			

Sample ID	1402839-001AMSD	SampType:	MSD	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	N. Wall @ 12' (SC-1)	Batch ID:	11849	RunNo:	16926					
Prep Date:	2/21/2014	Analysis Date:	2/24/2014	SeqNo:	487300	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.049	0.9852	0	107	67.4	135	12.1	20	
Toluene	1.2	0.049	0.9852	0.005285	120	72.6	135	12.1	20	
Ethylbenzene	1.2	0.049	0.9852	0	121	69.4	143	10.3	20	
Xylenes, Total	3.7	0.099	2.956	0	124	70.8	144	8.96	20	
Surr: 4-Bromofluorobenzene	0.98		0.9852		99.0	80	120	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Sample Log-In Check List

Client Name: SMA-FARM

Work Order Number: 1402839

RcptNo: 1

Received by/date: mg 02/21/14

Logged By: Michelle Garcia 2/21/2014 10:00:00 AM Michelle Garcia

Completed By: Michelle Garcia 2/21/2014 12:03:51 PM Michelle Garcia

Reviewed By: mg 02/21/14

Chain of Custody

1. Custody seals intact on sample bottles? Yes No Not Present
2. Is Chain of Custody complete? Yes No Not Present
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes No NA
5. Were all samples received at a temperature of >0° C to 6.0° C Yes No NA
6. Sample(s) in proper container(s)? Yes No
7. Sufficient sample volume for indicated test(s)? Yes No
8. Are samples (except VOA and ONG) properly preserved? Yes No
9. Was preservative added to bottles? Yes No NA
10. VOA vials have zero headspace? Yes No No VOA Vials
11. Were any sample containers received broken? Yes No
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes No
13. Are matrices correctly identified on Chain of Custody? Yes No
14. Is it clear what analyses were requested? Yes No
15. Were all holding times able to be met? (If no, notify customer for authorization.) Yes No

of preserved bottles checked for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified: _____ Date: _____
By Whom: _____ Via: eMail Phone Fax In Person
Regarding: _____
Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.2	Good	Yes			

Chain-of-Custody Record

Client: Souder, Miller & Associates

Mailing Address: 401 W. Broadway
Farmington, NM 87401

Phone #: 505 325 4535

Email or Fax #: Steve, Maskal@soudermiller.com

QA/QC Package:
Standard Level 4 (Full Validation)

Accreditation:
NELAP Other _____

EDD (Type) _____

Turn-Around Time:
 Standard Rush

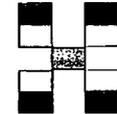
Project Name: Lateral K-39

Project #: 5122855 BG7

Project Manager: Steve Maskal

Sampler: Steve Maskal
On Ice: Yes No

Sample Temperature: 1.2



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TMBs (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y or N)
2/14	1130	Soil	N. wall @ 12' (SC-12)	4oz X 1	cooled	1402839-001	↓	↓	↓									
	1130		W. wall @ 12' (SC-22)			002												
	1155		S. wall @ 12' (SC-23)			003												
	1201		W. Stockpile (SC-27)			004												
	1227		E. wall @ 12' (SC-15)			005												
	1322		Bas. Bedrock @ 12' (SC-25)			006												

Date: 2/14 Time: 1630 Relinquished by: [Signature]

Received by: [Signature] Date: 2/20/14 Time: 1653

Remarks: copy report to alicia.patterson@soudermiller.com

Date: 2/14 Time: 1721 Relinquished by: [Signature]

Received by: [Signature] Date: 2/21/14 Time: 1000

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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 August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company: Enterprise Field Services LLC	Contact: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name San Juan 30-6 #18A Drip Tank	Facility Type: Condensate/Drip Tank

Surface Owner: BLM	Mineral Owner: BLM	API No.
--------------------	--------------------	---------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	18	30N	6W	1809	South	918	East	Rio Arriba

Latitude 36.81035 Longitude -107.49843

NATURE OF RELEASE

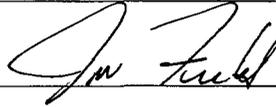
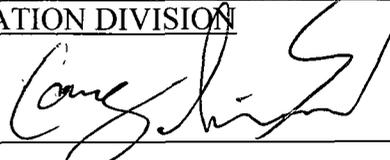
Type of Release: Condensate and Produced Water	Volume of Release: Unknown Gas Release; 3-5 bbls of Condensate/Water	Volume Recovered: Unknown
Source of Release: Froze/Cracked offloading valve	Date and Hour of Occurrence: 1/20/2014 @ 12:30p.m.	Date and Hour of Discovery: 1/20/2014 @ 12:30p.m.
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom? Thomas Long	Date and Hour:	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* A condensate/produced water release associated with a frozen/cracked offloading valve on a 215 BBL tank. The release remained inside the secondary containment. The tank was pumped down to remove any residual fluids and the valve was replaced.

Describe Area Affected and Cleanup Action Taken.* Remediation activities completed on January 24, 2014. The final was excavation was approximately 19 feet long by 10 feet wide by approximately four (4) feet deep. Approximately 32 cubic yards of impacted soils were excavated and transported to a NMOCD approved landfarm. A third party environmental contactor corrective action report is included with this "final" c-141.

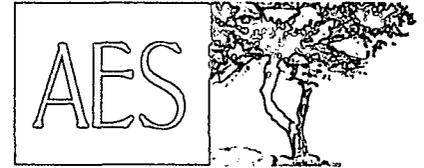
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger 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: 	OIL CONSERVATION DIVISION	
Printed Name: Jon Fields	Approved by Environmental Specialist: 	
Title: Director, Environmental	Approval Date: <u>5/29/14</u>	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <u>5-13-2014</u> Phone: (713)381-6684		

* Attach Additional Sheets If Necessary

#NCS 141 49 49 793

22



Animas Environmental Services, LLC

www.animasenvironmental.com

624 E. Comanche
Farmington, NM 87401
505-564-2281

Durango, Colorado
970-403-3084

February 19, 2014

Thomas Long
Enterprise Field Services, LLC
614 Reilly Avenue
Farmington, New Mexico 87401

Via electronic mail with delivery confirmation receipt to:
tjlong@eprod.com

**RE: Release Assessment Report
Enterprise Trunk A-LP San Juan 30-6 #18A Drip Tank Release
SE¼ SW¼, Section 31, T30N, R8W
Rio Arriba County, New Mexico**

OIL CONS. DIV DIST. 3
MAY 19 2014

Dear Mr. Long:

On January 24, 2013, Animas Environmental Services, LLC (AES) completed an assessment associated with a release of an estimated volume of less than five barrels (bbls) pipeline liquids from the Enterprise Field Services, LLC (Enterprise) Trunk A-LP San Juan 30-6 #18A drip tank. The release was discovered on January 20, 2014, and resulted from a failed manway gasket.

1.0 Site Information

1.1 Location

Location – NE¼ SE¼, Section 18, T30N, R6W, Rio Arriba County, New Mexico
Well Head Latitude/Longitude – N36.81035 and W107.49843, respectively
Release Location Latitude/Longitude – N36.81037 and W107.49888, respectively
Surface Owner – Bureau of Land Management
Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Map, May 2013

1.2 NMOCD Ranking

In accordance with New Mexico Oil Conservation Division (NMOCD) release protocols, action levels were established per NMOCD *Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993) prior to the assessment. The release was given a ranking score of 10 based on the following factors:

- **Depth to Groundwater:** A cathodic well report dated July 1980 reported the depth to groundwater at 100 feet below ground surface (bgs). AES personnel

further assessed the depth to water determination using topographical interpretation, Global Positioning System (GPS) elevation readings, and visual reconnaissance. AES personnel concluded that depth to groundwater at the site was greater than 100 feet bgs. (0 points)

- **Wellhead Protection Area:** The release location is not within a wellhead protection area. (0 points)
- **Distance to Surface Water Body:** The release is located approximately 360 feet to the southwest of an unnamed ephemeral wash draining to Frances Creek and eventually to Navajo Lake. (10 points)

The ranking score of 10 dictates that concentrations for impacted soils left in place must be below the NMOCD action levels of 10 mg/kg benzene, 50 mg/kg total benzene, toluene, ethylbenzene, and xylenes (BTEX), and 1,000 mg/kg total petroleum hydrocarbons (TPH) as gasoline range organics (GRO) and diesel range organics (DRO).

1.3 Assessment and Mitigation

On January 14, 2014, Enterprise contractors completed an excavation of petroleum hydrocarbon impacted soils in the release area around the condensate tank at the location. AES provided field screening for excavation guidance and prior to backfilling the excavation, collected a total of three confirmation soil samples for field screening and laboratory analysis from the walls and base of the final excavation. The final excavation measured approximately 19 feet by 10 feet by 4 feet deep and terminated on shale with sandstone lenses. The excavation was backfilled with clean, imported material, and the impacted soil was transported to the Envirotech Landfarm for proper disposal. Soil sample locations and final excavation extents are included on Figure 3. The Envirotech Bills of Lading and a photograph log are included in the Appendix.

2.0 Soil Sampling

A total of three composite soil samples (SC-1 through SC-3) were collected from the walls and the base of the final excavation during the assessment. Each composite sample was field screened for volatile organic compounds (VOCs) and submitted for laboratory analysis.

2.1 Field Screening

2.1.1 Volatile Organic Compounds

Field screening for VOC vapors was conducted with a photo-ionization detector (PID) organic vapor meter (OVM). Before beginning field screening, the PID-OVM was first calibrated with 100 parts per million (ppm) isobutylene gas.

2.2 Laboratory Analyses

Samples collected for laboratory analysis were placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto a sample chain of custody record. Samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall), in Albuquerque, New Mexico. Soil samples were laboratory analyzed for:

- BTEX per U.S. Environmental Protection Agency (USEPA) Method 8021B; and
- TPH (GRO/DRO) per USEPA Method 8015D.

2.3 Field Screening and Laboratory Analytical Results

Soil field screening results showed that VOC concentrations via OVM ranged from 67.8 ppm in SC-1 to 2,107 ppm in SC-2. Results are included in Table 1 and on Figure 3.

Table 1. Soil Field Screening VOC Results
Trunk A-LP San Juan 30-6 #18A Drip Tank Release Assessment, January 2014

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Sample Depth (ft bgs)</i>	<i>VOCs via OVM (ppm)</i>
<i>NMOCD Action Level*</i>			100
SC-1	1/24/14	1 to 4	67.8
SC-2	1/24/14	1 to 4	2,107
SC-3	1/24/14	4	636

*Action level determined by the NMOCD ranking score per *NMOCD Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993)

Laboratory analytical results showed that benzene concentrations were below laboratory detection limits in SC-1 and SC-2, and at 0.56 mg/kg in SC-3. Total BTEX concentrations ranged from below laboratory detection limits in SC-1 up to 79.9 mg/kg in SC-3. TPH concentrations ranged from 8.14 mg/kg in SC-1 up to 701 mg/kg in SC-3. Laboratory analytical results are included in Table 2 and on Figure 3. The laboratory analytical report is attached.

Table 2. Laboratory Analytical Results – Benzene, Total BTEX, and TPH
Trunk A-LP San Juan 30-6 #18A Drip Tank Release Assessment, January 2014

Sample ID	Date Sampled	Sample Depth (ft bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH – GRO (mg/kg)	TPH – DRO (mg/kg)
NMOCD Action Level*			10	50	1,000	
SC-1	1/24/14	1 to 4	<0.05	<0.05	8.14	<29.9
SC-2	1/24/14	1 to 4	<0.05	0.94	21.5	<29.9
SC-3	1/24/14	4	0.56	79.7	455	246

*Action level determined by the NMOCD ranking score per *NMOCD Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993)

3.0 Conclusions and Recommendations

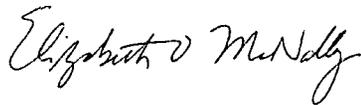
Action levels for releases determined by NMOCD ranking score per *NMOCD Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993), and the release was assigned a ranking score of 10. Field screening of SC-1 through SC-3 showed VOC concentrations above the NMOCD action level of 100 ppm in SC-2 and SC-3, with the highest VOC reading recorded in SC-2 (2,107 ppm). Laboratory analytical results reported benzene, total BTEX, and TPH below the applicable NMOCD action levels in SC-1 and SC-2, but above total BTEX action level in SC-3 with 79.7 mg/kg. However, verbal approval to backfill the excavation was given on January 27, 2014, by Brandon Powell of the NMOCD. No further work is recommended for the Trunk A-LP San Juan 30-6 #18A drip tank release.

If you have any questions about this report or site conditions, please do not hesitate to contact me at (505) 564-2281.

Sincerely,



Heather Woods, P.G.
Project Manager

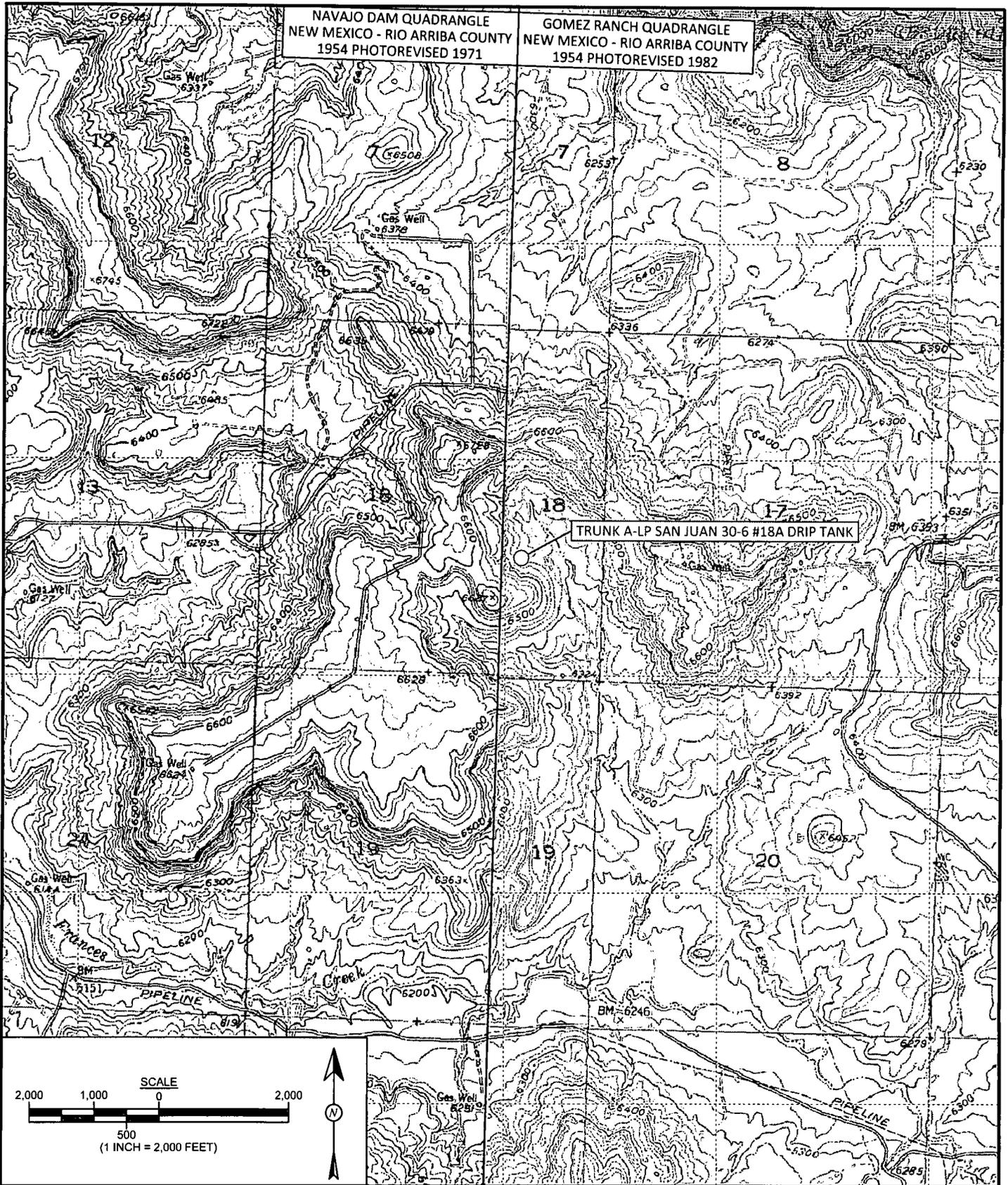


Elizabeth McNally, P.E.

Attachments:

- Figure 1. Topographic Site Location Map**
- Figure 2. Aerial Site Map**
- Figure 3. Excavation Sample Locations and Results, January 2014**
- Bills of Lading (Envirotech 45713 and 45731)**
- Photograph Log**
- Laboratory Analytical Reports (Envirotech P401077)**

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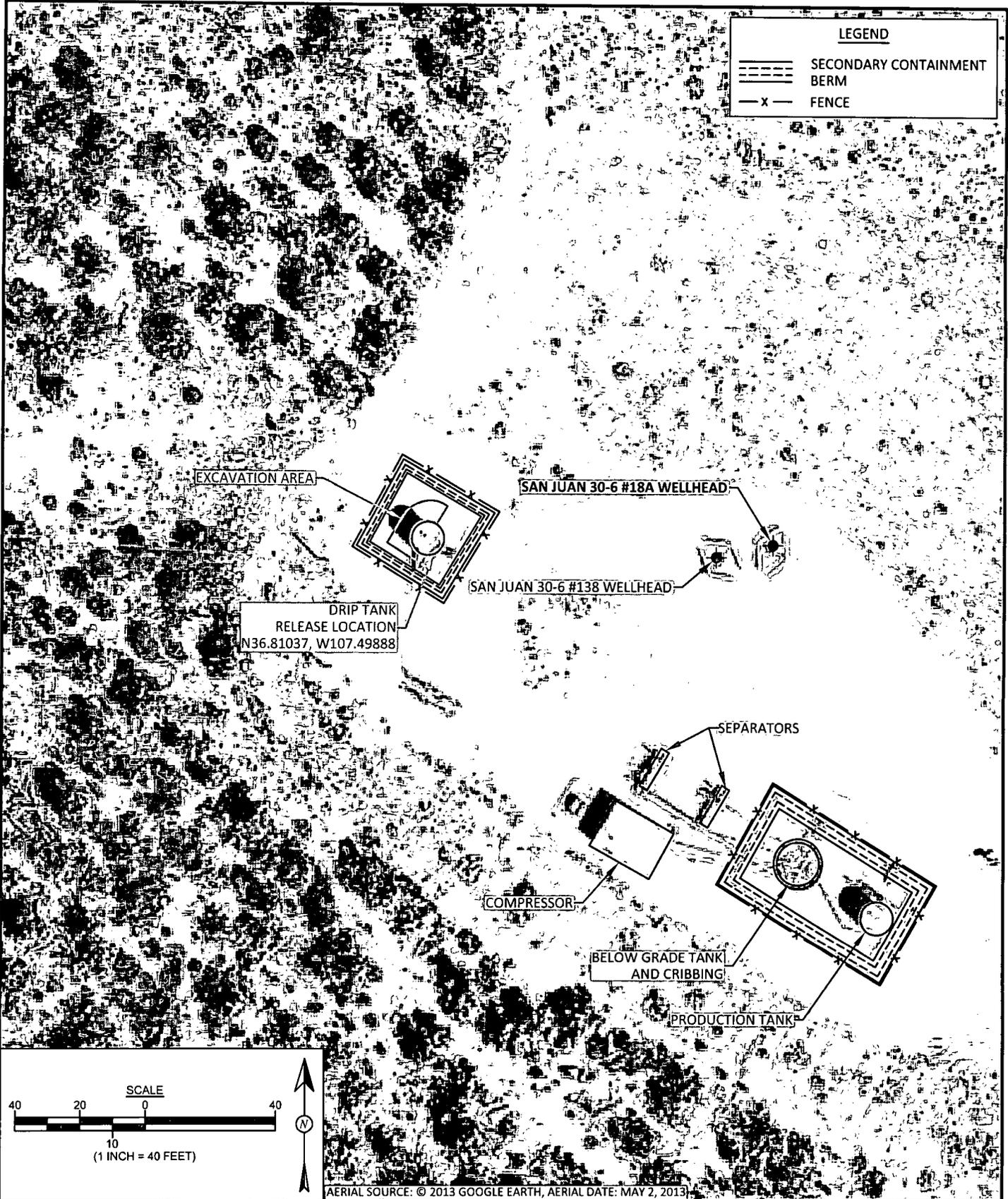


DRAWN BY: S. Glasses	DATE DRAWN: January 28, 2014
REVISIONS BY: C. Lameman	DATE REVISED: January 28, 2014
CHECKED BY: H. Woods	DATE CHECKED: January 28, 2014
APPROVED BY: E. McNally	DATE APPROVED: January 28, 2014

FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP
ENTERPRISE FIELD SERVICES LLC
TRUNK A-LP SAN JUAN 30-6 #18A DRIP TANK
NE¼ SE¼, SECTION 18, T30N, R6W
RIO ARRIBA COUNTY, NEW MEXICO
N36.81035, W107.49843

LEGEND	
	SECONDARY CONTAINMENT BERM
	FENCE



DRAWN BY: C. Lameman	DATE DRAWN: February 11, 2014
REVISIONS BY: C. Lameman	DATE REVISED: February 11, 2014
CHECKED BY: H. Woods	DATE CHECKED: February 11, 2014
APPROVED BY: E. McNally	DATE APPROVED: February 11, 2014

FIGURE 2

AERIAL SITE MAP
 ENTERPRISE FIELD SERVICES LLC
 TRUNK A-LP SAN JUAN 30-6 #18A DRIP TANK
 NE¼ SE¼, SECTION 18, T30N, R6W
 RIO ARRIBA COUNTY, NEW MEXICO
 N36.81035, W107.49843

FIGURE 3

EXCAVATION SAMPLE LOCATIONS AND RESULTS JANUARY 2014
 ENTERPRISE FIELD SERVICES LLC
 TRUNK A-LP SAN JUAN 30-6 #18A DRIP TANK
 NE¼ SE¼, SECTION 18, T30N, R6W
 RIO ARRIBA COUNTY, NEW MEXICO
 N36.81035, W107.49843



Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: February 11, 2014
REVISIONS BY: C. Lameman	DATE REVISED: February 11, 2014
CHECKED BY: H. Woods	DATE CHECKED: February 11, 2014
APPROVED BY: E. McNally	DATE APPROVED: February 11, 2014

LEGEND

- SAMPLE LOCATIONS
- ═══ SECONDARY CONTAINMENT BERM
- x - FENCE

Sample ID	Date	Depth (ft)	OVM-PID (ppm)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)
NMOC ACTION LEVEL			100	10	50	1,000	
SC-1	1/24/14	1 to 4	67.8	<0.05	<0.05	8.14	<29.9
SC-2	1/24/14	4	2,107	<0.05	0.94	21.5	<29.9
SC-3	1/24/14	1 to 4	636	0.56	79.7	455	246

ALL SAMPLES WERE COMPOSITE SAMPLES.
 ALL SAMPLES WERE ANALYZED PER EPA METHOD 8021 AND 8015.

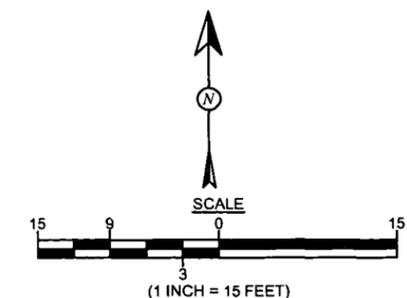
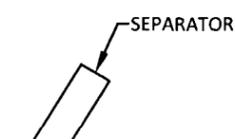
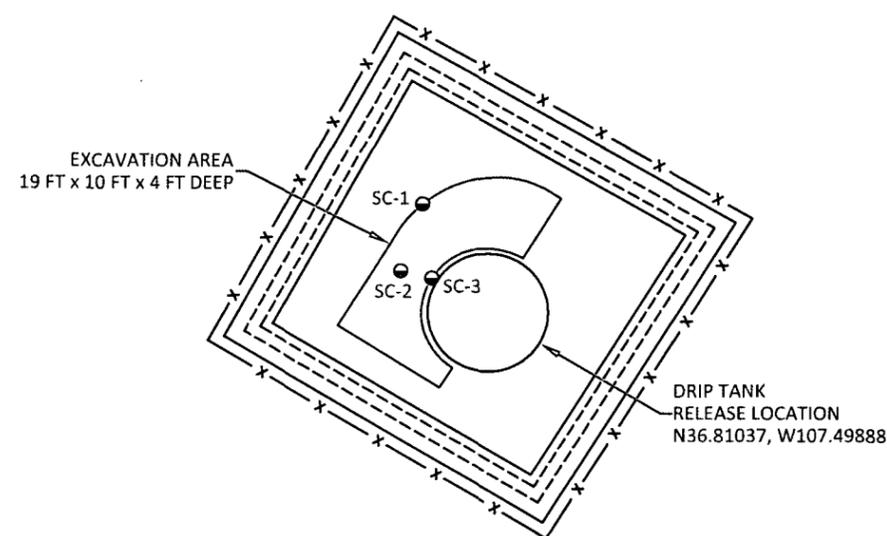
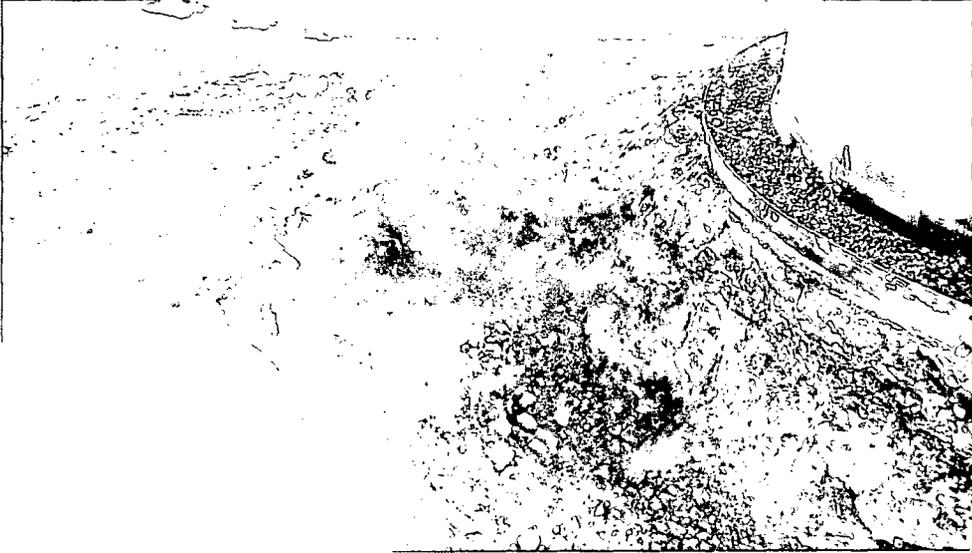


Photo #1	
Client: Enterprise Field Services, LLC	
Project: Trunk A-LP San Juan 30-6 #18A Drip Tank	
Taken by: Heather Woods	
Date: January 24, 2014	
AES Project No. 140121	Description: View of final excavation looking south.

Photo #2	
Client: Enterprise Field Services, LLC	
Project: Trunk A-LP San Juan 30-6 #18A Drip Tank	
Taken by: Heather Woods	
Date: January 24, 2014	
AES Project No. 140121	Description: View of final excavation looking north.



Analytical Report

Report Summary

Client: Animas Environmental Services

Chain Of Custody Number: 16570

Samples Received: 1/24/2014 2:38:00PM

Job Number: 99083-0001

Work Order: P401077

Project Name/Location: Enterprise SJ 30-6 #18A

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Tim Cain', is written over a horizontal line.

Date: 1/27/14

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.





Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: Enterprise SJ 30-6 #18A Project Number: 99083-0001 Project Manager: Heather Woods	Reported: 27-Jan-14 08:04
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Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SC-1	P401077-01A	Soil	01/24/14	01/24/14	Glass Jar, 4 oz.
SC-2	P401077-02A	Soil	01/24/14	01/24/14	Glass Jar, 4 oz.
SC-3	P401077-03A	Soil	01/24/14	01/24/14	Glass Jar, 4 oz.

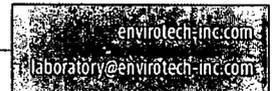
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Three Springs - 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (970) 259-0615 Fr (800) 362-1879





Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: Enterprise SJ 30-6 #18A Project Number: 99083-0001 Project Manager: Heather Woods	Reported: 27-Jan-14 08:04
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SC-1
P401077-01 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.05		mg/kg	1	1404027	01/24/14	01/24/14	EPA 8021B	
Toluene	ND	0.05		mg/kg	1	1404027	01/24/14	01/24/14	EPA 8021B	
Ethylbenzene	ND	0.05		mg/kg	1	1404027	01/24/14	01/24/14	EPA 8021B	
p,m-Xylene	ND	0.05		mg/kg	1	1404027	01/24/14	01/24/14	EPA 8021B	
o-Xylene	ND	0.05		mg/kg	1	1404027	01/24/14	01/24/14	EPA 8021B	
Total Xylenes	ND	0.05		mg/kg	1	1404027	01/24/14	01/24/14	EPA 8021B	
Total BTEX	ND	0.05		mg/kg	1	1404027	01/24/14	01/24/14	EPA 8021B	
<i>Surrogate: Bromochlorobenzene</i>		<i>111 %</i>		<i>80-120</i>		<i>1404027</i>	<i>01/24/14</i>	<i>01/24/14</i>	<i>EPA 8021B</i>	
<i>Surrogate: 1,3-Dichlorobenzene</i>		<i>106 %</i>		<i>80-120</i>		<i>1404027</i>	<i>01/24/14</i>	<i>01/24/14</i>	<i>EPA 8021B</i>	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	8.14	5.00		mg/kg	1	1404027	01/24/14	01/24/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.9		mg/kg	1	1404026	01/24/14	01/24/14	EPA 8015D	

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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: Enterprise SJ 30-6 #18A Project Number: 99083-0001 Project Manager: Heather Woods	Reported: 27-Jan-14 08:04
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SC-2
P401077-02 (Solid)

Analyte	Result	Reporting			Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units							
Volatile Organics by EPA 8021										
Benzene	ND	0.05	mg/kg	1	1404027	01/24/14	01/24/14	EPA 8021B		
Toluene	ND	0.05	mg/kg	1	1404027	01/24/14	01/24/14	EPA 8021B		
Ethylbenzene	ND	0.05	mg/kg	1	1404027	01/24/14	01/24/14	EPA 8021B		
p,m-Xylene	0.94	0.05	mg/kg	1	1404027	01/24/14	01/24/14	EPA 8021B		
o-Xylene	ND	0.05	mg/kg	1	1404027	01/24/14	01/24/14	EPA 8021B		
Total Xylenes	0.94	0.05	mg/kg	1	1404027	01/24/14	01/24/14	EPA 8021B		
Total BTEX	0.94	0.05	mg/kg	1	1404027	01/24/14	01/24/14	EPA 8021B		
<i>Surrogate: Bromochlorobenzene</i>		116 %		80-120	1404027	01/24/14	01/24/14	EPA 8021B		
<i>Surrogate: 1,3-Dichlorobenzene</i>		115 %		80-120	1404027	01/24/14	01/24/14	EPA 8021B		
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	21.5	4.99	mg/kg	1	1404027	01/24/14	01/24/14	EPA 8015D		
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1	1404026	01/24/14	01/24/14	EPA 8015D		

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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: Enterprise SJ 30-6 #18A Project Number: 99083-0001 Project Manager: Heather Woods	Reported: 27-Jan-14 08:04
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SC-3
P401077-03 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	0.56	0.05	mg/kg	1	1404027	01/24/14	01/24/14	EPA 8021B		
Toluene	13.5	0.05	mg/kg	1	1404027	01/24/14	01/24/14	EPA 8021B		
Ethylbenzene	3.66	0.05	mg/kg	1	1404027	01/24/14	01/24/14	EPA 8021B		
p,m-Xylene	53.3	0.05	mg/kg	1	1404027	01/24/14	01/24/14	EPA 8021B		
o-Xylene	8.73	0.05	mg/kg	1	1404027	01/24/14	01/24/14	EPA 8021B		
Total Xylenes	62.0	0.05	mg/kg	1	1404027	01/24/14	01/24/14	EPA 8021B		
Total BTEX	79.7	0.05	mg/kg	1	1404027	01/24/14	01/24/14	EPA 8021B		
Surrogate: 1,3-Dichlorobenzene		179 %		80-120	1404027	01/24/14	01/24/14	EPA 8021B		Surr1
Surrogate: Bromochlorobenzene		136 %		80-120	1404027	01/24/14	01/24/14	EPA 8021B		Surr1
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	455	5.00	mg/kg	1	1404027	01/24/14	01/24/14	EPA 8015D		
Diesel Range Organics (C10-C28)	246	29.9	mg/kg	1	1404026	01/24/14	01/24/14	EPA 8015D		

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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: Enterprise SJ 30-6 #18A Project Number: 99083-0001 Project Manager: Heather Woods	Reported: 27-Jan-14 08:04
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Volatile Organics by EPA 8021 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1404027 - Purge and Trap EPA 5030A

Blank (1404027-BLK1)		Prepared: 23-Jan-14 Analyzed: 24-Jan-14								
Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05	"							
Ethylbenzene	ND	0.05	"							
p,m-Xylene	ND	0.05	"							
o-Xylene	ND	0.05	"							
Total Xylenes	ND	0.05	"							
Total BTEX	ND	0.05	"							

<i>Surrogate: 1,3-Dichlorobenzene</i>	52.6		ug/L	50.0		105	80-120			
<i>Surrogate: Bromochlorobenzene</i>	54.5		"	50.0		109	80-120			

Duplicate (1404027-DUP1)		Source: P401066-01		Prepared: 23-Jan-14 Analyzed: 24-Jan-14						
Benzene	4.84	0.05	mg/kg		4.19			14.5	30	
Toluene	12.4	0.05	"		12.7			2.09	30	
Ethylbenzene	0.81	0.05	"		0.78			3.59	30	
p,m-Xylene	7.34	0.05	"		7.47			1.79	30	
o-Xylene	1.11	0.05	"		1.11			0.436	30	

<i>Surrogate: 1,3-Dichlorobenzene</i>	202		ug/L	50.0		404	80-120			S-02
<i>Surrogate: Bromochlorobenzene</i>	68.3		"	50.0		137	80-120			S-02

Matrix Spike (1404027-MS1)		Source: P401066-01		Prepared: 23-Jan-14 Analyzed: 24-Jan-14						
Benzene	7.68	0.05	mg/kg	2.50	4.19	140	39-150			
Toluene	16.3	0.05	"	2.50	12.7	144	46-148			
Ethylbenzene	3.49	0.05	"	2.50	0.78	108	32-160			
p,m-Xylene	13.0	0.05	"	5.00	7.47	111	46-148			
o-Xylene	3.91	0.05	"	2.50	1.11	112	46-148			

<i>Surrogate: 1,3-Dichlorobenzene</i>	221		ug/L	50.0		443	80-120			S-02
<i>Surrogate: Bromochlorobenzene</i>	72.1		"	50.0		144	80-120			S-02

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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: Enterprise SJ 30-6 #18A Project Number: 99083-0001 Project Manager: Heather Woods	Reported: 27-Jan-14 08:04
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Nonhalogenated Organics by 8015 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1404026 - DRO Extraction EPA 3550C										
Blank (1404026-BLK1)					Prepared: 23-Jan-14 Analyzed: 24-Jan-14					
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg							
Duplicate (1404026-DUP1)					Source: P401066-01 Prepared: 23-Jan-14 Analyzed: 24-Jan-14					
Diesel Range Organics (C10-C28)	340	29.9	mg/kg		372			9.05	30	
Matrix Spike (1404026-MS1)					Source: P401066-01 Prepared: 23-Jan-14 Analyzed: 24-Jan-14					
Diesel Range Organics (C10-C28)	605	31.6	mg/kg	263	372	88.5	75-125			

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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: Enterprise SJ 30-6 #18A Project Number: 99083-0001 Project Manager: Heather Woods	Reported: 27-Jan-14 08:04
---	---	------------------------------

Nonhalogenated Organics by 8015 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1404027 - Purge and Trap EPA 5030A										
Blank (1404027-BLK1) Prepared: 23-Jan-14 Analyzed: 24-Jan-14										
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg							
Duplicate (1404027-DUP1) Source: P401066-01 Prepared: 23-Jan-14 Analyzed: 24-Jan-14										
Gasoline Range Organics (C6-C10)	133	4.99	mg/kg		133			0.0246	30	
Matrix Spike (1404027-MS1) Source: P401066-01 Prepared: 23-Jan-14 Analyzed: 24-Jan-14										
Gasoline Range Organics (C6-C10)	159	5.00	mg/kg	22.5	133	118	75-125			

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5796 US Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (970) 259-0615 Fr (800) 362-1879



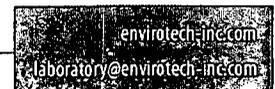


Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: Enterprise SJ 30-6 #18A Project Number: 99083-0001 Project Manager: Heather Woods	Reported: 27-Jan-14 08:04
---	---	------------------------------

Notes and Definitions

- Surr1 Surrogate recovery was above acceptable limits.
- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

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RUSH

CHAIN OF CUSTODY RECORD

16570

Client: Animas Environmental Services	Project Name / Location: Enterprise SJ 30-6 #18A	ANALYSIS / PARAMETERS													
Email results to: hwoods@animasenvironmental.com and tjang@eprod.com	Sampler Name: H. Woods	TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	PCRA 8 Metals	Cation / Anion	FCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
Client Phone No.: 505-564-2281	Client No.: 99083-0001														

Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	PCRA 8 Metals	Cation / Anion	FCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
					HNO ₃	HCl	cold														
SC-1	1/24/14	1225	P401077-01	1-4 oz			X	X	X											X	X
SC-2	1/24/14	1227	P401077-02	1-4 oz			X	X	X											X	X
SC-3	1/24/14	1229	P401077-03	1-4 oz			X	X	X											X	X

Relinquished by: (Signature) <i>Heather M. Woods</i>	Date 1/24/14	Time 1430	Received by: (Signature) <i>Miriam Joe</i>	Date 1-24-14	Time 14:38
Relinquished by: (Signature)			Received by: (Signature)		
Sample Matrix Soil <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>					

Sample(s) dropped off after hours to secure drop off area.



10.2°C
9.6°C

12.4°C

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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 August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company: Enterprise Field Services LLC	Contact: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: Jicarilla 35B Gas Com #1	Facility Type: Well Site

Surface Owner: Jicarilla Apache Tribe	Mineral Owner: Jicarilla Apache Tribe	API No.
---------------------------------------	---------------------------------------	---------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North South Line	Feet from the	East West Line	County
H	11	24N	5W	1826		1120		Rio Arriba

Latitude 36.32840 Longitude -107.32595

NATURE OF RELEASE

Type of Release: Natural Gas and Natural gas liquids	Volume of Release: Unknown Gas Release; 3-5 BBLs liquid release	Volume Recovered: Unknown
Source of Release: Accidental discharge during a meter tube blow down	Date and Hour of Occurrence: 3/4/2014:00 1:35 p.m.	Date and Hour of Discovery: 3/4/2014:00 1:35 p.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? JAEPO – Hobson Sandoval, JAO&GA – Bryce Hammond, Jonathan Kelly - NMOCD	
By Whom? Thomas Long	Date and Hour 3/4/2014 @ 5:07 p.m. by phone and email	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.

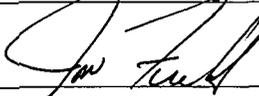
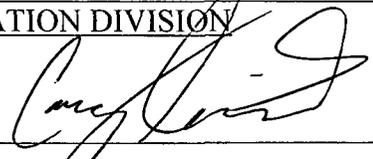
Describe Cause of Problem and Remedial Action Taken: During routine maintenance activities a release occurred while blowing down the meter tube. A surface area of approximately 32 feet long by 10 feet wide was affected. The meter tube taken out of service and LPTO (hook-out tag out) was applied.

OIL CON. DIV. DIST. 3

MAY 27 2014

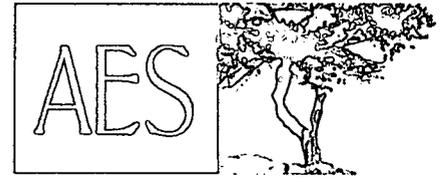
Describe Area Affected and Cleanup Action Taken: Remediation activities were completed on March 27, 2014. The final excavation measured approximately thirty (30) feet by nineteen (19) feet ranging from one (1) to one and one half (1.5) feet below ground surface. Approximately twenty (20) cubic yards of hydrocarbon impacted soil was excavated and transported to a NMOCD approved land farm facility. A third party environmental contractor corrective action report is included with this "final" c-141.

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: 	OIL CONSERVATION DIVISION	
Printed Name: Jon Fields	Approved by Environmental Specialist: 	
Title: Director, Environmental	Approval Date: <u>5/28/14</u>	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <u>5-22-2014</u> Phone: (713)381-6684		

* Attach Additional Sheets If Necessary

#NCS 141 4848517



Animas Environmental Services, LLC

www.animasenvironmental.com

624 E. Comanche
Farmington, NM 87401
505-564-2281

Durango, Colorado
970-403-3084

April 24, 2014

Thomas Long
Enterprise Field Services, LLC
614 Reilly Avenue
Farmington, New Mexico 87401

Via electronic mail with delivery confirmation receipt to:
tjlong@eprod.com

**RE: Initial Release Assessment and Final Excavation Report
Jicarilla 35B Gas Com #1
SE¼ NE¼, Section 11, T24N, R5W
Rio Arriba County, New Mexico**

OIL CONS. DIV DIST. 3
MAY 27 2014

Dear Mr. Long:

On March 11 and 27, 2014, Animas Environmental Services, LLC (AES) completed an initial release assessment and environmental clearance of the final excavation limits associated with a non-reportable release of less than 5 barrels (bbls) of pipeline liquids from the Enterprise Field Services, LLC (Enterprise) Jicarilla 35B Gas Com #1 meter run (Meter ID #75226). The release was occurred on March 4, 2014, from the meter run vent while a measurement technician was blowing down the meter run pipeline.

1.0 Site Information

1.1 Location

Location - SE¼ NE¼, Section 11, T24N, R5W, Rio Arriba County, New Mexico
Well Head Monument Latitude/Longitude - N36.32785 and W107.32590, respectively
Release Location Latitude/Longitude - N36.32840 and W107.32595, respectively
Surface Owner – Jicarilla Apache Nation
Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Map, March 2014

1.2 Risk Ranking

The Jicarilla 35B Gas Com #1 is located on Jicarilla Apache Nation lands, and soil remediation action levels are determined by the Jicarilla Apache Nation Oil and Gas Administration (JANOGA). JANOGA action levels for soils follow the New Mexico Oil Conservation Division (NMOCD) *Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993). Per JANOGA, all locations within Jicarilla Apache Nation lands receive a ranking score of 20:

- 100 ppm volatile organic compounds (VOCs); or 10 mg/kg benzene and 50 mg/kg total BTEX (benzene, toluene, ethylbenzene, and xylenes), and
- 100 mg/kg total petroleum hydrocarbons (TPH).

1.3 Assessment and Mitigation

On March 11, 2014, AES completed the initial release assessment field work. The assessment included collection and field screening of 16 soil samples from 8 soil borings in the area impacted by the release. Soil borings were terminated between 0.5 and 2.25 feet below ground surface (bgs). Based on field screening results, AES recommended excavation of the release area. Sample locations are shown on Figure 3.

On March 27, 2014, AES returned to the location to provide excavation guidance and collect confirmation soil samples of the excavation. The field screening activities included the collection of two confirmation soil samples from the base of the shallow excavation. The area of the final excavation measured approximately 30 feet by 19 feet by 1 to 1.5 feet in depth. The excavation was backfilled with clean, imported material, and the impacted soil was transported to the T-n-T Landfarm for proper disposal. Sample locations and final excavation extents are included on Figure 4. The T-n-T Landfarm Bill of Lading and a photograph log are included in the Appendix.

2.0 Soil Sampling

A total of 16 soil samples from eight soil borings (SB-1 through SB-8) were collected during initial assessment activities, and two composite soil samples (SC-1 and SC-2) were collected from the base of the final excavation. All soil samples were field screened for VOCs, and samples SC-1 and SC-2 were submitted for laboratory analysis.

2.1 Field Screening

2.1.1 Volatile Organic Compounds

Field screening for VOC vapors was conducted with a photo-ionization detector (PID) organic vapor meter (OVM). Before beginning field screening, the PID-OVM was first calibrated with 100 parts per million (ppm) isobutylene gas.

2.2 Laboratory Analyses

Samples collected for laboratory analysis were placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto a sample chain of custody record. Samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall), in Albuquerque, New Mexico. Soil samples were laboratory analyzed for:

- BTEX per U.S. Environmental Protection Agency (USEPA) Method 8021B; and
- TPH for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015D.

2.3 Field Screening and Laboratory Analytical Results

On March 11, 2014, initial assessment field screening results for VOCs via OVM showed concentrations ranging from 0.3 ppm in SB-6 at 0.25 feet up to 57.9 ppm in SB-2 at 0.5 feet. On March 27, 2014, final excavation field screening results for VOCs via OVM showed concentrations of 4.2 ppm in SC-1 and 1.5 ppm in SC-2. Results are included in Table 1 and on Figures 3 and 4.

Table 1. Soil Field Screening VOC Results
 Jicarilla 35B Gas Com #1 Initial Release Assessment and Final Excavation
 March 2014

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Sample Depth (ft bgs)</i>	<i>VOCs via OVM (ppm)</i>
JANOGA Action Level*			100
SB-1	3/11/14	0.75	3.7
		1.5	8.7
		2.25	18.4
SB-2	3/11/14	0.5	57.9
		0.75	4.3
SB-3	3/11/14	0.5	0.9
SB-4	3/11/14	0.5	1.5
SB-5	3/11/14	0.25	1.6
		1.25	0.8
SB-6	3/11/14	0.25	0.3
		1.25	0.6
SB-7	3/11/14	0.25	1.1
		1.25	0.4
SB-8	3/11/14	0.5	12.8
		1.0	1.6
		1.25	3.2
SC-1	3/27/14	1.0 to 1.5	4.2

Sample ID	Date Sampled	Sample Depth (ft bgs)	VOCs via OVM (ppm)
JANOGA Action Level*			100
SC-2	3/27/14	1.0 to 1.5	1.5

*Action level determined by JANOGA (Ref. NMOCD ranking score of 20 per NMOCD Guidelines for Remediation of Leaks, Spills, and Releases (August 1993)).

Laboratory analytical results showed that benzene and total BTEX concentrations were below laboratory detection limits for both samples. TPH (GRO) concentrations were also below laboratory detection limits, but TPH (DRO) was reported at 13 mg/kg in SC-1 and 16 mg/kg in SC-2. Laboratory analytical results are included in Table 2 and on Figure 4. The laboratory analytical report is attached.

Table 2. Laboratory Analytical Results – Benzene, Total BTEX, and TPH
 Jicarilla 35B Gas Com #1 Initial Release Assessment and Final Excavation, March 2014

Sample ID	Date Sampled	Sample Depth (ft bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH – GRO (mg/kg)	TPH – DRO (mg/kg)
JANOGA Action Level*			10	50	100	
SC-1	3/27/14	1.0 to 1.5	<0.047	<0.234	<4.7	13
SC-2	3/27/14	1.0 to 1.5	<0.048	<0.239	<4.8	16

*Action level determined by JANOGA (Ref. NMOCD ranking score of 20 per NMOCD Guidelines for Remediation of Leaks, Spills, and Releases (August 1993)).

3.0 Conclusions and Recommendations

On March 11, 2014, AES conducted an initial assessment of petroleum contaminated soils associated with a release of pipeline liquids from the meter run vent at the Jicarilla 35B Gas Com #1. Action levels for releases are determined by JANOGA, which refers to the NMOCD Guidelines for Remediation of Leaks, Spills, and Releases (August 1993) for a site ranking of 20. Initial assessment field screening results were below the NMOCD action level of 100 ppm VOCs, with the highest VOC concentration reported in SB-2 at 0.5 feet with 57.9 ppm.

On March 27, 2014, final clearance of the excavation area was completed. Field screening results of the excavation extents showed that VOC concentrations were below the JANOGA action level for the final excavation. Laboratory analytical results reported benzene, total BTEX, and TPH (GRO/DRO) below applicable JANOGA action levels in SC-1 and SC-2.

Based on field screening and laboratory results of the final excavation extents, benzene, total BTEX, and TPH (GRO/DRO) concentrations are below the applicable JANOGA action levels. No further work is recommended for the Jicarilla 35B Gas Com #1 Release.

If you have any questions about this report or site conditions, please do not hesitate to contact Heather Woods at (505) 564-2281.

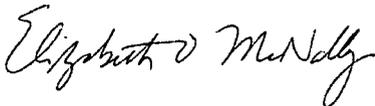
Sincerely,



David J. Reese
Environmental Scientist



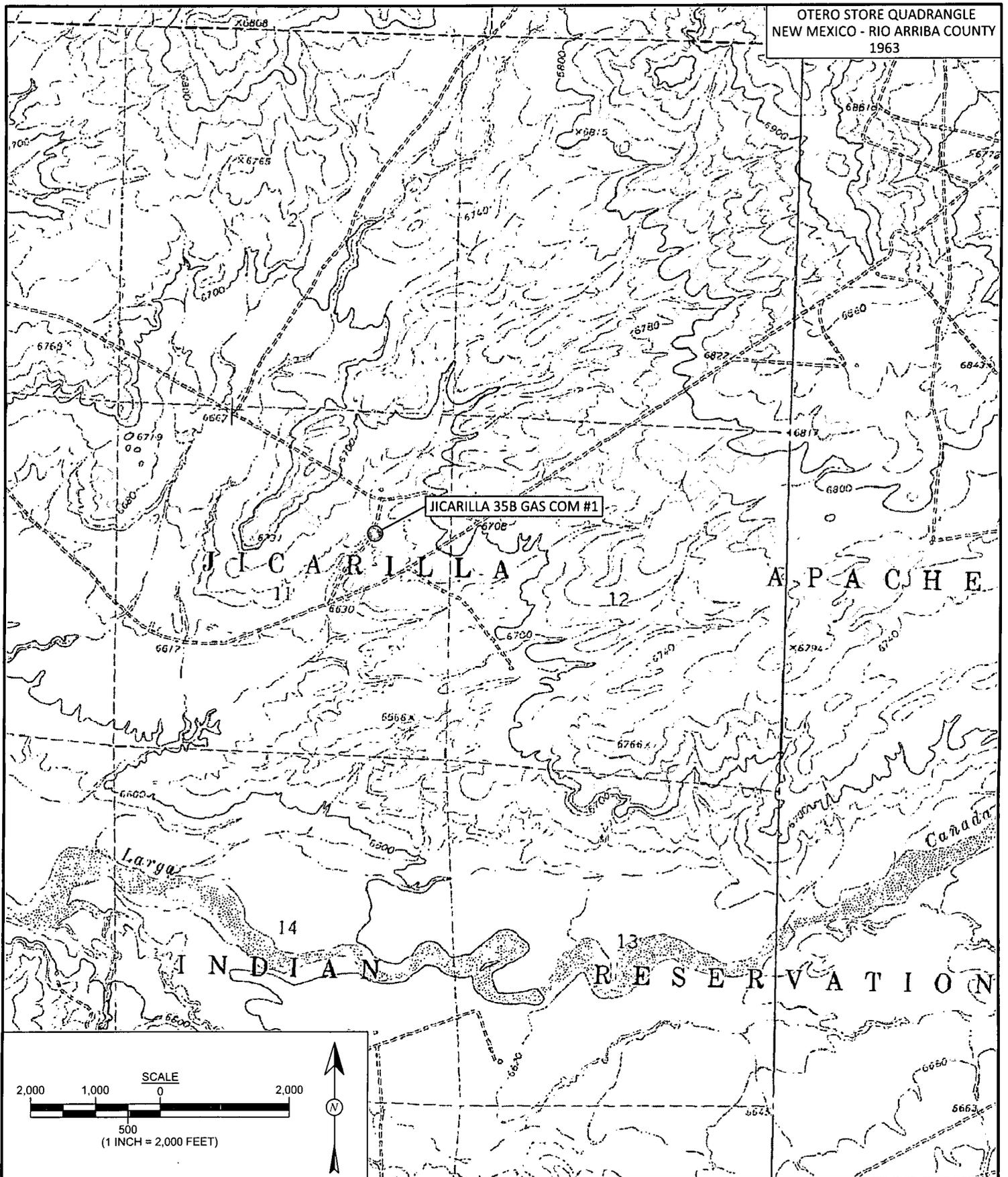
Heather M. Woods, P.G.
Project Manager



Elizabeth McNally, P.E.

Attachments:

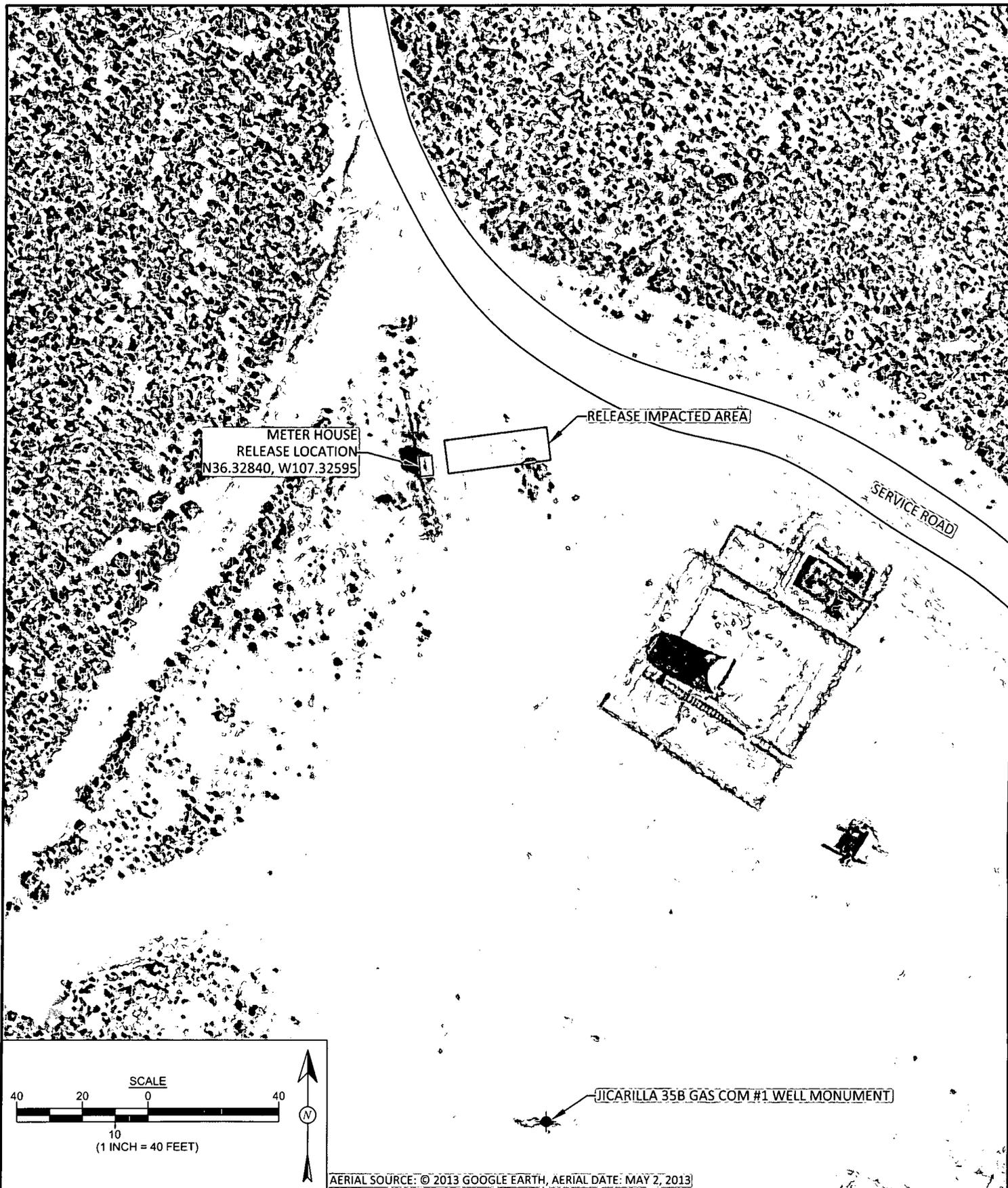
- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map, March 2014
- Figure 3. Initial Assessment Sample Locations and Results, March 2014
- Figure 4. Final Excavation Sample Locations and Results, March 2014
- Bill of Lading (T-n-T C-138)
- Photograph Log
- Laboratory Analytical Report (Hall 1403C44)



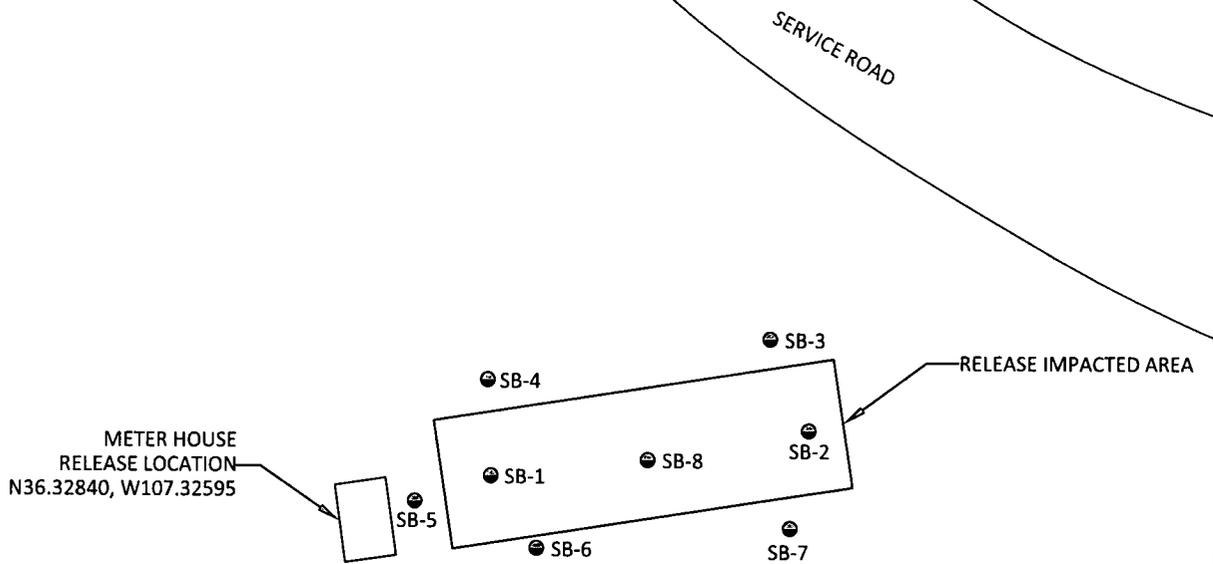
DRAWN BY: S. Glasses	DATE DRAWN: April 16, 2014
REVISIONS BY: C. Lameman	DATE REVISED: April 16, 2014
CHECKED BY: H. Woods	DATE CHECKED: April 16, 2014
APPROVED BY: E. McNally	DATE APPROVED: April 16, 2014

FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP
 ENTERPRISE FIELD SERVICES LLC
 JICARILLA 35B GAS COM #1
 SE¼ NE¼, SECTION 11, T24N, R5W
 RIO ARriba COUNTY, NEW MEXICO
 N36.32785, W107.32590



 Animas Environmental Services, LLC	DRAWN BY: S. Glasses	DATE DRAWN: April 16, 2014	FIGURE 2 AERIAL SITE MAP MARCH 2014 ENTERPRISE FIELD SERVICES LLC JICARILLA 35B GAS COM #1 SE¼ NE¼, SECTION 11, T24N, R5W RIO ARRIBA COUNTY, NEW MEXICO N36.32785, W107.32590
	REVISIONS BY: C. Lameman	DATE REVISED: April 16, 2014	
	CHECKED BY: H. Woods	DATE CHECKED: April 16, 2014	
	APPROVED BY: E. McNally	DATE APPROVED: April 16, 2014	



Field Screening Results			
Sample ID	Date	Depth (ft)	OVM-PID (ppm)
JANOGA ACTION LEVEL			100
SB-1	3/11/14	0.75	3.7
		1.5	8.7
		2.25	18.4
SB-2	3/11/14	0.5	57.9
		0.75	4.3
SB-3	3/11/14	0.5	0.9
SB-4	3/11/14	0.5	1.5
SB-5	3/11/14	0.25	1.6
		1.25	0.8
SB-6	3/11/14	0.25	0.3
		1.25	0.6
SB-7	3/11/14	0.25	1.1
		1.25	0.4
SB-8	3/11/14	0.5	12.8
		1.0	1.6
		1.25	3.2

AES



Animas Environmental Services, LLC

DRAWN BY:
S. Glasses

DATE DRAWN:
April 16, 2014

REVISIONS BY:
C. Lameman

DATE REVISED:
April 16, 2014

CHECKED BY:
H. Woods

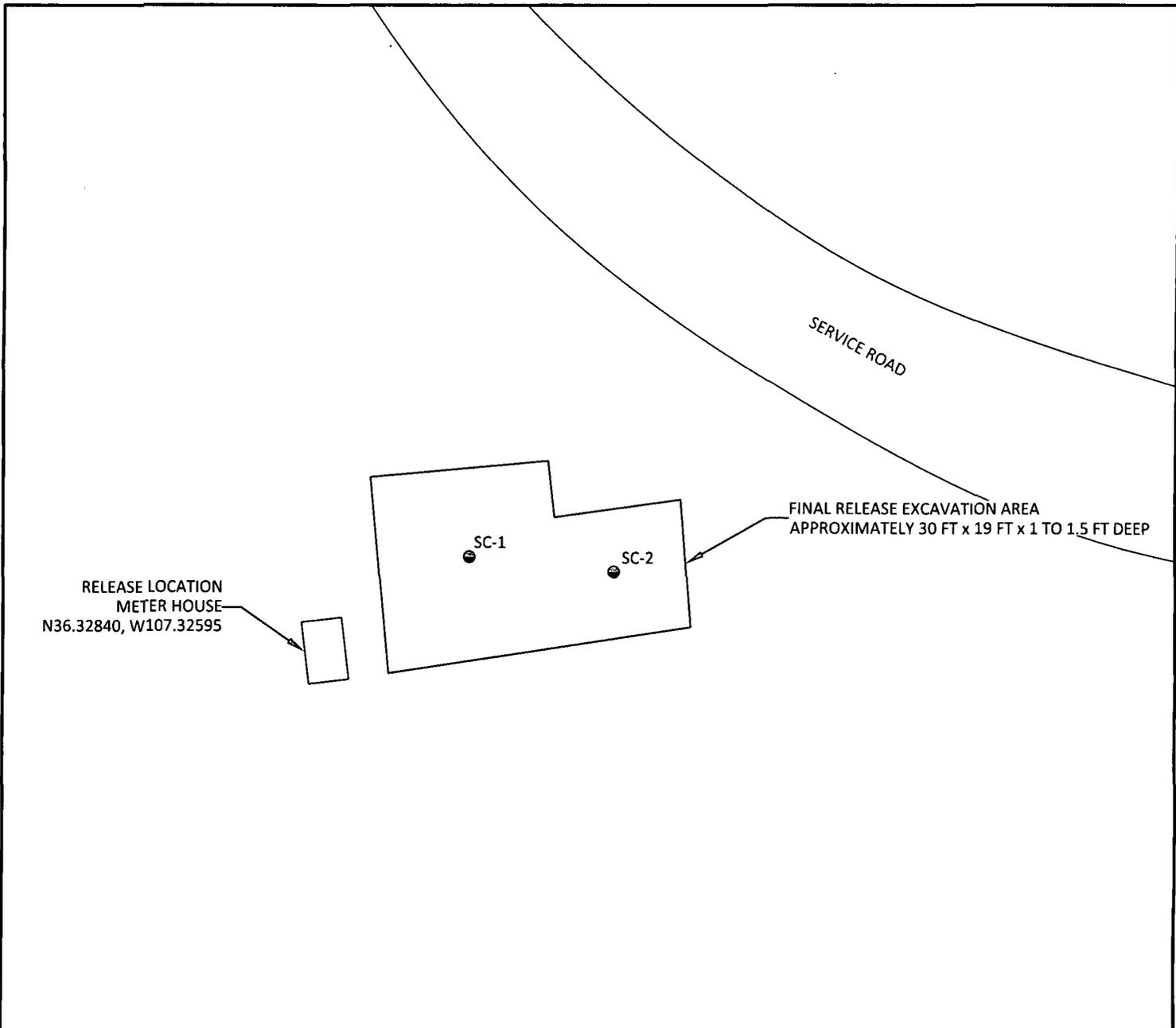
DATE CHECKED:
April 16, 2014

APPROVED BY:
E. McNally

DATE APPROVED:
April 16, 2014

FIGURE 3

INITIAL ASSESSMENT SAMPLE LOCATIONS AND RESULTS MARCH 2014
 ENTERPRISE FIELD SERVICES LLC
 JICARILLA 35B GAS COM #1
 SE¼ NE¼, SECTION 11, T24N, R5W
 RIO ARRIBA COUNTY, NEW MEXICO
 N36.32785, W107.32590



Field Screening and Laboratory Analytical Results

Sample ID	Date	OVM-PID (ppm)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)
JANOGA ACTION LEVEL		100	10	50	100	
SC-1	3/27/14	4.2	<0.047	<0.234	<4.7	13
SC-2	3/27/14	1.5	<0.048	<0.239	<4.8	16

SAMPLES SC-1 AND SC-2 WERE ANALYZED PER EPA METHOD 8021B AND 8015D.



DRAWN BY: S. Glasses	DATE DRAWN: April 16, 2014
REVISIONS BY: C. Lameman	DATE REVISED: April 16, 2014
CHECKED BY: H. Woods	DATE CHECKED: April 16, 2014
APPROVED BY: E. McNally	DATE APPROVED: April 16, 2014

FIGURE 4

FINAL EXCAVATION SAMPLE LOCATIONS AND RESULTS MARCH 2014

ENTERPRISE FIELD SERVICES LLC
JICARILLA 35B GAS COM #1
SE¼ NE¼, SECTION 11, T24N, R5W
RIO ARRIBA COUNTY, NEW MEXICO
N36.32785, W107.32590

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-138
Revised 08/01/11

*Surface Waste Management Facility Operator
and Generator shall maintain and make this
documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:

Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401

Paykey Code: GG11580

2. Originating Site:

Jicarilla 35B Gas Com #1 Well Site

3. Location of Material (Street Address, City, State or ULSTR):

Unit H, Section 11, T 25N, R 05W, Rio Arriba County, NM; 36.3283, -107.3256

4. Source and Description of Waste:

Source: Natural Gas Liquids (oil and condensate) from a meter run

Description: Exempt petroleum affected soil from clean-up efforts at well site

Estimated Volume 10 yd³ bbls Known Volume (to be entered by the operator at the end of the haul) _____ yd³ / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, *Thomas Long* Thomas Long, representative or authorized agent for Enterprise Field Services, LLC do hereby

Generator Signature

certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. Operator Use Only: Waste Acceptance Frequency Monthly Weekly Per Load

RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

MSDS Information RCRA Hazardous Waste Analysis Process Knowledge Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, *Thomas Long* 3-25-14, representative for Enterprise Field Services, LLC authorize T-N-T to complete

Generator Signature

the required testing/sign the Generator Waste Testing Certification.

I, _____, representative for _____ do hereby certify that

Representative/Agent Signature

representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

6. Transporter: IMI or an approved company on the NMOCD approved haulers list.

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: TNT Evap Pond/Landfarm, NM01-0008

Address of Facility: 70 CR 405, Lindrith NM

Method of Treatment and/or Disposal:

Evaporation Injection Treating Plant Landfarm Landfill Other

Waste Acceptance Status:

APPROVED

DENIED (Must Be Maintained As Permanent Record)

PRINT NAME: _____

TITLE: _____ DATE: _____

SIGNATURE: _____

TELEPHONE NO. 505-320-2737

Surface Waste Management Facility Authorized Agent

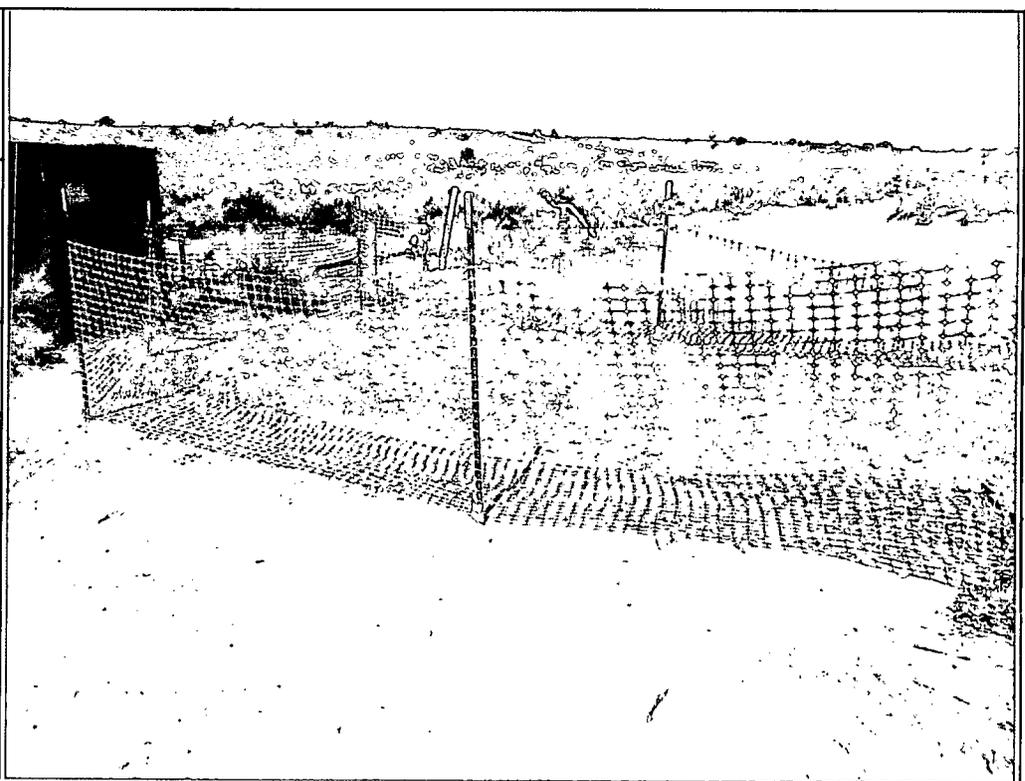
Photo #1	
Client: Enterprise Field Services, LLC	
Project: Jicarilla 35B Gas Com #1	
Taken by: Heather Woods	
Date: March 11, 2014	
AES Project No. 140304	Description: View of impacted area prior to excavation looking north.

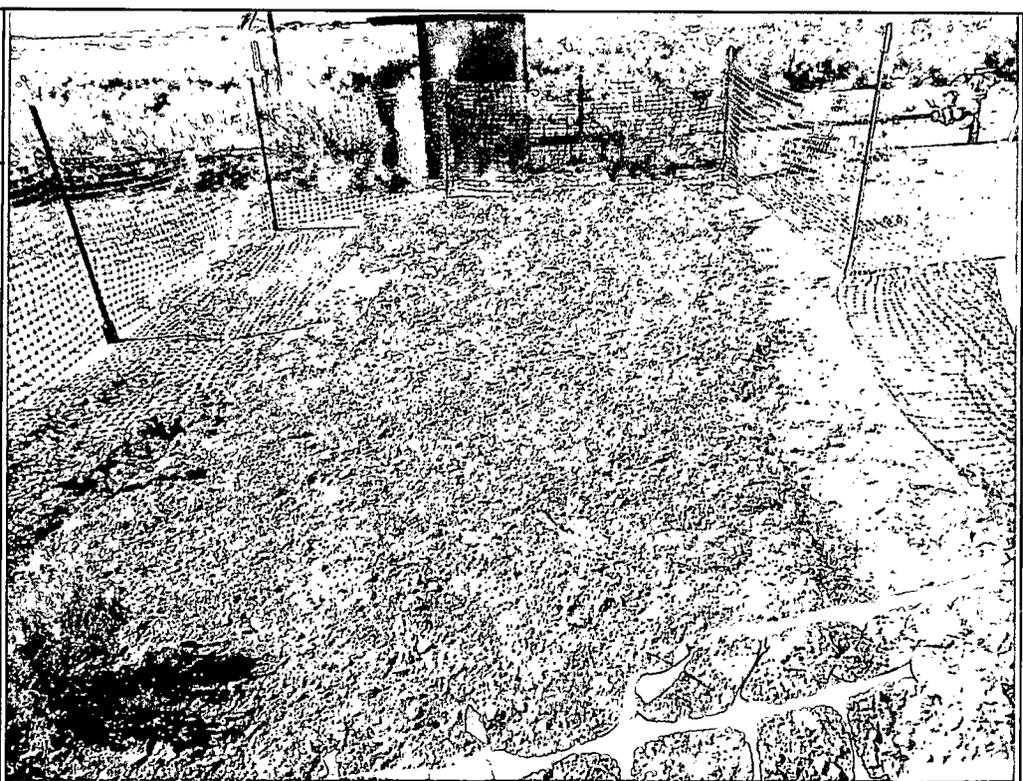
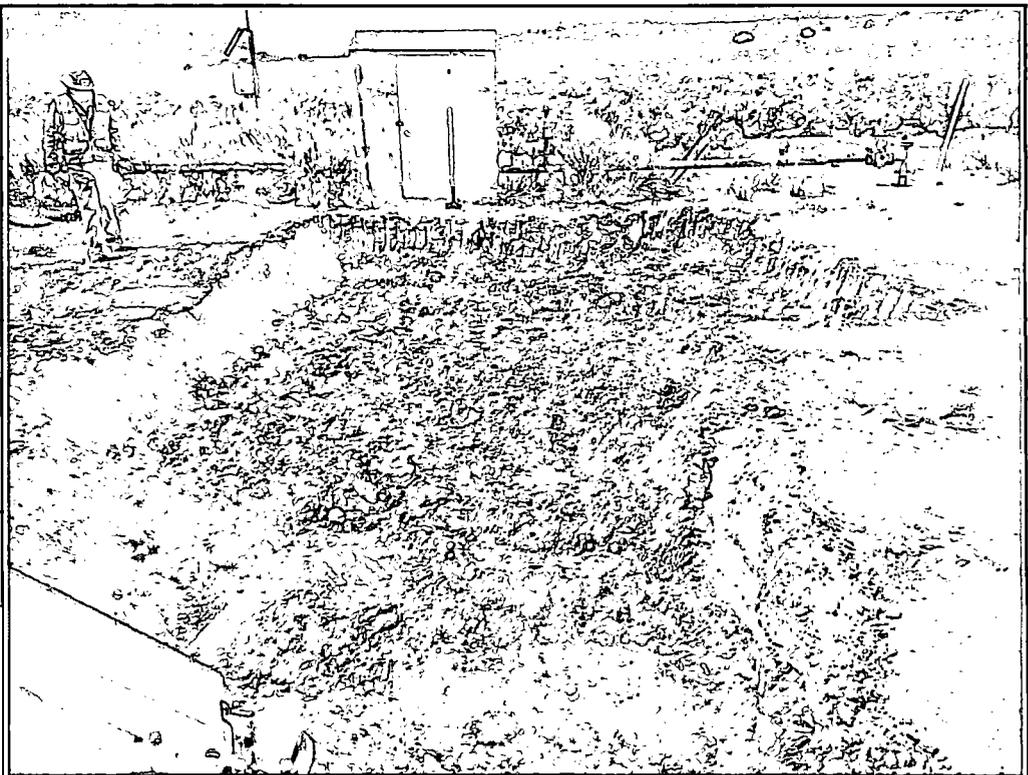
Photo #2	
Client: Enterprise Field Services, LLC	
Project: Jicarilla 35B Gas Com #1	
Taken by: Heather Woods	
Date: March 11, 2014	
AES Project No. 140304	Description: View of impacted area prior to excavation looking west.

Photo #3	
Client: Enterprise Field Services, LLC	
Project: Jicarilla 35B Gas Com #1	
Taken by: Heather Woods	
Date: March 27, 2014	
AES Project No. 140304	Description: View of final excavation looking west.



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

April 07, 2014

Heather Woods

Animas Environmental Services
624 East Comanche
Farmington, NM 87401
TEL: (505) 716-2787
FAX

RE: Enterprise Jicarilla 35B Gas Com #1

OrderNo.: 1403C44

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 2 sample(s) on 3/29/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-1

Project: Enterprise Jicarilla 35B Gas Com #1

Collection Date: 3/28/2014 11:22:00 AM

Lab ID: 1403C44-001

Matrix: SOIL

Received Date: 3/29/2014 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	13	9.9		mg/Kg	1	4/1/2014 4:44:29 PM	12452
Surr: DNOP	80.6	66-131		%REC	1	4/1/2014 4:44:29 PM	12452
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/1/2014 4:34:08 PM	12458
Surr: BFB	88.4	74.5-129		%REC	1	4/1/2014 4:34:08 PM	12458
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	4/1/2014 4:34:08 PM	12458
Toluene	ND	0.047		mg/Kg	1	4/1/2014 4:34:08 PM	12458
Ethylbenzene	ND	0.047		mg/Kg	1	4/1/2014 4:34:08 PM	12458
Xylenes, Total	ND	0.093		mg/Kg	1	4/1/2014 4:34:08 PM	12458
Surr: 4-Bromofluorobenzene	104	80-120		%REC	1	4/1/2014 4:34:08 PM	12458

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-2

Project: Enterprise Jicarilla 35B Gas Com #1

Collection Date: 3/28/2014 11:24:00 AM

Lab ID: 1403C44-002

Matrix: SOIL

Received Date: 3/29/2014 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	16	10		mg/Kg	1	4/1/2014 5:15:28 PM	12452
Surr: DNOP	80.0	66-131		%REC	1	4/1/2014 5:15:28 PM	12452
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/1/2014 5:02:49 PM	12458
Surr: BFB	89.5	74.5-129		%REC	1	4/1/2014 5:02:49 PM	12458
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	4/1/2014 5:02:49 PM	12458
Toluene	ND	0.048		mg/Kg	1	4/1/2014 5:02:49 PM	12458
Ethylbenzene	ND	0.048		mg/Kg	1	4/1/2014 5:02:49 PM	12458
Xylenes, Total	ND	0.095		mg/Kg	1	4/1/2014 5:02:49 PM	12458
Surr: 4-Bromofluorobenzene	105	80-120		%REC	1	4/1/2014 5:02:49 PM	12458

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1403C44

07-Apr-14

Client: Animas Environmental Services
Project: Enterprise Jicarilla 35B Gas Com #1

Sample ID	MB-12452	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	12452	RunNo:	17675					
Prep Date:	3/31/2014	Analysis Date:	3/31/2014	SeqNo:	509001	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	8.4		10.00		84.0	66	131			

Sample ID	LCS-12452	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	12452	RunNo:	17675					
Prep Date:	3/31/2014	Analysis Date:	3/31/2014	SeqNo:	509002	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.5	60.8	145			
Surr: DNOP	4.1		5.000		81.3	66	131			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1403C44

07-Apr-14

Client: Animas Environmental Services
Project: Enterprise Jicarilla 35B Gas Com #1

Sample ID	MB-12458	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	12458	RunNo:	17725					
Prep Date:	3/31/2014	Analysis Date:	4/1/2014	SeqNo:	510700	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	910		1000		90.7	74.5	129			

Sample ID	LCS-12458	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	12458	RunNo:	17725					
Prep Date:	3/31/2014	Analysis Date:	4/1/2014	SeqNo:	510701	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	105	71.7	134			
Surr: BFB	960		1000		96.1	74.5	129			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1403C44

07-Apr-14

Client: Animas Environmental Services
Project: Enterprise Jicarilla 35B Gas Com #1

Sample ID	MB-12458	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	12458	RunNo:	17725					
Prep Date:	3/31/2014	Analysis Date:	4/1/2014	SeqNo:	510717	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		109	80	120			

Sample ID	LCS-12458	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	12458	RunNo:	17725					
Prep Date:	3/31/2014	Analysis Date:	4/1/2014	SeqNo:	510718	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	112	80	120			
Toluene	1.1	0.050	1.000	0	105	80	120			
Ethylbenzene	1.1	0.050	1.000	0	106	80	120			
Xylenes, Total	3.2	0.10	3.000	0	105	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		113	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Sample Log-In Check List

Client Name: **Animas Environmental**

Work Order Number: **1403C44**

RcptNo: **1**

Received by/date:

A.T. *03/29/2014*

Logged By: **Ashley Gallegos**

3/29/2014 10:05:00 AM

AG

Completed By: **Ashley Gallegos**

3/31/2014 12:35:05 PM

AG

Reviewed By:

IO

03/31/2014

Chain of Custody

1. Custody seals intact on sample bottles? Yes No Not Present
2. Is Chain of Custody complete? Yes No Not Present
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes No NA
5. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
6. Sample(s) in proper container(s)? Yes No
7. Sufficient sample volume for indicated test(s)? Yes No
8. Are samples (except VOA and ONG) properly preserved? Yes No
9. Was preservative added to bottles? Yes No NA
10. VOA vials have zero headspace? Yes No No VOA Vials
11. Were any sample containers received broken? Yes No
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes No
13. Are matrices correctly identified on Chain of Custody? Yes No
14. Is it clear what analyses were requested? Yes No
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes No

of preserved bottles checked for pH:
 (<2 or >12 unless noted)
 Adjusted?
 Checked by:

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:		Date:	
By Whom:		Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:			
Client Instructions:			

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.3	Good	Not Present			

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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 August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company: Enterprise Field Services LLC	Contact: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: Jicarilla L#11 DK/GL	Facility Type: Well Site
Surface Owner: Jicarilla Apache Tribe	Mineral Owner: Jicarilla Apache Tribe
API No.	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	3	24N	5W	1595		1682		Rio Arriba

Latitude 36.34485 Longitude -107.34550

NATURE OF RELEASE

Type of Release: Natural Gas and Natural gas liquids	Volume of Release: 20 MCF; Estimated 2-3 BBLs released	Volume Recovered: Unknown
Source of Release: Accidental discharge from a valve on the meter tube.	Date and Hour of Occurrence: 5/12/2014 @ 12:21 p.m.	Date and Hour of Discovery: 5/12/2014 @ 12:45 p.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? JAEPO - Hobson Sandoval; JAO&GA - Bryce Hammond	
By Whom? Thomas Long	Date and Hour 5/12/2014 @ 6:12 p.m. by phone and email	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.

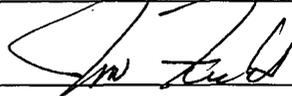
Describe Cause of Problem and Remedial Action Taken: A third party reported a valve leaking on the meter tube. The valve was closed and the well remained in service. Remediation activities are scheduled for May 21, 2014.

OIL CONS. DIV DIST. 9

MAY 27 2014

Describe Area Affected and Cleanup Action Taken.* A third party reported a valve leaking on the meter tube. The valve was closed and the well remained in service. Remediation activities are scheduled for May 21, 2014. A "final" c-141 will be submitted upon receipt of the third party environmental contractor corrective action report.

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: 	OIL CONSERVATION DIVISION	
Printed Name: Jon Fields	Approved by Environmental Specialist: 	
Title: Director, Environmental	Approval Date: <u>5/27/14</u>	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <u>5-21-2014</u> Phone: (713)381-6684		

* Attach Additional Sheets If Necessary

#NCS 1411 475 7334

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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 August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company: Enterprise Field Services LLC	Contact: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: A New Dawn DK/GL Well Site	Facility Type: Well Site Meter Run/Meter Tube
Surface Owner: Jicarilla Apache Tribe	Mineral Owner: BLM
API No.	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	14	24N	5	1338		541		Rio Arriba

Latitude 36.3082 Longitude -107.3380

NATURE OF RELEASE

Type of Release: Natural gas, condensate liquids, paraffin/oil	Volume of Release: 18 mcf	Volume Recovered: Unknown
Source of Release: Natural gas meter tube/meter run	Date and Hour of Occurrence: 12/16/2013 @ 2:30 p.m	Date and Hour of Discovery: 12/16/2013 @ 2:30 p.m
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Brandon Powell NMOCD; Bryce Hammond JAO&G, Hobson Sandoval JAEPO	
By Whom? Thomas Long	Date and Hour 12/17/2013 @ 4:16 p.m. (NMOCD); 17/17/2013 @ 9:29 a.m. (JAO&G)	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

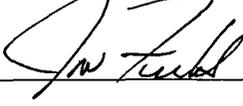
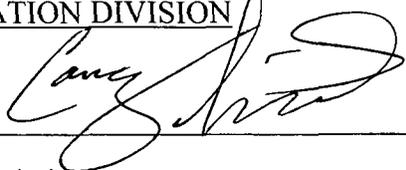
Describe Cause of Problem and Remedial Action Taken.* Measurement Technician discovered a leaking flange on the A New Dawn DKGL meter run. Technicians isolated the meter run and the well tie line to the dogleg. Lock out and tag out (LOTO) **OIL CONS. DIV DIST. 3**

MAY 19 2014

Describe Area Affected and Cleanup Action Taken.*

Remediation activities completed on December 30, 2013. The final was excavation was approximately 17 feet long by 11 feet wide by 0.5 feet deep. Approximately 12 cubic yard of impacted soils were excavated and transported to an NMOCD approved landfarm. A third party environmental contactor corrective action report is included with this "final" c-141.

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: 	OIL CONSERVATION DIVISION	
Printed Name: Jon Fields	Approved by Environmental Specialist: 	
Title: Director, Environmental	Approval Date: <u>5/29/14</u>	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	
Date: <u>5-13-2014</u> Phone: (713)381-6684	Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary

NCS 141 41932 061



OIL CONS. DIV DIST. 3
MAY 19 2014

CORRECTIVE ACTION REPORT

Property:

**A New Dawn Meter Release
SW 1/4, S14 T24N R5W
Jicarilla Apache Nation, Rio Arriba County, New Mexico**

April 10, 2014
Apex Project No. 7030413G020

Prepared for:

**Enterprise Products Operating LLC
614 Reilly Avenue
Farmington, NM 87401
Attn: Mr. Tom Long**

Prepared by:

A handwritten signature in black ink, appearing to read 'Kyle Summers'.

Kyle Summers, C.P.G.
Branch Manager

A handwritten signature in black ink, appearing to read 'B. Chris Mitchell'.

B. Chris Mitchell, P.G.
Principal Geoscientist



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LIST OF APPENDICES

Appendix A:	Figure 1 – Topographic Map Figure 2 – Site Vicinity Map Figure 3 – Site Map
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Appendix C:	Photographic Documentation
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Appendix E:	Laboratory Analytical Reports & Chain of Custody Documentation

CORRECTIVE ACTION REPORT

A New Dawn Meter Release
SW 1/4, S14 T24N R5W
Jicarilla Apache Nation, Rio Arriba County, New Mexico

Apex Project No. 7030413G020

1.0 INTRODUCTION

1.1 Site Description & Background

The "A New Dawn" meter release site is located within the Enterprise Products Operating LLC (Enterprise) pipeline right-of-way (ROW) in the southwest (SW) ¼ of Section 14 in Township 24 North and Range 5 West in the Jicarilla Apache Nation, Rio Arriba County, New Mexico, referred to hereinafter as the "Site" or "subject Site". The Site is on a production well pad, surrounded by native vegetation rangeland periodically interrupted with oil and gas gathering facilities, including one (1) Enterprise natural gas gathering pipeline and meter run which traverses the area from north to south.

On December 30th, 2014, Enterprise initiated corrective action excavation at the "A New Dawn" meter run following the repair of a leaking flange that resulted from a pipeline freeze earlier in the month, and a subsequent condensate/water release to the ground surface. An unknown volume of condensate/water mixture was released to the ground surface west of the meter house from the spraying action of the release. A fiberglass tub installed inside the meter house prevented significant soil impact and vertical migration of the condensate liquids directly beneath the meter house, and the frozen condition of the ground limited vertical migration of the sprayed fluids to the west of the meter run. Soil discoloration and shallow liquid pooling was visible at the ground surface.

A topographic map depicting the location of the Site is included as Figure 1, and a Site Vicinity Map is included as Figure 2 in Appendix A.

1.2 Project Objective

The primary objective of the corrective actions was to reduce the concentration of chemicals of concern (COCs) in the on-Site soils to below the New Mexico Energy, Minerals, and Natural Resources Department (EMNRD), Oil Conservation Division (OCD) *Remediation Action Levels (RALs)* using the New Mexico EMNRD OCD's *Guidelines for Remediation of Leaks, Spills and Releases* as guidance.

1.3 Standard of Care

Apex TITAN's (Apex's) services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Apex makes no warranties, expressed or implied, as to the services performed hereunder. Additionally, Apex does not warrant the work of third parties supplying information used in the report (e.g. laboratories, regulatory agencies, or other third parties). This scope of services was performed in accordance with the scope of work agreed with the client.



1.4 Additional Limitations

Findings, conclusions and recommendations resulting from these services are based upon information derived from the on-Site activities and other services performed under this scope of work and it should be noted that this information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and Apex cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this scope of services. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Apex's findings and recommendations are based solely upon data available to Apex at the time of these services.

1.5 Reliance

This report has been prepared for the exclusive use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the expressed written authorization of Enterprise and Apex. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the proposal, the report, and Apex's Agreement. The limitation of liability defined in the agreement is the aggregate limit of Apex's liability to the client.

2.0 SITE RANKING

The Site is under the jurisdiction of the Jicarilla Apache Nation Environmental Protection Office (JANEPO). In the absence of published JANEPO regulatory guidance, Apex referenced the New Mexico ENMRD OCD's *Guidelines for Remediation of Leaks, Spills and Releases*. Apex utilized the general site characteristics obtained during the completion of corrective action activities to determine the appropriate "ranking" for the Site. The ranking criteria and associated scoring are provided in the table below:

Ranking Criteria			Ranking Score
Depth to Groundwater	<50 feet	20	10*
	50 to 99 feet	10	
	>100 feet	0	
Wellhead Protection Area • <1,000 feet from a water source, or; <200 feet from private domestic water source.	Yes	20	0
	No	0	
Distance to Surface Water Body	<200 feet	20	10
	200 to 1,000 feet	10	
	>1,000 feet	0	
Total Ranking Score			20

*Based on an anticipated groundwater depth of >50 feet below grade surface (bgs).

Based on Apex's evaluation of the scoring criteria, the Site would have a Total Ranking Score of "20". This ranking is based on the following:

- The nearest water well documented by the Office of the State Engineer website database is located over 2.5 miles west of the Site, with a recorded depth to water of 240 feet bgs. However, the proximity of the site to several small ephemeral washes and to Largo wash

approximately 1,600 feet to the north would indicate a potential depth to water of less than 50 feet bgs, resulting in a ranking of "10" for depth to groundwater.

- There are two un-named ephemeral washes located approximately 450 feet west and 500 feet east of the site which might be considered a "surface water body", resulting in a ranking of "10" for distance to surface water body. However, these washes appear to only convey water during significant rain events.
- No water sources were identified within the search radius.

3.0 RESPONSE ACTIONS

3.1 Soil Excavation Activities

On December 30th, 2014, Enterprise initiated corrective action excavation at the "A New Dawn" meter run following the repair of a leaking flange that resulted from a pipeline freeze earlier in the month, and a subsequent condensate/water release to the ground surface. An estimated five (5) to ten (10) barrels of condensate/water mixture was released to the ground surface west of the meter house from the spraying action of the release. A fiberglass tub installed inside the meter house prevented significant soil impact and vertical migration of the condensate liquids directly beneath the meter house, and the frozen condition of the ground limited vertical migration of the sprayed fluids to the west of the meter run. Soil discoloration and shallow liquid pooling was visible at the ground surface. During the corrective action activities, Industrial Mechanical Inc. provided heavy equipment and labor support, and Kyle Summers, an Apex environmental professional, provided environmental support.

Subsequent to the meter house repair activities, hydrocarbon affected soils were excavated at the Site. The total depth of the final excavation ranged from 0.5 feet bgs to approximately 1.5 feet bgs in the release footprint. The overall average surface expression of the excavation measured approximately 17 feet long by 11 feet wide.

Subsequent analytical results from soils remaining in place indicate no remaining hydrocarbon impact above the OCD RALs.

A total of approximately 12 cubic yards of hydrocarbon affected soils were transported to the TNT Inc., landfarm near Lindrith, NM for disposal/remediation. The executed C-138 form is provided in Appendix B. The excavation was backfilled with clean imported fill from a Jicarilla approved stock pile near road J-6, and contoured to surrounding grade.

During excavation activities, air in the breathing zone was monitored to ensure that the Occupational Safety and Health Administration (OSHA) Permissible Exposure Limit (PEL) of 200 parts per million (ppm) Time Weighted Average (TWA) for an 8-hour work day was not exceeded. Additionally, Enterprise monitored the excavation for explosive atmosphere conditions and oxygen deficiency prior to any entries into the excavation.

The lithology encountered during the completion of corrective action activities consisted primarily of silty-sands.

Figure 3 is a site map that indicates the approximate location of the excavated area in relation to pertinent land features (Appendix A). Photographic documentation of the field activities is included in Appendix C.

3.2 Soil Sampling Program

Apex screened head-space samples of the impacted soils with a photoionization detector (PID) fitted with a 10.6 eV lamp to estimate excavation limits.

Apex's soil sampling program included the collection of one (1) five-part composite confirmation sample (Comp-1) from the resulting excavation for laboratory analysis. The composite aliquot locations were evenly spaced around the excavation footprint.

Figure 3 depicts the approximate location of the excavated areas and shows the final confirmation sample locations in relation to the final excavation dimensions (Appendix A).

The confirmation soil sample was collected and placed in laboratory prepared glassware, labeled/sealed using the laboratory supplied label, and placed on ice in a cooler, which was secured with a custody seal. The sample cooler and completed chain-of-custody form were relinquished to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico for 24-hr rush analysis.

4.0 LABORATORY ANALYTICAL METHODS

The confirmation soil sample was analyzed for benzene, toluene, ethylbenzene and xylenes (BTEX) using EPA SW-846 Method #8021, and total petroleum hydrocarbons (TPH) gasoline range organics (GRO) and diesel range organics (GRO) using EPA SW-846 Method #8015.

Laboratory results are summarized in Table 1, included in Appendix D. The executed chain-of-custody form and laboratory data sheets are provided in Appendix E.

5.0 DATA EVALUATION

The Site is under the jurisdiction of the JANEPO. In the absence of published JANEPO regulatory guidance, Apex referenced New Mexico OCD *Guidelines for Remediation of Leaks, Spills and Releases* as guidance, in addition to the OCD rules, specifically NMAC 19.15.30 *Remediation*. These guidance documents establish investigation and abatement action requirements for sites subject to reporting and/or corrective action.

5.1 Confirmation Soil Samples

Apex compared the BTEX and TPH concentrations or reporting limits (RLs) associated with the one (1) composite confirmation sample collected from the excavated area to the OCD *Remediation Action Levels* for sites having a total ranking score of "20".

- The laboratory analysis of the confirmation sample collected from soils remaining in place do not indicate benzene concentrations above laboratory reporting limits, which are below the OCD *Remediation Action Level*.
- The laboratory analysis of the confirmation sample collected from soils remaining in place do not indicate total BTEX concentrations above laboratory reporting limits, which are below the OCD *Remediation Action Level*.
- The laboratory analyses of the confirmation sample collected from soils remaining in place do not indicate TPH GRO/DRO concentrations above laboratory reporting limits,

which are below the OCD *Remediation Action Level* of 100 mg/Kg for a Site ranking of "20".

Confirmation sample results are provided in Table 1 in Appendix D.

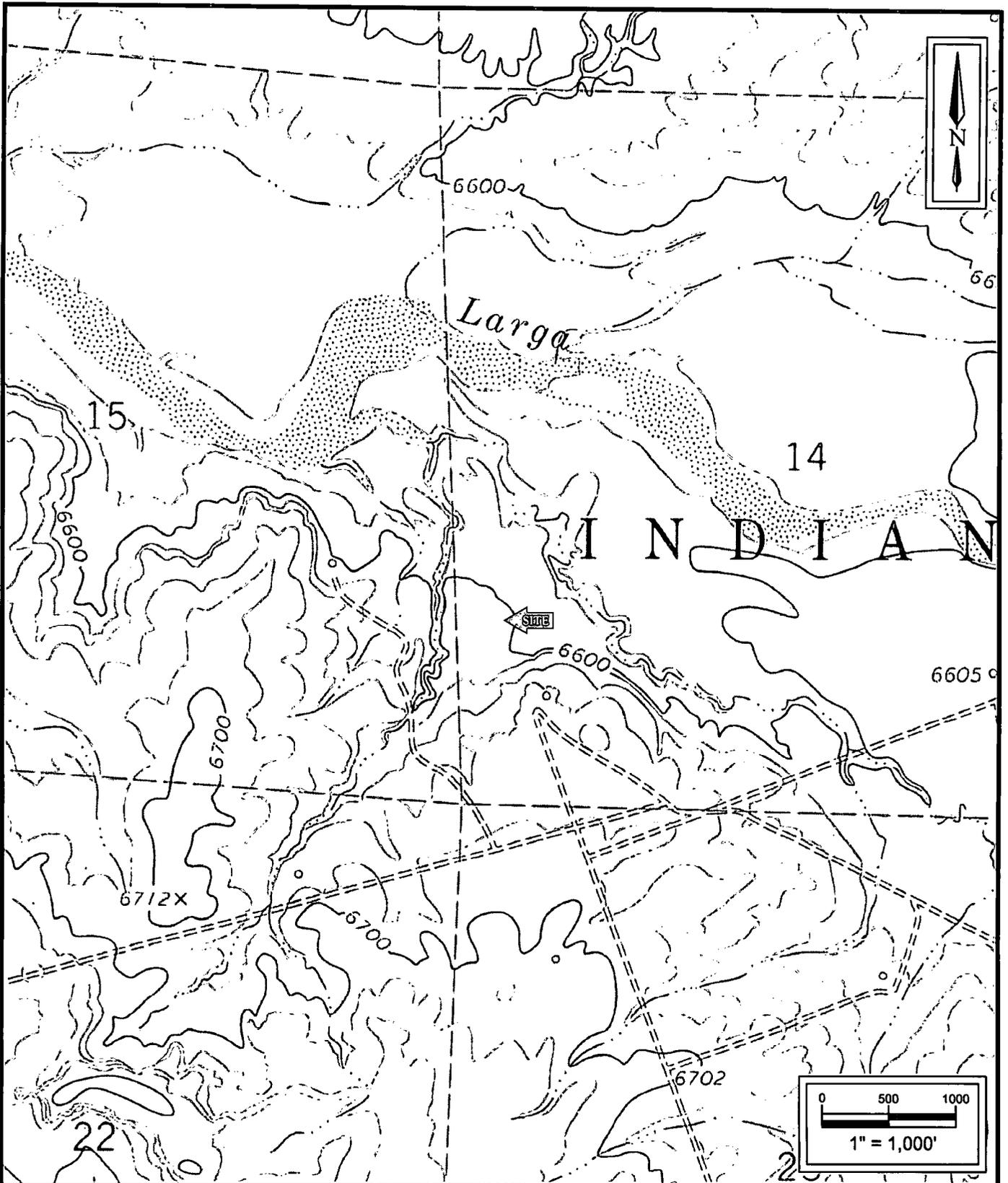
6.0 FINDINGS AND RECOMMENDATIONS

The "A New Dawn" meter release site is located within the Enterprise pipeline ROW in the SW ¼ of Section 14 in Township 24 North and Range 5 West in the Jicarilla Apache Nation, Rio Arriba County, New Mexico. The Site is on a well pad, surrounded by native vegetation rangeland periodically interrupted with oil and gas gathering facilities, including one (1) Enterprise natural gas gathering pipeline and meter run which traverses the area from north to south.

On December 30th, 2014, Enterprise initiated corrective action excavation at the "A New Dawn" meter run following the repair of a leaking flange that resulted from a pipeline freeze earlier in the month, and a subsequent condensate/water release to the ground surface. An unknown volume of condensate/water mixture was released to the ground surface west of the meter house from the spraying action of the release. A fiberglass tub installed inside the meter house prevented significant soil impact and vertical migration of the condensate liquids directly beneath the meter house, and the frozen condition of the ground limited vertical migration of the sprayed fluids to the west of the meter run. Soil discoloration and shallow liquid pooling was visible at the ground surface.

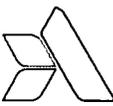
- The primary objective of the corrective actions was to reduce the concentration of COCs in the on-Site soils to below the New Mexico EMNRD OCD *R* using the New Mexico EMNRD OCD's *Guidelines for Remediation of Leaks, Spills and Releases* as guidance.
- The total depth of the final excavation ranged from 0.5 feet bgs to approximately 1.5 feet bgs in the release footprint. The overall average surface expression of the excavation measured approximately 17 feet long by 11 feet wide.
- Prior to backfilling the excavation, a five-part composite confirmation sample was collected from the resulting excavation for laboratory analysis. Based on analytical results, soils remaining in place do not exhibit COC concentrations above the OCD *Remediation Action Levels* for a Site ranking of "20".
- A total of approximately 12 cubic yards of hydrocarbon affected soils were transported to the TNT Inc., landfarm near Lindrith, NM for disposal/remediation. The excavation was backfilled with clean imported fill from a Jicarilla approved stockpile near road J-6, and contoured to surrounding grade.
- The lithology encountered during the completion of corrective action activities consisted primarily of silty-sands.

Based on the laboratory analytical results, no additional investigation or corrective action appears warranted at this time.



A New Dawn Meter Release
 S14 T24N R5W
 Rural Rio Arriba County, New Mexico
 36.3082N, -107.3380W

Project No. 7030413G020.001



Apex TITAN, Inc.
 606 S. Rio Grande, Suite A
 Aztec, New Mexico 87410
 Phone: (505) 334-5200
www.apexcos.com
 A Subsidiary of Apex Companies, LLC

FIGURE 1
Topographic Map
 Otero Store, NM Quadrangle
 1963



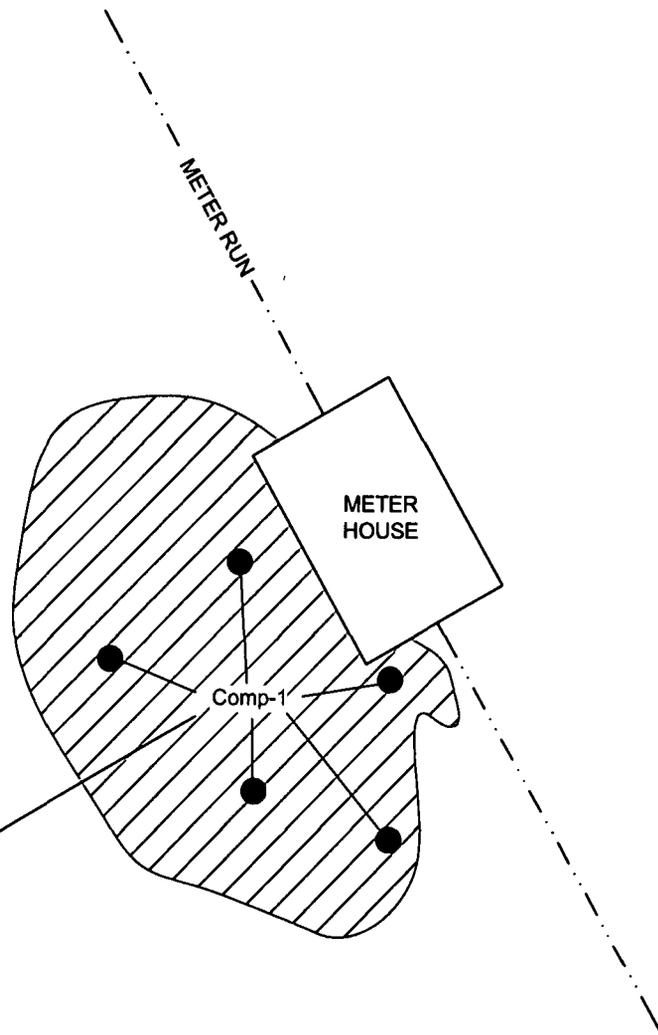
A New Dawn Meter Release
S14 T24N R5W
Rural Rio Arriba County, New Mexico
36.3082N, -107.3380W



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FIGURE 2
Site Vicinity Map
2012 Aerial Photograph

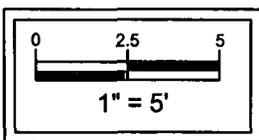
Project No. 7030413G020.001



<u>Comp-1</u> <u>12/30/2013</u>	
Benzene:	<0.048
Toluene:	<0.048
Ethylbenzene:	<0.048
Xylenes:	<0.095
Total BTEX:	ND
GRO:	<4.8
DRO:	<9.9

LEGEND:

- COMPOSITE SAMPLE ALIQUOT LOCATION
- ▨ EXTENT OF SPILL AND EXCAVATION



A New Dawn Meter Release
S14 T24N R5W
Rural Rio Arriba County, New Mexico
36.3082N, -107.3380W

Project No. 7030413G020.001



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Aztec, New Mexico 87410
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A Subsidiary of Apex Companies, LLC

FIGURE 3
Site Map with
Soil Analytical Results

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-138
Revised 08/01/11

*Surface Waste Management Facility Operator
and Generator shall maintain and make this
documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address: Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401	Paykey Code: GG11580
2. Originating Site: A New Dawn well site	
3. Location of Material (Street Address, City, State or ULSTR): Unit L, Sec14, T 24N, R 05W, Rio Arriba County, NM; 36.30842, -107.3368	
4. Source and Description of Waste: Source: Pipeline/Flange Release Description: Exempt petroleum affected soil from clean-up efforts at well site Estimated Volume <u>5</u> yd ³ / bbls Known Volume (to be entered by the operator at the end of the haul) <u>12</u> <u>12</u> yd ³ bbls	
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS I, <u>Thomas Long</u> , Thomas Long, representative or authorized agent for Enterprise Field Services, LLC do hereby Generator Signature certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification) <input checked="" type="checkbox"/> RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non- exempt waste. <u>Operator Use Only: Waste Acceptance Frequency</u> <input type="checkbox"/> Monthly <input type="checkbox"/> Weekly <input checked="" type="checkbox"/> Per Load <input type="checkbox"/> RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items) <input type="checkbox"/> MSDS Information <input type="checkbox"/> RCRA Hazardous Waste Analysis <input checked="" type="checkbox"/> Process Knowledge <input type="checkbox"/> Other (Provide description in Box 4)	
GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS I, <u>Thomas Long</u> , representative for Enterprise Field Services, LLC authorize T-N-T to complete Generator Signature the required testing/sign the Generator Waste Testing Certification. I, <u>Craig</u> , representative for <u>T-N-T Enviro</u> do hereby certify that Representative/Agent Signature representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.	
5. Transporter: IMI, WestStates or unknown trucking company on OCD approved haulers list.	

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: TNT Evap Pond/Landfarm, NM01-0008
Address of Facility: 70 CR 405, Lindrith NM

Method of Treatment and/or Disposal:

Evaporation Injection Treating Plant Landfarm Landfill Other

Waste Acceptance Status:

APPROVED

DENIED (Must Be Maintained As Permanent Record)

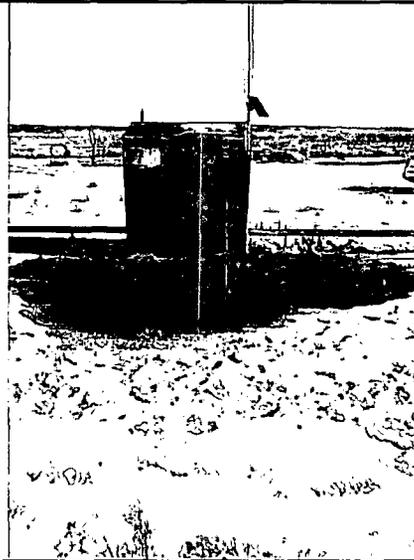
PRINT NAME: Craig Schmitz
SIGNATURE: Craig Schmitz
Surface Waste Management Facility Authorized Agent

TITLE: Pres.
TELEPHONE NO. 505-320-2737

DATE: 12-30-13

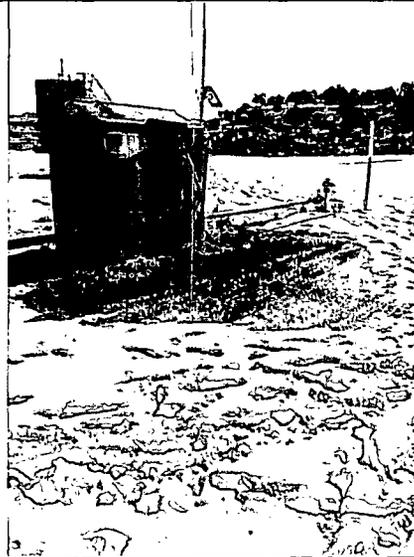
Photograph 1

Condensate and water pooled outside of meter house, looking towards the east.



Photograph 2

Condensate and water pooled outside meter house, looking towards the southeast.



Photograph 3

Excavation activities removing hydrocarbon affected soil near A New Dawn meter house.



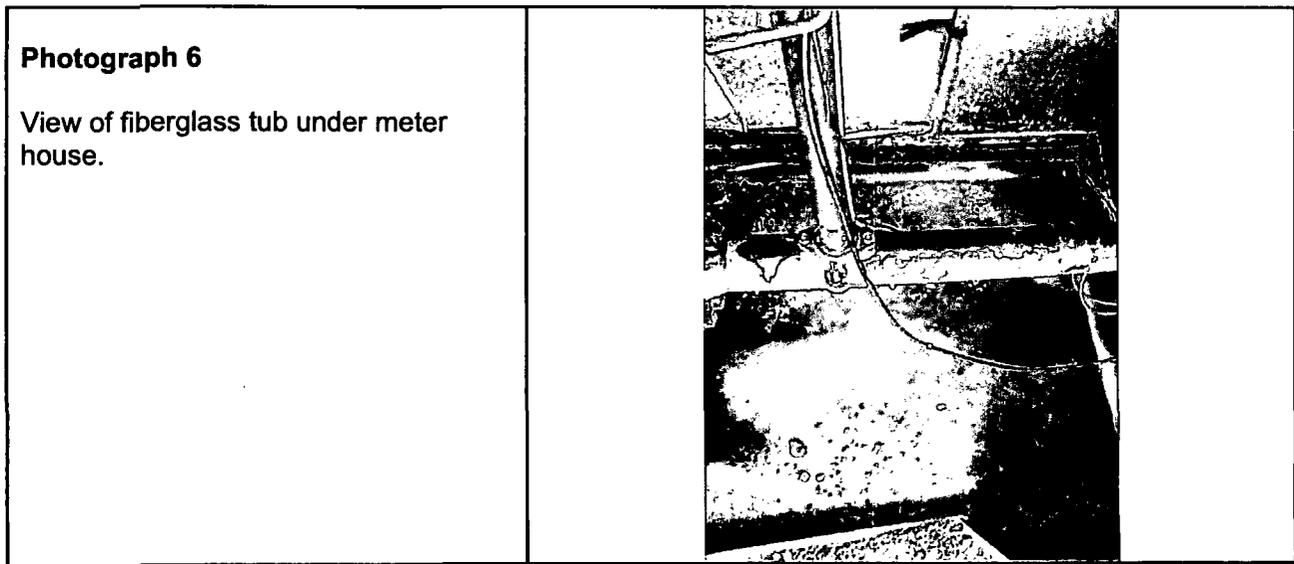
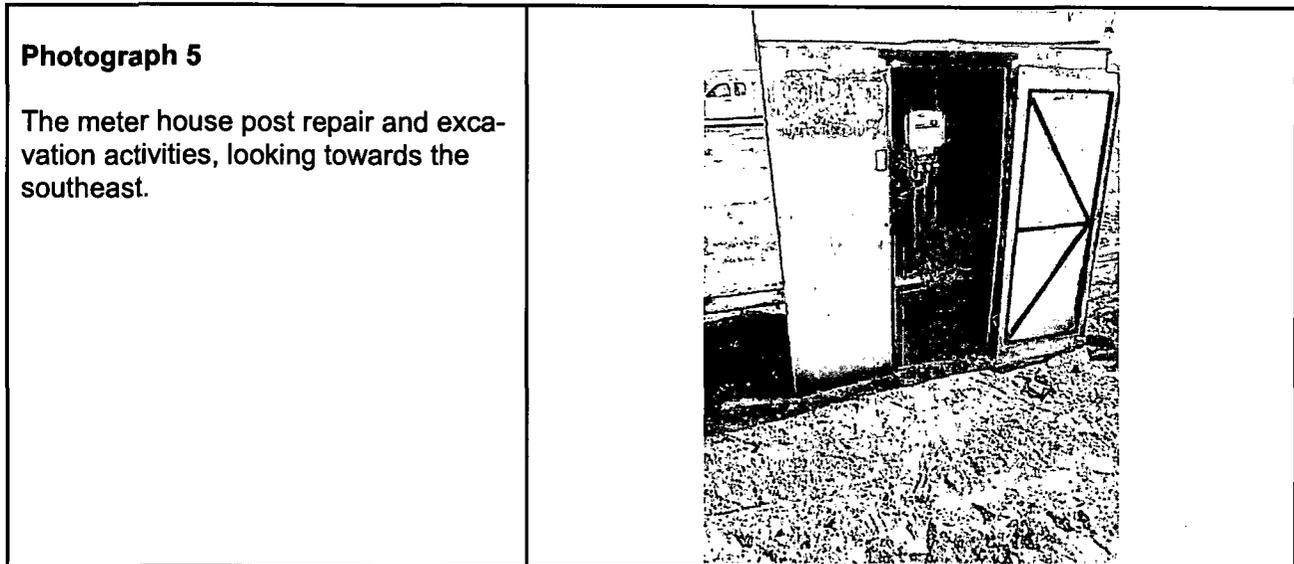
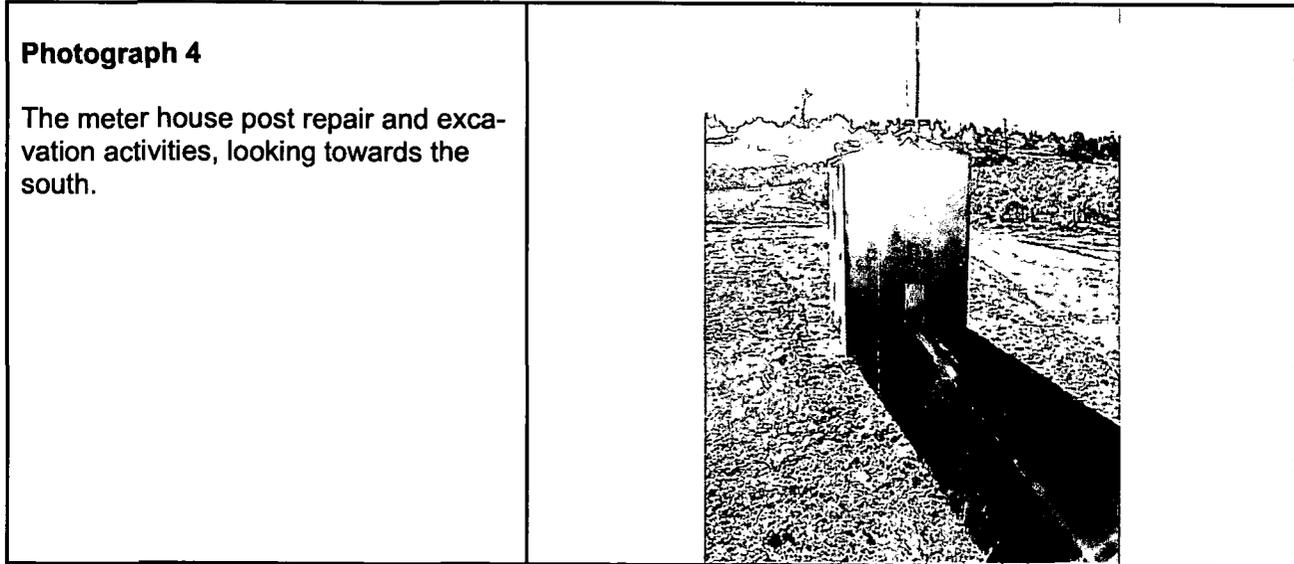




TABLE 1
A New Dawn - Meter Freeze
SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Type C- Composite G Grab	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)
New Mexico Energy, Mineral & Natural Resources Department, Oil Conservation Division, Remediation Action Level				10	NE	NE	NE	50	100	
Confirmation Samples										
Comp-1	12/30/2013	C	0.5 - 1.5	<0.048	<0.048	<0.048	<0.095	ND	<4.8	<9.9

Note: Concentrations in bold and yellow exceed the applicable OCD Remediation Action Level

NA = Not Analyzed

NE = Not Established



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

January 10, 2014

Kyle Summers
Southwest Geoscience
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (903) 821-5603
FAX

RE: A New Dawn

OrderNo.: 1401055

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 1 sample(s) on 1/2/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
 Project: A New Dawn
 Lab ID: 1401055-001

Matrix: SOIL

Client Sample ID: Comp-1
 Collection Date: 12/30/2013 1:10:00 PM
 Received Date: 1/2/2014 4:10:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/8/2014 9:48:52 AM	11080
Surr: DNOP	77.5	66-131		%REC	1	1/8/2014 9:48:52 AM	11080
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/7/2014 3:33:13 PM	11087
Surr: BFB	86.9	74.5-129		%REC	1	1/7/2014 3:33:13 PM	11087
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	1/7/2014 3:33:13 PM	11087
Toluene	ND	0.048		mg/Kg	1	1/7/2014 3:33:13 PM	11087
Ethylbenzene	ND	0.048		mg/Kg	1	1/7/2014 3:33:13 PM	11087
Xylenes, Total	ND	0.095		mg/Kg	1	1/7/2014 3:33:13 PM	11087
Surr: 4-Bromofluorobenzene	96.1	80-120		%REC	1	1/7/2014 3:33:13 PM	11087

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:		
*	Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
E	Value above quantitation range	H Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1401055
10-Jan-14

Client: Southwest Geoscience
Project: A New Dawn

Sample ID	MB-11080	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	11080	RunNo:	15891					
Prep Date:	1/6/2014	Analysis Date:	1/6/2014	SeqNo:	458449	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	8.3		10.00		82.9	66	131			

Sample ID	LCS-11080	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	11080	RunNo:	15891					
Prep Date:	1/6/2014	Analysis Date:	1/6/2014	SeqNo:	458450	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	57	10	50.00	0	114	60.8	145			
Surr: DNOP	4.5		5.000		90.0	66	131			

Sample ID	1401055-001AMS	SampType:	MS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	Comp-1	Batch ID:	11080	RunNo:	15911					
Prep Date:	1/6/2014	Analysis Date:	1/7/2014	SeqNo:	458919	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	62	10	50.15	0	123	47.4	148			
Surr: DNOP	4.7		5.015		94.3	66	131			

Sample ID	1401055-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	Comp-1	Batch ID:	11080	RunNo:	15911					
Prep Date:	1/6/2014	Analysis Date:	1/7/2014	SeqNo:	458921	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	61	10	49.75	0	123	47.4	148	1.08	22.7	
Surr: DNOP	4.5		4.975		89.8	66	131	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1401055

10-Jan-14

Client: Southwest Geoscience

Project: A New Dawn

Sample ID	MB-11087	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	11087	RunNo:	15923					
Prep Date:	1/6/2014	Analysis Date:	1/7/2014	SeqNo:	459260	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	840		1000		84.2	74.5	129			

Sample ID	LCS-11087	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	11087	RunNo:	15923					
Prep Date:	1/6/2014	Analysis Date:	1/7/2014	SeqNo:	459261	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	74.5	126			
Surr: BFB	980		1000		97.5	74.5	129			

Sample ID	1401055-001AMS	SampType:	MS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	Comp-1	Batch ID:	11087	RunNo:	15923					
Prep Date:	1/6/2014	Analysis Date:	1/7/2014	SeqNo:	459264	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	4.8	23.79	0	114	69.5	145			
Surr: BFB	920		951.5		96.2	74.5	129			

Sample ID	1401055-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	Comp-1	Batch ID:	11087	RunNo:	15923					
Prep Date:	1/6/2014	Analysis Date:	1/7/2014	SeqNo:	459265	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	4.8	23.83	0	113	69.5	145	1.18	20	
Surr: BFB	940		953.3		98.7	74.5	129	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1401055

10-Jan-14

Client: Southwest Geoscience

Project: A New Dawn

Sample ID	MB-11087	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	11087	RunNo:	15923					
Prep Date:	1/6/2014	Analysis Date:	1/7/2014	SeqNo:	459281	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.93		1.000		93.3	80	120			

Sample ID	LCS-11087	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	11087	RunNo:	15923					
Prep Date:	1/6/2014	Analysis Date:	1/7/2014	SeqNo:	459282	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.050	1.000	0	96.2	80	120			
Toluene	0.95	0.050	1.000	0	95.0	80	120			
Ethylbenzene	0.96	0.050	1.000	0	96.5	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.5	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Sample Log-In Check List

Client Name: Southwest Geoscience A

Work Order Number: 1401055

RcptNo: 1

Received by/date: LM 01/02/14

Logged By: Anne Thorne 1/2/2014 4:10:00 PM *Anne Thorne*

Completed By: Anne Thorne 1/3/2014 *Anne Thorne*

Reviewed By: *mg* 01/03/14

Chain of Custody

- 1. Custody seals intact on sample bottles? Yes No Not Present
- 2. Is Chain of Custody complete? Yes No Not Present
- 3. How was the sample delivered? Client

Log In

- 4. Was an attempt made to cool the samples? Yes No NA
- 5. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- 6. Sample(s) in proper container(s)? Yes No
- 7. Sufficient sample volume for indicated test(s)? Yes No
- 8. Are samples (except VOA and ONG) properly preserved? Yes No
- 9. Was preservative added to bottles? Yes No NA
- 10. VOA vials have zero headspace? Yes No No VOA Vials
- 11. Were any sample containers received broken? Yes No
- 12. Does paperwork match bottle labels? Yes No
(Note discrepancies on chain of custody)
- 13. Are matrices correctly identified on Chain of Custody? Yes No
- 14. Is it clear what analyses were requested? Yes No
- 15. Were all holding times able to be met? Yes No
(If no, notify customer for authorization.)

of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)
 Adjusted? _____
 Checked by: _____

Special Handling (if applicable)

- 16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No.	Temp °C	Condition	Seal Intact	Seal No.	Seal Date	Signed By
1	5.8	Good	Yes			

CHAIN OF CUSTODY RECORD

<h1 style="margin: 0;">Southwest</h1> <p style="margin: 0;">GEOSCIENCE</p> <p style="margin: 0; font-size: small;">Environmental & Hydrogeologic Consultants</p>		Laboratory: <u>Hall</u> Address: <u>ABQ</u>		ANALYSIS REQUESTED <div style="font-size: 2em; transform: rotate(-45deg); opacity: 0.5; position: absolute; top: 50%; left: 50%;"> BTEN 8021 TPH GRO/DRO 8015 </div>										Lab use only Due Date: _____				
		Office Location: <u>Aztec</u> Contact: <u>Freeman</u> Phone: _____												Temp. of coolers when received (C°): <u>5.0</u>				
Project Manager: <u>Summers</u>		PO/SO #: <u>04136020</u>		Page <u>1</u> of <u>1</u>														
Sampler's Name: <u>Kyle Summers</u>		Sampler's Signature: <u>[Signature]</u>																
Proj. No: <u>04136020</u>		Project Name: <u>A New Dawn</u>			No/Type of Containers: _____					Lab Sample ID (Lab Use Only) <u>1401055-001</u>								
Matrix: <u>S</u>		Date: <u>12/30/13</u>		Time: <u>10:15</u>		Comp: <u>X</u>	Grab: _____	Identifying Marks of Sample(s): <u>Comp-1</u>							Start Depth: <u>1'</u>	End Depth: <u>1'</u>	VOA: _____	A/G 1 Lt: _____
<div style="font-size: 2em; opacity: 0.5;"> NFS MS </div>																		
Turn around time: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> 25% Rush <input type="checkbox"/> 50% Rush <input type="checkbox"/> 100% Rush																		
Relinquished by (Signature): <u>[Signature]</u>		Date: <u>1/2/14</u>		Time: <u>7:30</u>		Received by (Signature): <u>[Signature]</u>		Date: <u>1/2/14</u>		Time: <u>7:30</u>		NOTES:						
Relinquished by (Signature): <u>[Signature]</u>		Date: <u>1/2/14</u>		Time: <u>4:10</u>		Received by (Signature): <u>[Signature]</u>		Date: <u>1/2/14</u>		Time: <u>11:10</u>								
Relinquished by (Signature): _____		Date: _____		Time: _____		Received by (Signature): _____		Date: _____		Time: _____								
Relinquished by (Signature): _____		Date: _____		Time: _____		Received by (Signature): _____		Date: _____		Time: _____								
Matrix Container: <u>WW - Wastewater</u> <u>W - Water</u> <u>S - Soil</u> <u>SD - Solid</u> <u>L - Liquid</u> <u>A - Air Bag</u> <u>C - Charcoal tube</u> <u>SL - sludge</u> <u>O - Oil</u> VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other																		

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811 S. First St., 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 August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company: Enterprise Field Services LLC	Contact: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: Jicarilla 35B Gas Com #1	Facility Type: Well Site

Surface Owner: Jicarilla Apache Tribe	Mineral Owner: Jicarilla Apache Tribe	API No.
---------------------------------------	---------------------------------------	---------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	11	24N	5W					Rio Arriba

Latitude 36.3283 Longitude -107.3256

NATURE OF RELEASE

Type of Release: Natural Gas and Natural gas liquids	Volume of Release: Unknown	Volume Recovered: Unknown
Source of Release: Accidental discharge during a meter tube blow down	Date and Hour of Occurrence: 3/4/2014:00 1:35 p.m.	Date and Hour of Discovery: 3/4/2014:00 1:35 p.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? JAEPO – Hobson Sandoval, JAO&GA – Bryce Hammond, Jonathan Kelly - NMOCD	
By Whom? Thomas Long	Date and Hour 3/4/2014 @ 5:07 p.m. by phone and email	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

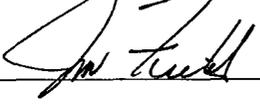
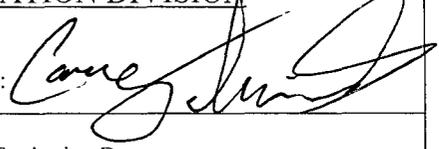
If a Watercourse was Impacted, Describe Fully.

Describe Cause of Problem and Remedial Action Taken: During routine maintenance activities a release occurred while blowing down the meter tube. An area of approximately 32 feet long by 10 feet wide was affected. The meter tube taken out of service and OIL CON. DIV DIST. 3 (lockout tag out) was applied.

APR 11 2014

Describe Area Affected and Cleanup Action Taken.* During routine maintenance activities a release occurred while blowing down the meter tube. An area of approximately 32 feet long by 10 feet wide was affected. Remediation activities are scheduled for the week of March 17, 2014. A "final" c-141 will be submitted upon receipt of the third party environmental contractor corrective action report.

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: 	OIL CONSERVATION DIVISION	
Printed Name: Jon Fields	Approved by Environmental Specialist: 	
Title: Sr. Director, Environmental	Approval Date: <u>5/15/14</u>	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <u>4-7-2014</u> Phone: (713)381-6684		

* Attach Additional Sheets If Necessary

#NCS 141 25 29955

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Energy Minerals and Natural Resources

Form C-141
Revised August 8, 2011

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

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company: Enterprise Field Services LLC	Contact: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: Canyon Largo #85	Facility Type: Well Site

OIL CONS. DIV DIST. 3

JUN 2 2014

Surface Owner: BLM	Mineral Owner: BLM	API No.
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	13	24N	6W	1797	South	1064	East	Rio Arriba

Latitude 36.310455 Longitude -107.414730

NATURE OF RELEASE

Type of Release: Produced Water, Condensate and Oil	Volume of Release: Estimated 15-25 bbls	Volume Recovered: Unknown
Source of Release: Valve Release	Date and Hour of Occurrence: 5/16/2014 @ 11:30 a.m.	Date and Hour of Discovery: 5/16/2014 @ 11:40 a.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Cory Smith - NMOCD, Shari Ketchum - BLM	
By Whom? Thomas Long	Date and Hour 5/16/2014 @ 2:56 p.m. phone call and email	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse	

If a Watercourse was Impacted, Describe Fully.*
Describe Cause of Problem and Remedial Action Taken.* A release occurred during pigging operations at the Canyon Largo #85 well site. An estimated 15-25 bbls of condensate, water and oil were released onto the well pad, the pipeline right of way (ROW) and land adjacent to the well pad. An area of approximately one-hundred- fifty (150) feet long by one-hundred- fifty (150) feet wide was impacted on the well pad. An area of approximately three-hundred (300) feet long by three (3) feet wide was impacted along the pipeline ROW. An area of approximately 1/4 acre was misted adjacent to the well pad. The release area was secured and remediation activities began May 21, 2014.

Describe Area Affected and Cleanup Action Taken.* An area of approximately one-hundred- fifty (150) feet long by one-hundred- fifty (150) feet wide was impacted on the well pad. An area of approximately three-hundred (300) feet long by three (3) feet wide was impacted along the pipeline ROW. An area of approximately 1/4 acre was misted adjacent to the well pad. The release area was secured and remediation activities began May 21, 2014. A "final" c-141 will be submitted upon receipt of the third party environmental contractor corrective action report.

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:	OIL CONSERVATION DIVISION	
Printed Name: Jon Fields	Approved by Environmental Specialist:	
Title: Director, Environmental	Approval Date: 6/2/14	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 5-29-2014	Phone: (713)381-6684	

* Attach Additional Sheets If Necessary

#NCS 1415353 393

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1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company: Enterprise Field Services LLC	Contact: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: Jicarilla C#27E	Facility Type: Well Site

Surface Owner: Jicarilla Apache Tribe	Mineral Owner: BLM	API No.
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	33	25N	5W	733		1583		Rio Arriba

Latitude 36.361853 Longitude -107.361710

NATURE OF RELEASE

Type of Release: Natural Gas and Natural gas liquids	Volume of Release: Unknown amount of Gas; Estimated 1-2 bbls fluids	Volume Recovered: Unknown
Source of Release: A 1/2 inch valve of a meter tube	Date and Hour of Occurrence: 2/20/2014:00 2:30 p.m.	Date and Hour of Discovery: 2/20/2014 @ 2:30 p.m.
Was Immediate Notice Given? Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required <input type="checkbox"/>	If YES, To Whom? JAEPO - Hobson Sandoval, JAO&G - Bryce Hammond	
By Whom? Thomas Long	Date and Hour 2/20/2014 @ 5:30 p.m. by phone and email; NMOCD - Jonathan Kelly on 2/21/2014 by email	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

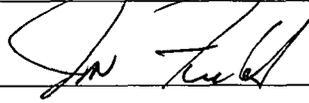
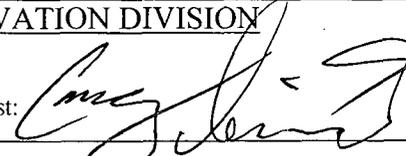
If a Watercourse was Impacted, Describe Fully.

Describe Cause of Problem and Remedial Action Taken.* A 1/2 inch valve of a meter tube was left open releasing condensate, oil and water. An area on the ground surface of approximately ten (10) feet by twenty (20) was affected. The meter tube blown down, taken out of service and LOTO (lock out tag out) was applied. The repairs/remediation activities were completed February 27, 2014.

OIL CONS. DIV DIST. 3

Describe Area Affected and Cleanup Action Taken.* A 1/2 inch valve of a meter tube was left open releasing condensate, oil and water. The final excavation was approximately eighteen (18) feet long by thirteen (13) wide ranging from 0.5 feet below ground surface (bgs) to two (2) feet bgs. The repairs/remediation activities were completed February 27, 2014. A third party environmental contractor corrective action report is included with this "final" c-141.

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: 	OIL CONSERVATION DIVISION	
Printed Name: Jon Fields	Approved by Environmental Specialist: 	
Title: Director, Environmental	Approval Date: 6/10/14	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 6-3-2014	Phone: (713)381-6684	

* Attach Additional Sheets If Necessary

#NCS 141 615119



CORRECTIVE ACTION REPORT

Property:

**Jicarilla C #27E Meter Run Valve Release
NE 1/4, S33 T25N R5W
Rio Arriba County, New Mexico**

OIL CONS. DIV DIST. 3

JUN 09 2014

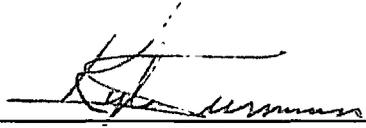
May 15, 2014

Apex Project No. 7030414G007

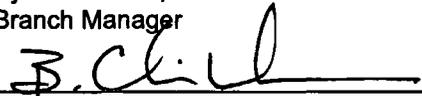
Prepared for:

**Enterprise Products Operating LLC
614 Reilly Avenue
Farmington, NM 87401
Attn: Mr. Tom Long**

Prepared by:



Kyle Summers, C.P.G.
Branch Manager



B. Chris Mitchell, P.G.
Principal Geoscientist

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LIST OF APPENDICES

Appendix A:	Figure 1 – Topographic Map Figure 2 – Site Vicinity Map Figure 3 – Site Map with Sample Location
Appendix B:	Executed C-138 Solid Waste Acceptance Forms
Appendix C:	Photographic Documentation
Appendix D:	Tables
Appendix E:	Laboratory Analytical Reports & Chain of Custody Documentation

CORRECTIVE ACTION REPORT

Jicarilla C #27E Meter Run Valve Release
NE 1/4, S33 T25N R5W
Rio Arriba County, New Mexico
Apex Project No. 7030414G007

1.0 INTRODUCTION

1.1 Site Description & Background

The Jicarilla C #27E meter run valve release site is located within the Enterprise Products Operating LLC (Enterprise) pipeline right-of-way (ROW) in the northeast (NE) ¼ of Section 33 in Township 25 North, Range 5 West in rural Rio Arriba County, New Mexico, referred to hereinafter as the "Site" or "subject Site". The Site is located at the edge of a well pad, surrounded by native vegetation rangeland periodically interrupted with oil and gas gathering facilities, including one (1) Enterprise natural gas gathering pipeline meter run, aligned east to west.

On February 27th, 2014, Enterprise initiated excavation activities at the Site to remove hydrocarbon affected soils which resulted from a partially open valve on the meter run. An unknown quantity of condensate/water mixture was potentially released from the valve, which sprayed onto the adjacent soils. Soils at the Site were frozen at the time of the release, and vertical migration of constituents of concern (COCs) was limited.

A topographic map depicting the location of the Site is included as Figure 1, and a Site Vicinity Map is included as Figure 2 in Appendix A.

1.2 Project Objective

The primary objective of the corrective actions was to reduce the concentration of COCs in the on-Site soils to below the New Mexico Energy, Minerals, and Natural Resources Department (EMNRD), Oil Conservation Division (OCD) *Remediation Action Levels* using the New Mexico EMNRD OCD's *Guidelines for Remediation of Leaks, Spills and Releases* as guidance.

2.0 SITE RANKING

The Site is under the jurisdiction of the Jicarilla Apache Nation Environmental Protection Office (JANEPO). In the absence of published JANEPO regulatory guidance, Apex referenced the New Mexico ENMRD OCD's *Guidelines for Remediation of Leaks, Spills and Releases*. Apex utilized the general site characteristics obtained during the completion of corrective action activities to determine the appropriate "ranking" for the Site. The ranking criteria and associated scoring are provided in the following table:

Ranking Criteria			Ranking Score
Depth to Groundwater	<50 feet	20	10*
	50 to 99 feet	10	
	>100 feet	0	
Wellhead Protection Area • <1,000 feet from a water source, or; <200 feet from private domestic water source.	Yes	20	0
	No	0	
Distance to Surface Water Body	<200 feet	20	10
	200 to 1,000 feet	10	
	>1,000 feet	0	
Total Ranking Score			20

*Based on anticipated groundwater depth of >50 feet below grade surface (bgs).

Based on Apex's evaluation of the scoring criteria, the Site would have a maximum Total Ranking Score of "20". This ranking is based on the following:

- The Site is approximately 400 feet north of the head of an un-named ephemeral wash which drains to the Cañada Larga approximately 3.5 miles southwest of the Site. This wash is barely discernible at this location and appears to only convey water during significant rain events, but might be considered a surface water body by some entities.
- No water wells were identified on the Office of the State Engineer website database within one mile of the Site. However, a livestock well was identified approximately 2,200 feet west of the Site. The depth to water at this well is unknown.
- The nearest surface water is a livestock tank located approximately 1,450 feet northeast of the Site.

3.0 RESPONSE ACTIONS

3.1 Soil Excavation Activities

On February 27th, 2014, Enterprise initiated excavation activities at the Site to remove hydrocarbon affected soils which resulted from a partially open valve on the meter run. An unknown quantity of condensate/water mixture was potentially released from the valve, which sprayed onto the adjacent soils. Soils at the Site were frozen at the time of the release, and vertical migration of COCs was limited. During the corrective action activities, Industrial Mechanical, Inc. (IMI) provided heavy equipment and labor support, and Kyle Summers, an Apex environmental professional, provided environmental support.

Soil staining was visible at the Site near the point of release. Affected soils were excavated utilizing backhoe and hand tools and loaded into a tandem-axle dump truck for transportation to the disposal/treatment facility.

The lithology encountered during the completion of corrective action activities consisted primarily of unconsolidated silty-sands.

The total depth of the final excavation ranged from 0.5 feet bgs to approximately 2 feet bgs in the release footprint. The surface expression of the release and subsequent excavation measured approximately 18 feet long east to west, with a maximum north to south width of approximately 13 feet near the eastern limit.

A total of approximately 12 cubic yards of hydrocarbon affected soils were transported to the TNT landfarm near Lindrieth, NM for disposal/remediation. The executed C-138 form is provided in Appendix B. The excavation was backfilled with clean imported fill from a Jicarilla-approved stockpile and contoured to surrounding grade.

During excavation activities, air in the breathing zone was monitored to ensure that the Occupational Safety and Health Administration (OSHA) Permissible Exposure Limit (PEL) of 200 parts per million (ppm) Time Weighted Average (TWA) for an 8-hour work day was not exceeded. Additionally, Enterprise monitored the excavation for explosive atmosphere conditions and oxygen deficiency prior to any entries into the excavation.

Figure 3 is a site map that indicates the approximate location of the excavated area in relation to pertinent land features (Appendix A). Photographic documentation of the field activities is included in Appendix C.

3.2 Soil Sampling Program

Apex screened head-space samples of Site soils with a photoionization detector (PID) fitted with a 10.6 eV lamp to aid in determining the excavation limits.

Apex's soil sampling program included the collection of one (1) composite confirmation sample (C-1) from the resulting excavation for laboratory analysis. The sample consisted of six (6) discrete aliquots. Figure 3 depicts the approximate location of the excavated areas and shows the final confirmation sample aliquot locations in relation to the final excavation dimensions (Appendix A).

The confirmation soil sample was collected and placed in laboratory prepared glassware, labeled/sealed using the laboratory supplied labels, and placed on ice in a cooler, which was secured with a custody seal. The sample cooler and completed chain-of-custody form were relinquished to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico for 24-hr rush analysis.

3.3 LABORATORY ANALYTICAL METHODS

The confirmation soil sample was analyzed for benzene, toluene, ethylbenzene and xylenes (BTEX) using EPA SW-846 Method #8021, and total petroleum hydrocarbons (TPH) gasoline range organics (GRO) and diesel range organics (DRO) using EPA SW-846 Method #8015.

Laboratory results are summarized in Table 1, included in Appendix D. The executed chain-of-custody form and laboratory data sheets are provided in Appendix E.

4.0 DATA EVALUATION

The Site is under the jurisdiction of the JANEPO. In the absence of published JANEPO regulatory guidance, Apex referenced New Mexico OCD *Guideline for Remediation of Leaks, Spills, and Releases* as guidance, in addition to the OCD rules, specifically NMAC 19.15.30 *Remediation*. These guidance documents establish investigation and abatement action requirements for sites subject to reporting and/or corrective action.

4.1 Confirmation Soil Samples

Apex compared the BTEX and TPH concentrations or reporting limits (RLs) associated with the final confirmation sample collected from the excavated area to the OCD *Remediation Action Levels* for sites having a total ranking score of "20".

- The laboratory analysis of the confirmation sample collected from soils remaining in place does not indicate benzene concentrations above laboratory RLs, which are below the OCD *Remediation Action Level*.
- The laboratory analysis of the confirmation sample collected from soils remaining in place does not indicate total BTEX concentrations above laboratory RLs, which are below the OCD *Remediation Action Level*.
- The laboratory analyses of the confirmation sample collected from soils remaining in place do not indicate TPH GRO/DRO concentrations above laboratory RLs, which are below the OCD *Remediation Action Level*.

Confirmation sample results are provided in Table 1 in Appendix D.

5.0 FINDINGS AND RECOMMENDATIONS

The Jicarilla C #27E meter run valve release site is located within the Enterprise ROW in the NE $\frac{1}{4}$ of Section 33 in Township 25 North and Range 5 West in rural Rio Arriba County, New Mexico. The Site is located at the edge of a well pad, surrounded by native vegetation rangeland periodically interrupted with oil and gas gathering facilities, including one (1) Enterprise natural gas gathering pipeline meter run, aligned east to west.

On February 27th, 2014, Enterprise initiated excavation activities at the Site to remove hydrocarbon affected soils which resulted from a partially open valve on the meter run. An unknown quantity of condensate/water mixture was potentially released from the valve, which sprayed onto the adjacent soils. Soils at the Site were frozen at the time of the release, and vertical migration of COCs was limited. Soil staining was visible at the Site near the point of release.

- The primary objective of the corrective actions was to reduce the concentration of COCs in the on-Site soils to below the New Mexico EMNRD OCD *Remediation Action Levels* using the New Mexico EMNRD OCD's *Guidelines for Remediation of Leaks, Spills and Releases* as guidance.
- The total depth of the final excavation ranged from approximately 0.5 feet bgs to approximately 2 feet bgs in the release footprint. The maximum surface expression of the excavation measured approximately 18 feet long by 13 feet wide.
- Prior to backfilling, one (1) final confirmation sample was collected from the resulting excavation for laboratory analyses. Based on analytical results, soils remaining in place do not exhibit COC concentrations above laboratory RLs, which are below the OCD *Remediation Action Levels* for a Site ranking of "20".
- A total of approximately 12 cubic yards of hydrocarbon affected soils were transported to the TNT landfarm near Lindrith, NM for disposal/remediation. The excavation was

backfilled with clean imported fill from a Jicarilla-approved stockpile or pond and contoured to the surrounding grade.

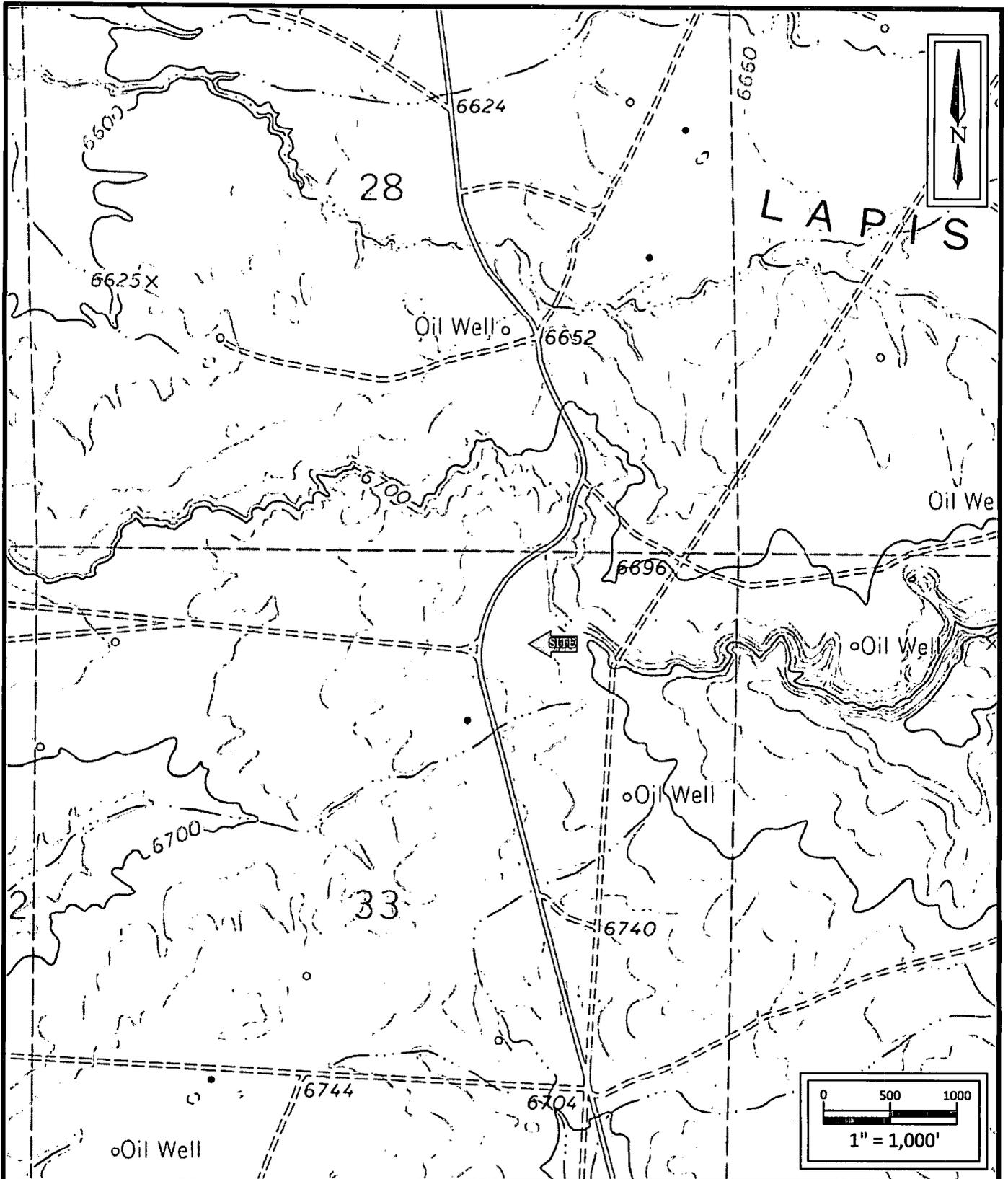
Based on the laboratory analytical, no additional investigation or corrective action appears warranted at this time.

6.0 STANDARD OF CARE, LIMITATIONS, AND RELIANCE

Apex TITAN's (Apex's) services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Apex makes no warranties, expressed or implied, as to the services performed hereunder. Additionally, Apex does not warrant the work of third parties supplying information used in the report (e.g. laboratories, regulatory agencies, or other third parties). This scope of services was performed in accordance with the scope of work agreed with the client.

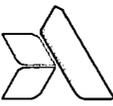
Findings, conclusions and recommendations resulting from these services are based upon information derived from the on-Site activities and other services performed under this scope of work and it should be noted that this information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and Apex cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this scope of services. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Apex's findings and recommendations are based solely upon data available to Apex at the time of these services.

This report has been prepared for the exclusive use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the expressed written authorization of Enterprise and Apex. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the proposal, the report, and Apex's Agreement. The limitation of liability defined in the agreement is the aggregate limit of Apex's liability to the client.



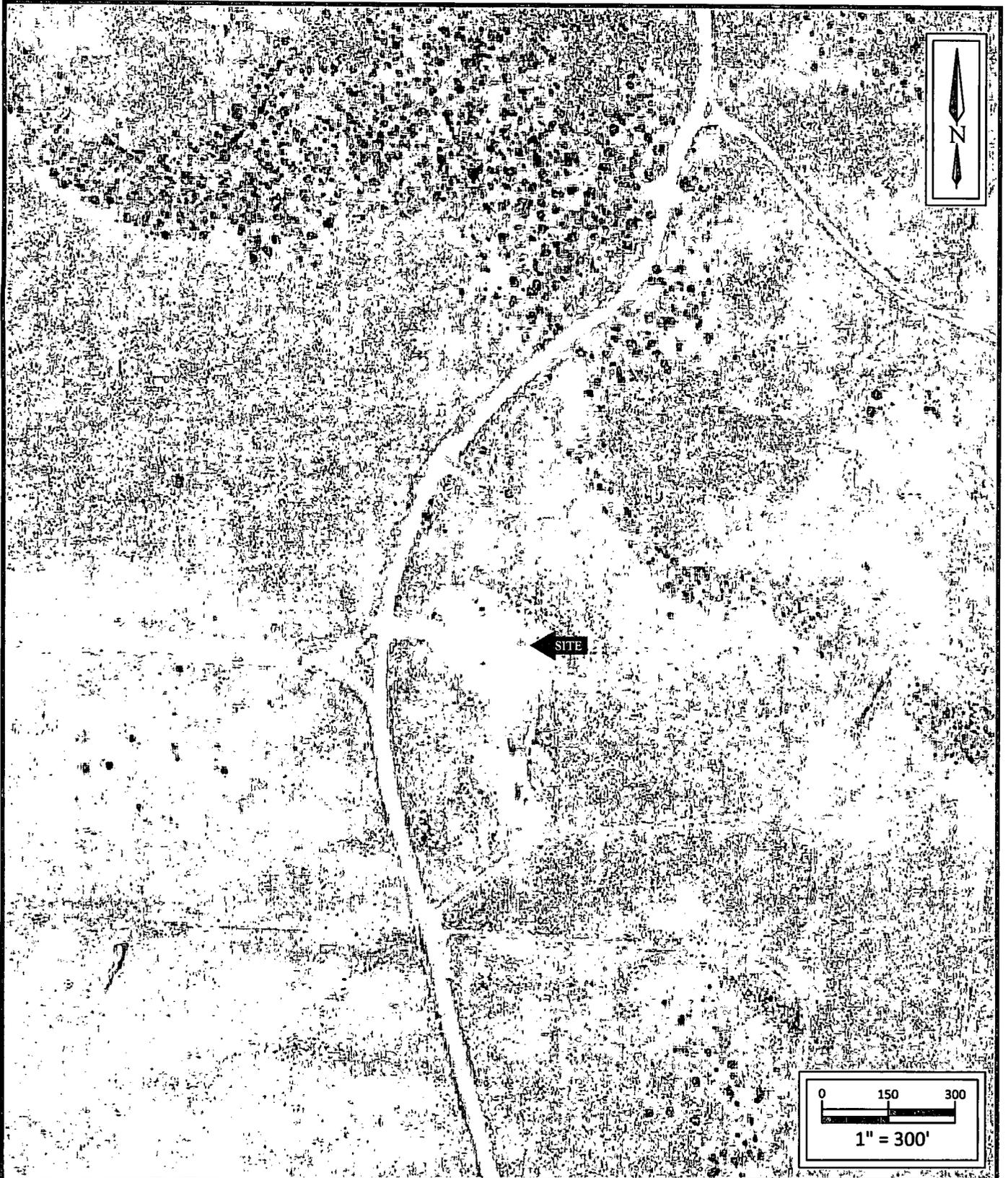
**Jicarilla C #27E Meter Run
 Valve Release**
 NE $\frac{1}{4}$ S33 T25N R5W
 Rural Rio Arriba County, NM
 36.361853N, -107.361710W

 Project No. 7030414G007



Apex TITAN, Inc.
 606 S. Rio Grande, Suite A
 Aztec, New Mexico 87410
 Phone: (505) 334-5200
www.apexcos.com
 A Subsidiary of Apex Companies, LLC

FIGURE 1
Topographic Map
 Otero Store, NM Quadrangle
 1963



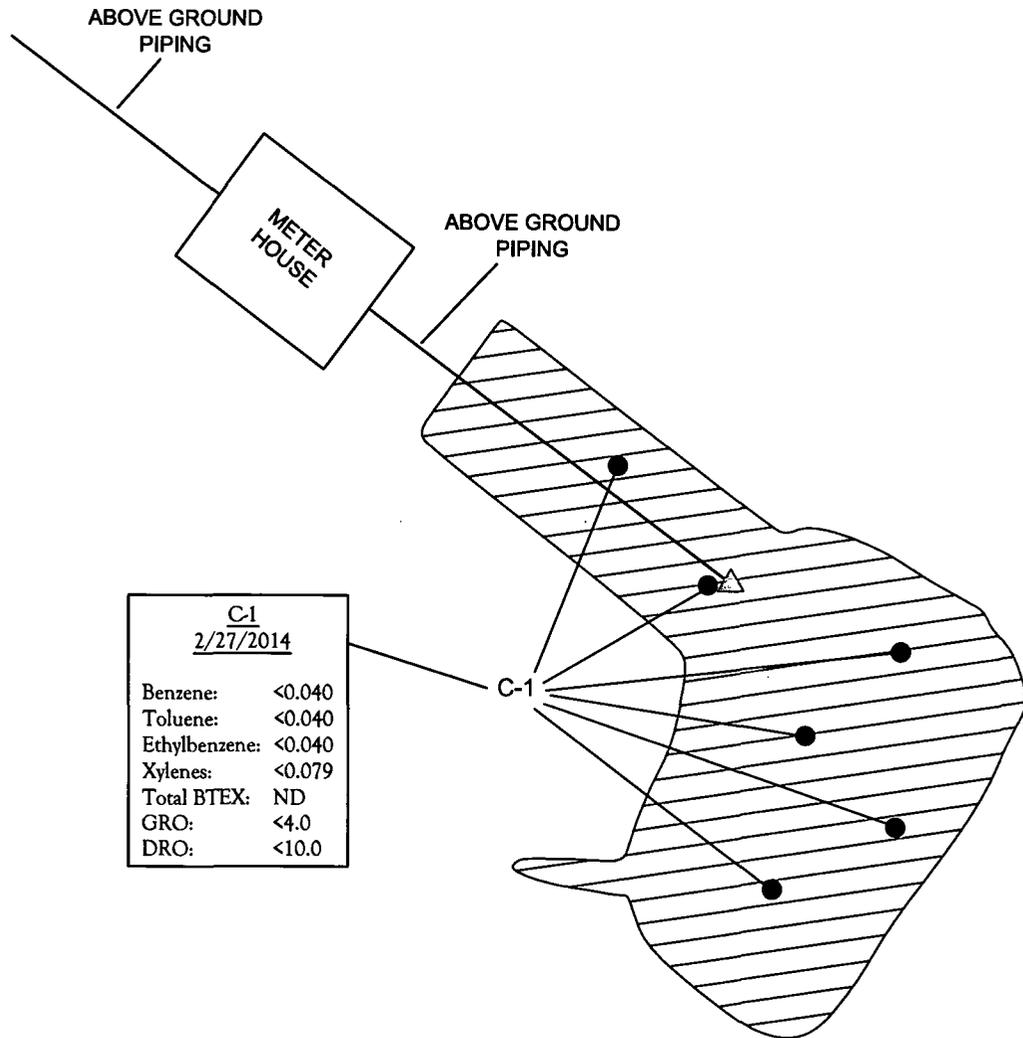
**Jicarilla C #27E Meter Run
 Valve Release**
 NE 1/4 S33 T25N R5W
 Rural Rio Arriba County, NM
 36.361853N, -107.361710W

 Project No. 7030414G007

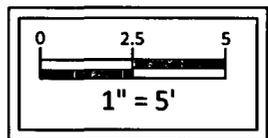


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FIGURE 2
Site Vicinity Map
 2013 Aerial Photograph

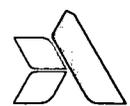


LEGEND:	
●	SAMPLE LOCATION
▲	RELEASE POINT
▨	EXTENT OF EXCAVATION



**Jicarilla C #27E Meter Run
Valve Release**
NE¼ S33 T25N R5W
Rural Rio Arriba County, NM
36.361853N, -107.361710W

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FIGURE 3
Site Map with
Sample Locations

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-138
Revised 08/01/11

*Surface Waste Management Facility Operator
and Generator shall maintain and make this
documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. **Generator Name and Address:**
Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401 Paykey Code: GG11580

2. **Originating Site:**
Jicarilla C #27E Well Site

3. **Location of Material (Street Address, City, State or ULSTR):**
Unit B, Section 33, T 25N, R 05W, Rio Arriba County, NM; 36.361794, -107.362034

4. **Source and Description of Waste:**
Source: Natural Gas Liquids (oil and condensate) for Dryer Valve Release on an meter run
Description: Exempt petroleum affected soil from clean-up efforts at well site
Estimated Volume 5 yd³ / bbls Known Volume (to be entered by the operator at the end of the haul) 12 12 yd³ / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Thomas Long, Thomas Long, representative or authorized agent for Enterprise Field Services, LLC do hereby
Generator Signature
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988
regulatory determination, the above described waste is: (Check the appropriate classification)

RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. **Operator Use Only: Waste Acceptance Frequency** Monthly Weekly Per Load

RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

MSDS Information RCRA Hazardous Waste Analysis Process Knowledge Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Thomas Long, 2-25-14, representative for Enterprise Field Services, LLC authorize T-N-T to complete
Generator Signature
the required testing/sign the Generator Waste Testing Certification.

I, Craig Schmitz, representative for T-N-T do hereby certify that
Representative/Agent Signature

representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. **Transporter: IMI, WestStates or unknown trucking company on OCD approved haulers list.**

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: TNT Evap Pond/Landfarm, NM01-0008
Address of Facility: 70 CR 405, Lindrith NM

Method of Treatment and/or Disposal:

Evaporation Injection Treating Plant Landfarm Landfill Other

Waste Acceptance Status:

APPROVED

DENIED (Must Be Maintained As Permanent Record)

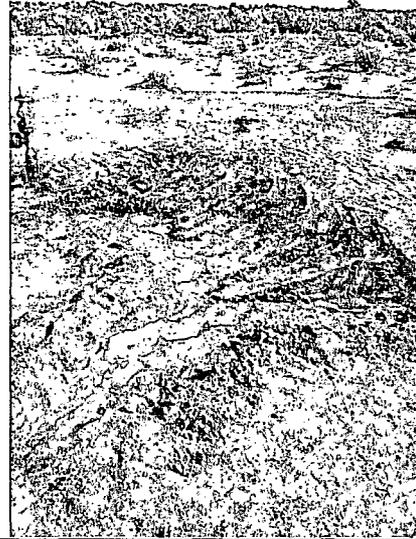
PRINT NAME: Craig Schmitz
SIGNATURE: [Signature]
Surface Waste Management Facility Authorized Agent

TITLE: Pres.
TELEPHONE NO. 505-320-2737

DATE: 2-27-14

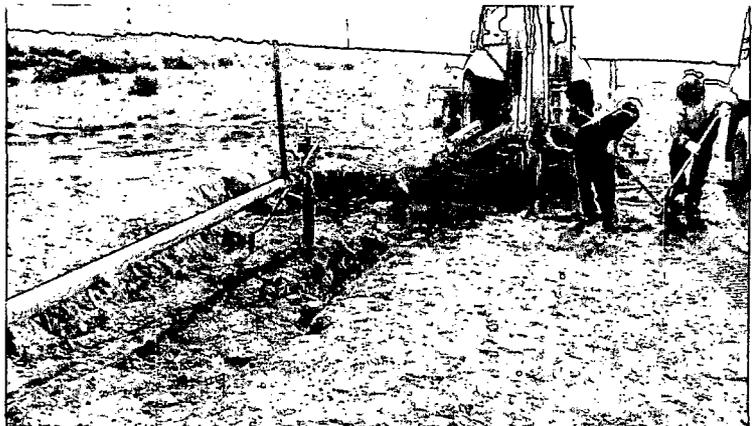
Photograph 1

Release area prior to excavation facing northeast.



Photograph 2

General view of excavation area facing east.



Photograph 3

General view of excavation area facing south.





TABLE 1
Jicarilla C #27E
SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)
New Mexico Energy, Mineral & Natural Resources Department, Oil Conservation Division, Remediation Action Level			10	NE	NE	NE	50	100	
Final Confirmation Sample									
C-1	2/27/2014	0.5-2.0	<0.040	<0.040	<0.040	<0.079	ND	<4.0	<10.0

Note: Concentrations in bold and yellow exceed the applicable OCD Remediation Action Level
 NE = Not Established



*Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com*

March 03, 2014

Kyle Summers

Southwest Geoscience
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (903) 821-5603
FAX (214) 350-2914

RE: Jicarilla C 27 E

OrderNo.: 1402B15

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 1 sample(s) on 2/28/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience **Client Sample ID:** C-1
Project: Jicarilla C 27 E **Collection Date:** 2/27/2014 11:00:00 AM
Lab ID: 1402B15-001 **Matrix:** MEOH (SOIL) **Received Date:** 2/28/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/28/2014 1:50:16 PM	11948
Surr: DNOP	104	66-131		%REC	1	2/28/2014 1:50:16 PM	11948
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JMP
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	2/28/2014 2:16:31 PM	R17027
Surr: BFB	83.5	74.5-129		%REC	1	2/28/2014 2:16:31 PM	R17027
EPA METHOD 8021B: VOLATILES							Analyst: JMP
Benzene	ND	0.040		mg/Kg	1	2/28/2014 2:16:31 PM	R17027
Toluene	ND	0.040		mg/Kg	1	2/28/2014 2:16:31 PM	R17027
Ethylbenzene	ND	0.040		mg/Kg	1	2/28/2014 2:16:31 PM	R17027
Xylenes, Total	ND	0.079		mg/Kg	1	2/28/2014 2:16:31 PM	R17027
Surr: 4-Bromofluorobenzene	95.5	80-120		%REC	1	2/28/2014 2:16:31 PM	R17027

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1402B15

03-Mar-14

Client: Southwest Geoscience
Project: Jicarilla C 27 E

Sample ID MB-11934	SampType: MBLK		TestCode: EPA Method 8015D: Diesel Range Organics							
Client ID: PBS	Batch ID: 11934		RunNo: 17024							
Prep Date: 2/27/2014	Analysis Date: 2/28/2014		SeqNo: 489838		Units: %REC					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.1		10.00		91.1	66	131			

Sample ID LCS-11934	SampType: LCS		TestCode: EPA Method 8015D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 11934		RunNo: 17024							
Prep Date: 2/27/2014	Analysis Date: 2/28/2014		SeqNo: 489866		Units: %REC					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.4		5.000		107	66	131			

Sample ID MB-11948	SampType: MBLK		TestCode: EPA Method 8015D: Diesel Range Organics							
Client ID: PBS	Batch ID: 11948		RunNo: 17024							
Prep Date: 2/28/2014	Analysis Date: 2/28/2014		SeqNo: 489867		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	9.5		10.00		94.7	66	131			

Sample ID LCS-11948	SampType: LCS		TestCode: EPA Method 8015D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 11948		RunNo: 17024							
Prep Date: 2/28/2014	Analysis Date: 2/28/2014		SeqNo: 489868		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	56	10	50.00	0	112	60.8	145			
Surr: DNOP	5.1		5.000		102	66	131			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1402B15

03-Mar-14

Client: Southwest Geoscience

Project: Jicarilla C 27 E

Sample ID	MB-11937 MK	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	R17027	RunNo:	17027					
Prep Date:	2/27/2014	Analysis Date:	2/28/2014	SeqNo:	490048	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	800		1000		80.1	74.5	129			

Sample ID	LCS-11937 MK	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	R17027	RunNo:	17027					
Prep Date:	2/27/2014	Analysis Date:	2/28/2014	SeqNo:	490049	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	102	71.7	134			
Surr: BFB	890		1000		89.5	74.5	129			

Sample ID	MB-11937	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	11937	RunNo:	17027					
Prep Date:	2/27/2014	Analysis Date:	2/28/2014	SeqNo:	490053	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	800		1000		80.1	74.5	129			

Sample ID	LCS-11937	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	11937	RunNo:	17027					
Prep Date:	2/27/2014	Analysis Date:	2/28/2014	SeqNo:	490054	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	890		1000		89.5	74.5	129			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1402B15

03-Mar-14

Client: Southwest Geoscience

Project: Jicarilla C 27 E

Sample ID	MB-11937 MK	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	R17027	RunNo:	17027					
Prep Date:		Analysis Date:	2/28/2014	SeqNo:	490069	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.92		1.000		92.3	80	120			

Sample ID	LCS-11937 MK	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	R17027	RunNo:	17027					
Prep Date:		Analysis Date:	2/28/2014	SeqNo:	490070	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	114	80	120			
Toluene	1.1	0.050	1.000	0	114	80	120			
Ethylbenzene	1.2	0.050	1.000	0	117	80	120			
Xylenes, Total	3.5	0.10	3.000	0	117	80	120			
Surr: 4-Bromofluorobenzene	0.96		1.000		95.7	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Sample Log-In Check List

Client Name: Southwest Geoscience

Work Order Number: 1402B15

RcptNo: 1

Received by/date: MS 02/28/14

Logged By: Lindsay Mangin 2/28/2014 10:00:00 AM *Jessy Mangin*

Completed By: Lindsay Mangin 2/28/2014 10:17:29 AM *Jessy Mangin*

Reviewed By: IO 02/28/2014

Chain of Custody

- 1. Custody seals intact on sample bottles? Yes No Not Present
- 2. Is Chain of Custody complete? Yes No Not Present
- 3. How was the sample delivered? Courier

Log In

- 4. Was an attempt made to cool the samples? Yes No NA
- 5. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- 6. Sample(s) in proper container(s)? Yes No
- 7. Sufficient sample volume for indicated test(s)? Yes No
- 8. Are samples (except VOA and ONG) properly preserved? Yes No
- 9. Was preservative added to bottles? Yes No NA
- 10. VOA vials have zero headspace? Yes No No VOA Vials
- 11. Were any sample containers received broken? Yes No
- 12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes No
- 13. Are matrices correctly identified on Chain of Custody? Yes No
- 14. Is it clear what analyses were requested? Yes No
- 15. Were all holding times able to be met? (If no, notify customer for authorization.) Yes No

of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)
 Adjusted? _____
 Checked by: _____

Special Handling (if applicable)

- 16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No.	Temp °C	Condition	Seal Intact	Seal No.	Seal Date	Signed By
1	1.0	Good	Yes			

CHAIN OF CUSTODY RECORD

<h1 style="margin: 0;">Southwest</h1> <h2 style="margin: 0;">GEOSCIENCE</h2> <p style="margin: 0; font-size: small;">Environmental & Hydrogeologic Consultants</p>		Laboratory: <u>HALL ABQ</u>		ANALYSIS REQUESTED <div style="font-size: x-large; transform: rotate(-45deg); opacity: 0.5;"> AS BTEX 8021 TPH 8015 DROKRO </div>										Lab use only				
		Address: _____												Due Date: _____				
Office Location <u>ALTEL, NM</u>		Contact: <u>FREEMAN</u>		Temp. of coolers when received (C°): <u>1.0</u>					1 2 3 4 5 Page <u>1</u> of <u>1</u>									
Project Manager <u>KYLE SUMMERS</u>		Phone: _____																
Sampler's Name <u>KYLE SUMMERS</u>		Sampler's Signature <u>[Signature]</u>		PO/ISO #: <u>0414G 007</u>		Lab Sample ID (Lab Use Only) <u>1402B15-001</u>												
Proj. No. <u>0414G007</u>		Project Name <u>JICARILLA C 27E</u>		No/Type of Containers <u>1/4 02</u>														
Matrix	Date	Time	Comp	Gr	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1Ll	250 ml	P/O	Lab Sample ID (Lab Use Only) <u>1402B15-001</u>						
<u>S</u>	<u>2-27-14</u>	<u>1100</u>	<u>X</u>		<u>C-1</u>						<u>1</u>						<u>XX</u>	
<div style="font-size: 2em; opacity: 0.5; transform: rotate(-45deg);"> NES AB </div>																		
Turn around time <input type="checkbox"/> Normal <input type="checkbox"/> 25% Rush <input type="checkbox"/> 50% Rush <input checked="" type="checkbox"/> 100% Rush																		
Relinquished by (Signature) <u>[Signature]</u>			Date: <u>2/23/14</u> Time: <u>1527</u>			Received by (Signature) <u>[Signature]</u>			Date: <u>2/27/14</u> Time: <u>1527</u>			NOTES:						
Relinquished by (Signature) <u>[Signature]</u>			Date: <u>2/27/14</u> Time: <u>1725</u>			Received by (Signature) <u>[Signature]</u>			Date: <u>02/28/14</u> Time: <u>1000</u>									
Relinquished by (Signature) _____			Date: _____ Time: _____			Received by (Signature) _____			Date: _____ Time: _____									
Relinquished by (Signature) _____			Date: _____ Time: _____			Received by (Signature) _____			Date: _____ Time: _____									

Matrix Container WW - Wastewater W - Water S - Soil SD - Solid L - Liquid A - Air Bag C - Charcoal tube SL - sludge O - Oil
 VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other

eb