

3R-1012

**Release Report/ General
Correspondence**

Enterprise RA

Date: Jan-Mar 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

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: Lateral K-39 Gathering Line	Facility Type: Natural Gas Gathering Line	
Surface Owner: BLM	Mineral Owner: BLM	API No.

LOCATION OF RELEASE

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

Latitude 36.40413 Longitude -107.52189

NATURE OF RELEASE

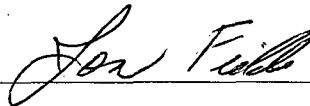
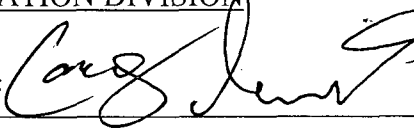
Type of Release: Natural Gas and Natural Gas Liquids	Volume of Release: To Be Determined	Volume Recovered: Unknown
Source of Release: Internal Corrosion	Date and Hour of Occurrence: 2/8/2014 @ 2:00 p.m.	Date and Hour of Discovery: 2/8/2014 @ 2:00 p.m.
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour RCVD FEB 24 '14	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. OIL CONS. DIV. 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 of approximately 6 feet by 4 feet was impacted by a condensate/water mix.

Describe Area Affected and Cleanup Action Taken.* An area of approximately 6 feet by 4 feet was impacted by a condensate/water mix. Repair and Remediation activities began on February 14, 2014 and will continue during the week of February 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>4/28/14</u>	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <u>2-19-14</u> Phone: (713)381-6684		

* Attach Additional Sheets If Necessary

#NCS 1411841635

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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 27-5 #133	Facility Type: Well Site Meter Run/Meter Tube	
Surface Owner: Private	Mineral Owner: BLM	API No.

LOCATION OF RELEASE

Unit Letter M	Section 19	Township 27N	Range 5W	Feet from the	North/South Line	Feet from the	East/West Line	County Rio Arriba
-------------------------	----------------------	------------------------	--------------------	---------------	------------------	---------------	----------------	-----------------------------

Latitude 36.556226 Longitude -107.405558

NATURE OF RELEASE

Type of Release: Natural gas and condensate liquids	Volume of Release: 448 MCF	Volume Recovered: None
Source of Release: Natural gas meter tube/meter run	Date and Hour of Occurrence: 12/17/2013 @ 1:10 a.m	Date and Hour of Discovery: 12/17/2013 @ 1:10 a.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 and Jonathan Kelly NMOCD	
By Whom? Thomas Long	Date and Hour 12/19/2013 3:27 p.m.	RCVD FEB 18 '14
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. OIL CONS. DIV. DIST. 3	

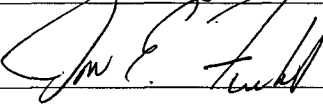
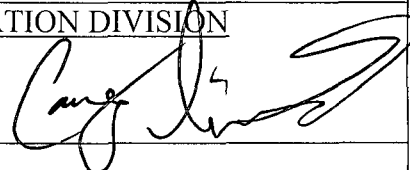
If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* A technician discovered a meter run leak on the San Juan 27-5 #133. The leak was due to a water freeze in the meter run. Technician closed the upstream and downstream valves and blew the meter run down, also blew down the well-tie line and LOTO was applied.

Describe Area Affected and Cleanup Action Taken.*

Initial investigation of the release indicated an area of approximately 2800 square feet was impacted from mist associated with the release. During repair and remediation activities the impacted area was determined to be minimal. 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.

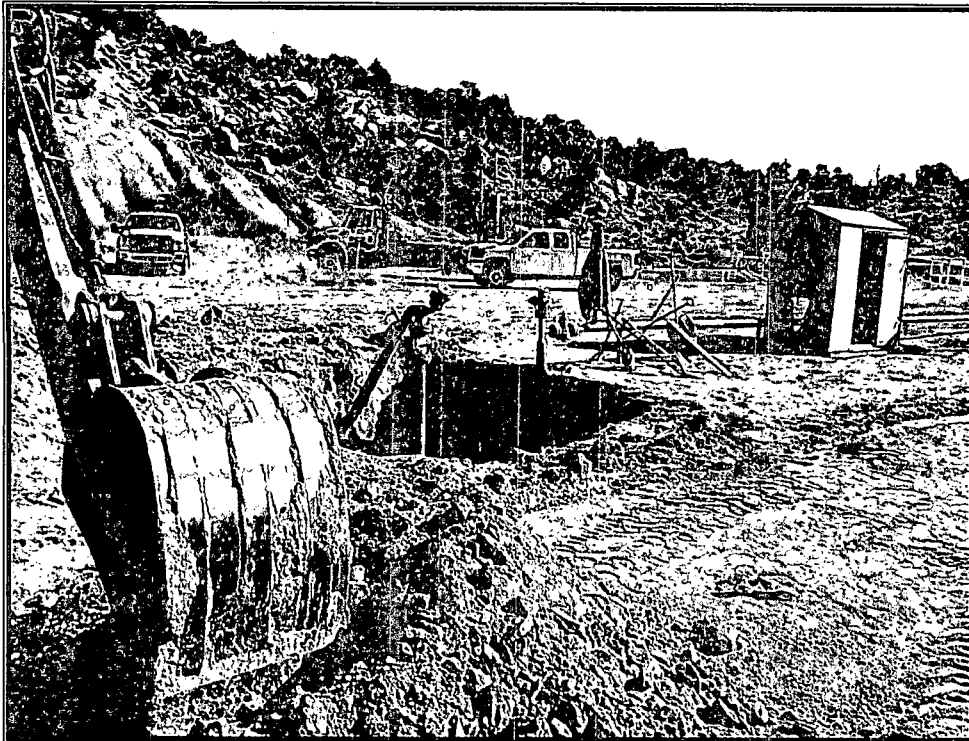
Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Jon E. Fields	Approved by Environmental Specialist: 	
Title: Sr. Environmental - Director	Approval Date: <u>4/28/14</u>	Expiration Date:
E-mail Address: jeffields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <u>2-14-14</u> Phone: (713)381-6684		

* Attach Additional Sheets If Necessary

Incident # NCS 1411850131

Enterprise Products
SJ 27-5 # 133 Meter Run Release
Latitude North 36.556226°, Longitude West -107.405558°
Unit M (SW ¼, SW ¼) Section 19 T27N R5W
Rio Arriba County, New Mexico
February 3, 2014

RCVD FEB 18 '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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1.0 Executive Summary

On December 19, 2013 and January 7, 2014, Souder, Miller & Associates (SMA) responded to a hydrocarbon release associated with the SJ 27-5 #133 meter run release. The table below summarizes information about the release and remediation activities.

TABLE 1: RELEASE INFORMATION					
Name	SJ 27-5 #133 Meter Run Release				
Location	Latitude/Longitude		Section, Township, Range		
	36.556226°	-107.405558°	Unit M (SW ¼ , SW ¼)	Section 19	T 27N, R 5W
Date Reported	December 18, 2013				
	Thomas Long				
Land Owner	Private				
Reported To	BLM, NM Oil Conservation Division (NMOCD)				
Diameter of Pipeline	2 inches				
Source of Release	Freezing				
Release Contents	Natural Gas/Condensate				
Release Volume: Natural Gas	448 MCF				
Release Volume: Condensate	Unknown				
Nearest Waterway	Cereza Canyon Wash				
Depth to Groundwater	Assumed to be less than 50 feet				
Nearest Domestic Water Source	Greater than 1,000 feet				
NMOCD Ranking	30				
SMA Response Dates	12/19/2013, and 1/7/2014				
Subcontractors	Industrial Mechanical Inc. (IMI)				
Disposal Facility	N/A				
Yd ³ Contaminated Soil Excavated and Disposed	N/A				

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 SJ 27-5 #133 Meter Run release. The SJ 27-5 #133 meter run release was caused by the run cracking due to freezing, which resulted in a loss of 448 thousand cubic feet (MCF) of natural gas and an unknown amount of condensate. The release was reported on December 18, 2013. The meter run is located in Unit M (SW ¼, SW ¼), Section 19, Township 27 North, Range 5 West, 36.556226°, -107.405558°, 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 immediately east of Cereza Canyon Wash on privately owned land with an elevation of approximately 6,362 feet above sea level. After evaluation of the site using aerial photography and topographic maps, depth to groundwater is estimated to be less than 50 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 wells are located within 1,000 feet of the site. However, four Points of Diversion are located within a 1 mile radius of the site.

The physical location of this release is within the jurisdiction of the NMOCD. This release location has been assigned a NMOCD ranking of 30, which requires a soil remediation standard of 10 parts per million (ppm) benzene, 50 ppm combined benzene, toluene, ethyl-benzene, and total xylenes (BTEX), and 100 ppm total petroleum hydrocarbons (TPH). Table 2 illustrates site ranking rationale.

4.0 Summary of Field Activities

On December 19, 2013, SMA conducted an initial site assessment, in an attempt to define the extent of the surface release. On January 7, 2014, Industrial Mechanical Inc. personnel replaced the cracked meter run, while SMA mobilized to the release site to oversee activities and to further delineate the release area through field screening using a calibrated photoionization detector (PID). The area was scraped to a depth of 2 inches with a backhoe and the soil was stockpiled. SMA field screened the stockpiled soil and recommended that the soil remain onsite. Table 3 summarizes the field screening results. Field notes are included in Appendix A.

All laboratory soil samples were field screened with a calibrated PID and 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 scraped area and laboratory samples locations with laboratory report 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 30: 10 ppm benzene, 50 ppm total BTEX, and 100 ppm TPH. Laboratory analysis detected concentrations of DRO in samples SC-1 (11ppm) and SC-3 (17ppm). However, these concentrations are below the NMOCD Guidelines for total TPH. All other laboratory analysis detected benzene, total BTEX, and TPH (GRO/DRO) at concentrations below the NMOCD Guidelines. A summary of laboratory analysis is included in Table 4. Laboratory reports are 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, verification of release 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

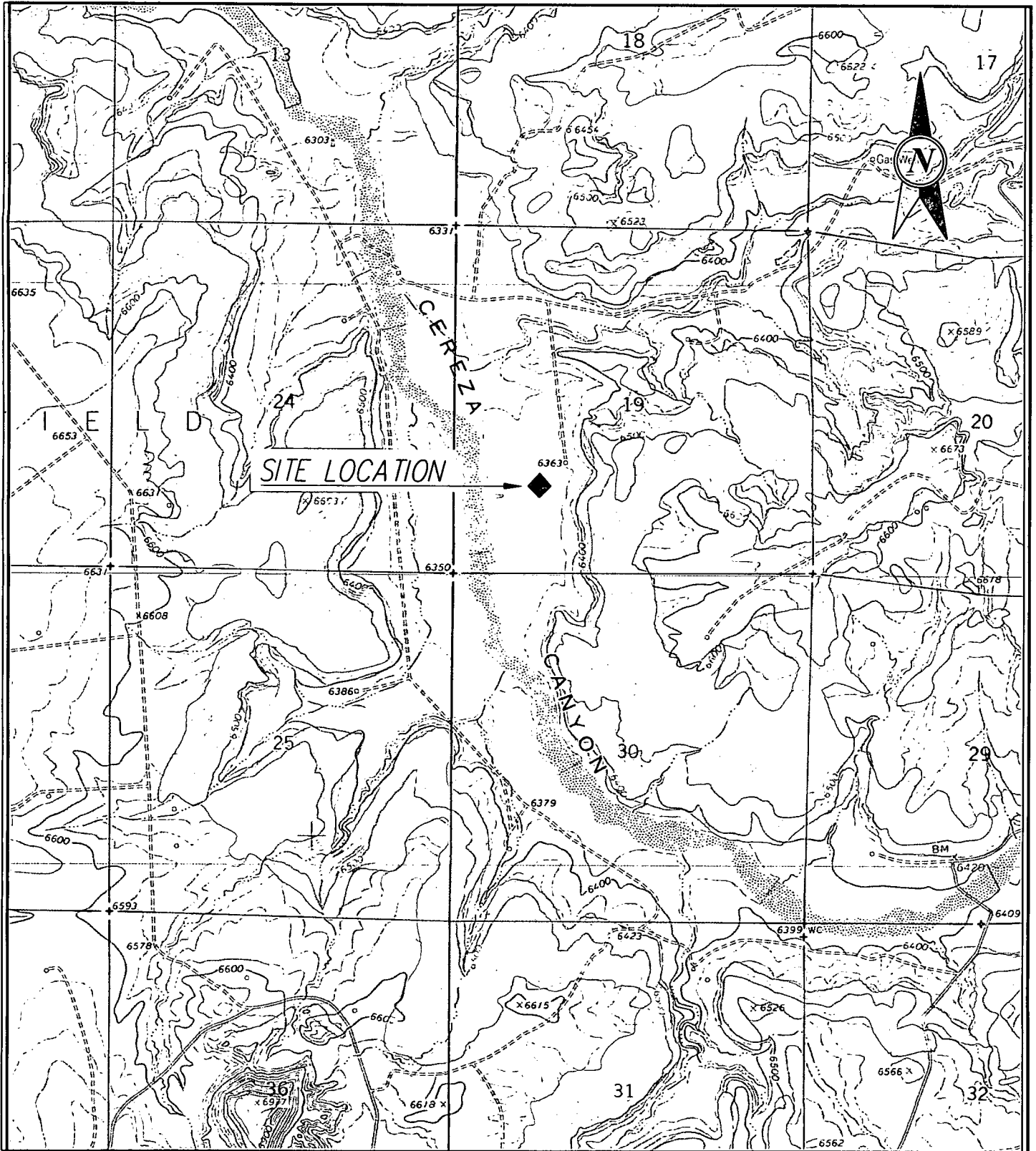


Steve Moskal
Project Scientist



Reid S. Allan, PG
Principal Scientist

FIGURES



SOUDER, 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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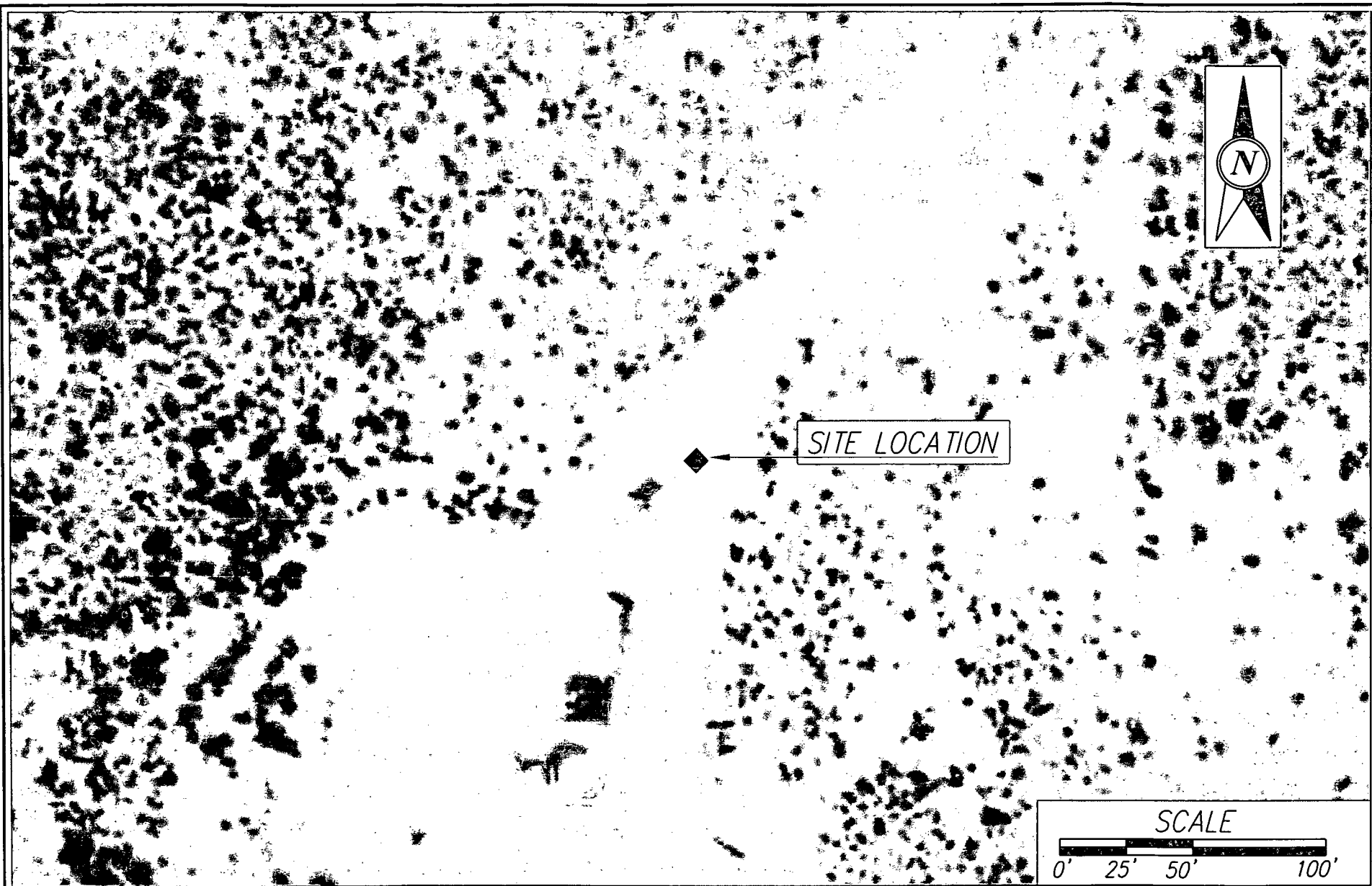
FARMINGTON, NEW MEXICO

VICINITY MAP
SJ 27-5 #133

SECTION 19, T27N, R5W

RIO ARriba COUNTY, NEW MEXICO

Designed SM	Drawn DJB	Checked RSA
Date:	1/7/2014	
Scale:	Horiz: 1"=2000'	Vert: N/A
Project No:	5122104	
Sheet:	1	



 SMA <i>Engineering Environmental Surveying</i>	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 Cortez • Grand Junction • Montrose, CO • Salt Lake City, UT • Moab, UT	ENTERPRISE RIO ARriba COUNTY, NEW MEXICO	FARMINGTON, NEW MEXICO SITE LOCATION MAP SJ 27-5 #133 SECTION 19, T27N, R5W	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Designed SM</td> <td style="width: 25%;">Drawn GJF</td> <td style="width: 25%;">Checked RSA</td> </tr> <tr> <td colspan="3">Date: 1/7/2014</td> </tr> <tr> <td colspan="3">Scale: Horiz: 1"=50' Vert: N/A</td> </tr> <tr> <td colspan="3">Project No: 5122104</td> </tr> <tr> <td colspan="3">Sheet: 2</td> </tr> </table>	Designed SM	Drawn GJF	Checked RSA	Date: 1/7/2014			Scale: Horiz: 1"=50' Vert: N/A			Project No: 5122104			Sheet: 2		
	Designed SM	Drawn GJF	Checked RSA																
	Date: 1/7/2014																		
	Scale: Horiz: 1"=50' Vert: N/A																		
	Project No: 5122104																		
Sheet: 2																			



BENZENE=<0.049
BTEX=<0.099
DRO=17
GRO=<4.9

BENZENE=<0.047
BTEX=<0.094
DRO=<9.9
GRO=<4.7

SC-3

SC-2

SC-1
COMPOSITE AREA
BENZENE=<0.048
BTEX=<0.096
DRO=11
GRO=<4.8

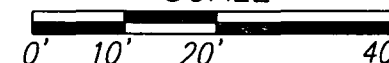
RELEASE POINT

METER HOUSE

LABORATORY RESULTS REPORTED 1/21/2014

LABORATORY RESULTS IN mg/kg

SCALE



SOUDER, 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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FARMINGTON, NEW MEXICO

SOIL CONTAMINANT CONCENTRATION MAP

SJ 27-5 #133

SECTION 19, T27N, R5W

RIO ARriba COUNTY, NEW MEXICO

Designed SM	Drawn DJB	Checked RSA
Date: 1/7/2014		
Scale: Horiz: 1"=20'	Vert: N/A	
Project No: 5122104		
Sheet: 3		

TABLES

Depth to Groundwater	NMOCD Numeric Rank for this Site	Source for Ranking	Notes
< 50 BGS = 20	20	Verified using Google Earth and Topo maps; Field verified.	Groundwater is assumed to be less than 50 feet below 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.	Field verification that release is located east of Cereza Canyon Wash.
200'-1000' = 10	10		
>1000' = 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.	There are no wells within 1,000 feet of the site. There are four points of diversion within a mile radius.
Total Site Ranking	30		
Soil Remediation 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



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: 30		100 ppm		10 ppm	50 ppm
1/7/2014	5:00	SC-1 (Surface to 2.5")	0.21	<4.8	11.0	<0.048	<0.096
1/7/2014	12:41	SC-2 @ RP	0.75	<4.7	<9.9	<0.047	<0.094
1/7/2014	1:09	SC-3 (14' from RP @ Surface)	0	<4.9	17.0	<0.049	<0.099



FIELD SCREENING RESULTS SUMMARY					
Date	Time	Field screening Reference	Sample Depth (Feet BGS)	PID Reading	Lab Sample Collected Y/N
12/19/2013	14:14	0' (RP)	0	114.8	N
12/19/2013	14:12	14' W RP	0	336.4	N
12/19/2013	14:10	28' W RP	0	52.8	N
12/19/2013	14:09	42' W RP	0	21.7	N
12/19/2013	14:07	56' W RP	0	1.1	N
12/19/2013	14:05	70' W RP	0	1.2	N
1/7/2014	12:05	SC-1 Composite Surface	0.21	20.5	Y
1/7/2014	12:41	SC-2 RP	0.67	150.7	Y
1/7/2014	13:09	SC-3 (14' W of RP)	0	5.2	Y



APPENDIX A

FIELD NOTES

SUBJECT SJ 27-5-#133 Meter Run

PROJECT

PAGE 1052

CLIENT EPCo

DATE 12/19/13

BY SJM

CHECKED

BY

- S. Maskal on site @ 1345 to inspect site release for enviro. impacts.

- Appears that the meter run cracked due to freezing, releasing an unknown quantity of condensate. The condensate appeared to travel approx. 70' to the west, fanning out to approx 40' in width.

- Surface samples were collected for PID field screening in 14' intervals from the release point (0') to 70' west along the center of the path traveled.

<u>Location</u>	<u>PID</u>	<u>Time collected</u>	<u>Time screened</u>
0' (R.R.)	114.8	1414	1545
14' W	336.4	1412	1546
28' W	52.8	1410	1547
42' W	21.7	1409	1548
56' W	1.1	1407	1547
70' W	1.2	1405	1550

SUBJECT ST 27-S #133 meter Run

PROJECT

PAGE 2 of 2

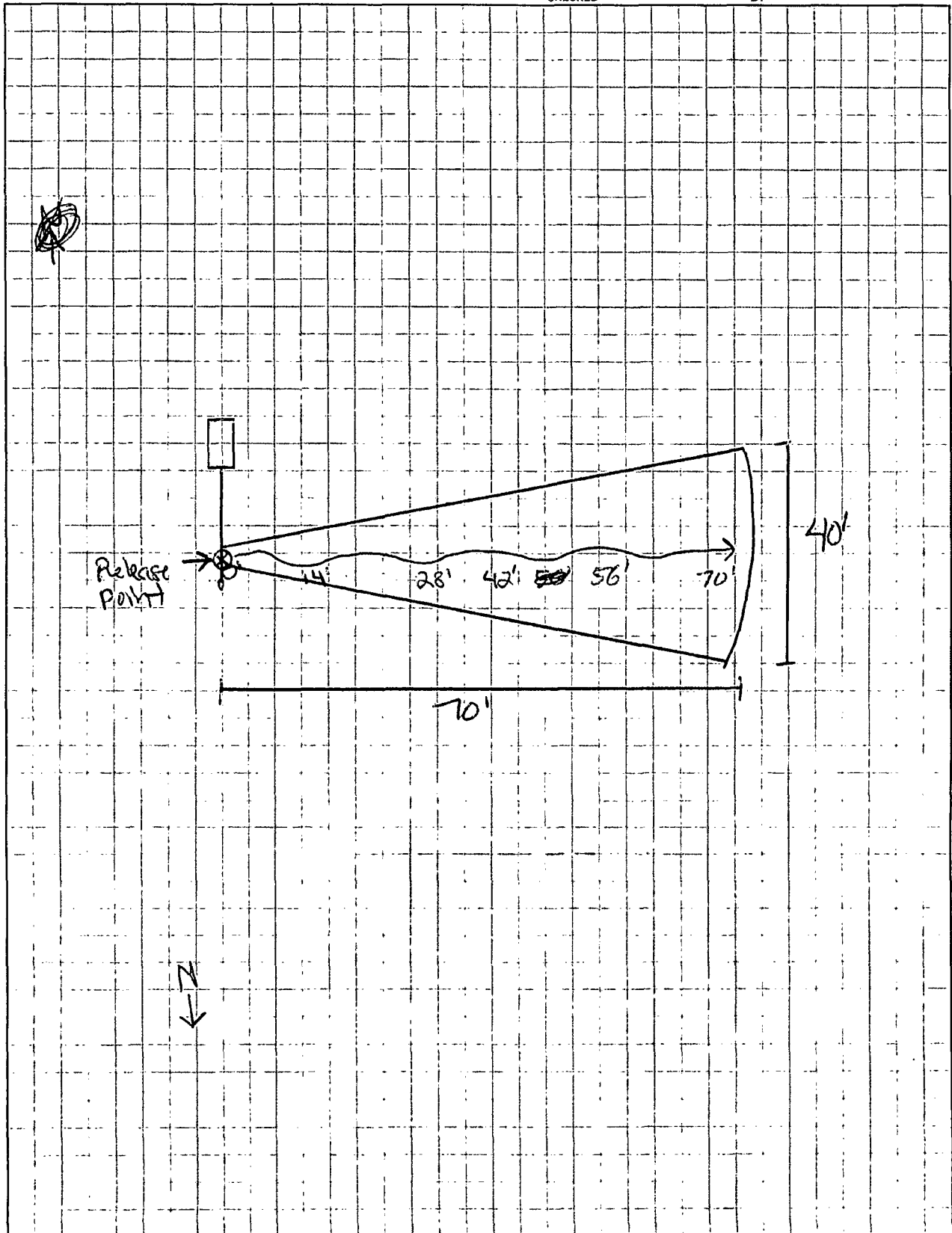
CLIENT EPCO

DATE 12/19/13

BY SSM

CHECKED

BY



SUBJECT SS 27-5 #133

PROJECT

PAGE

1 of 1

CLIENT EPCO

DATE

1/7/14

BY

SJM

CHECKED

BY

-S. Masked on site @ 1150

-IMI making Repairs to Meter Run

-Sign on to EPCO work Permit/COTO

-Complete SMA Tailgate Safety

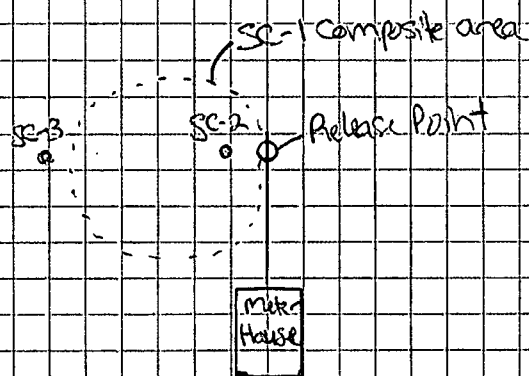
-Calibrate PIP: 101.2

-Collect composite sample from material collected by IMI

Sample ID	Location / Description	Concentration (ppm)	Collected @	Screened @
SC-1	Composite Surface @ 2.5"	20.5 ppm	1205	1215
SC-2	8" bgs PRP	150.7 ppm	1241	1256
SC-3	Surface @ 14" WRP	5.2	1309	1224

-offsite @ 1330

-Material collected by IMI will be left on site.



Tank Berm

APPENDIX B
SITE PHOTOGRAPHY

Site Photographs
Enterprise Products for the San Juan 27-5 #133 Meter Run Release



Photo 1: View of the SJ 27-5 #133 Meter Run release point.

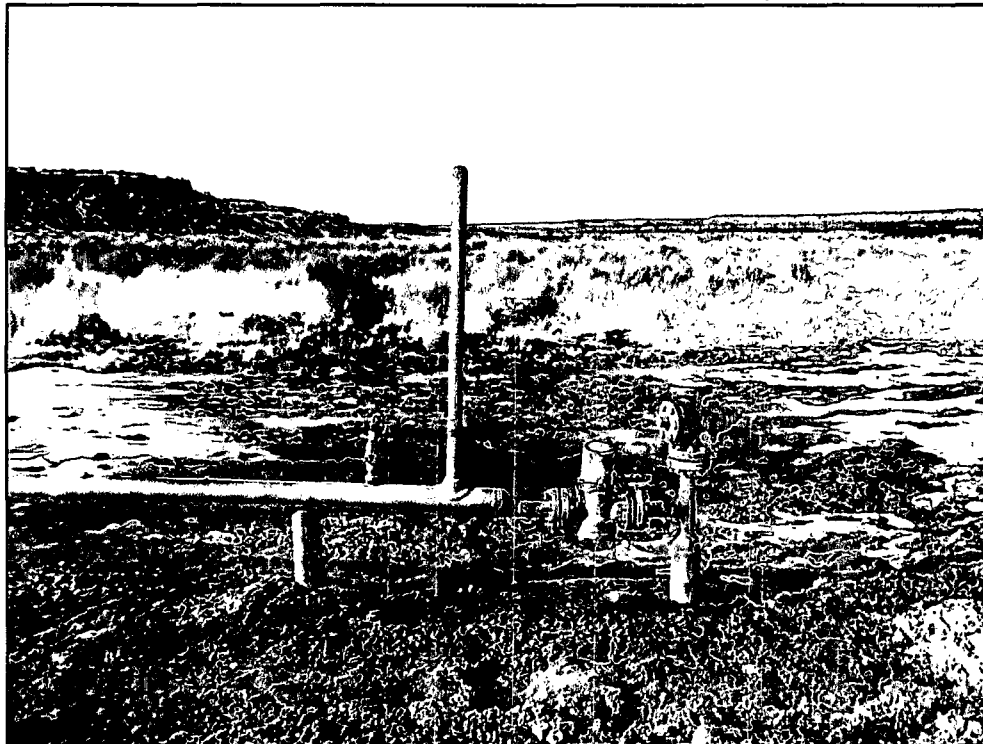


Photo 2: View of the SJ 27-5 #133 release looking west.

Site Photographs
Enterprise Products for the San Juan 27-5 #133 Meter Run Release

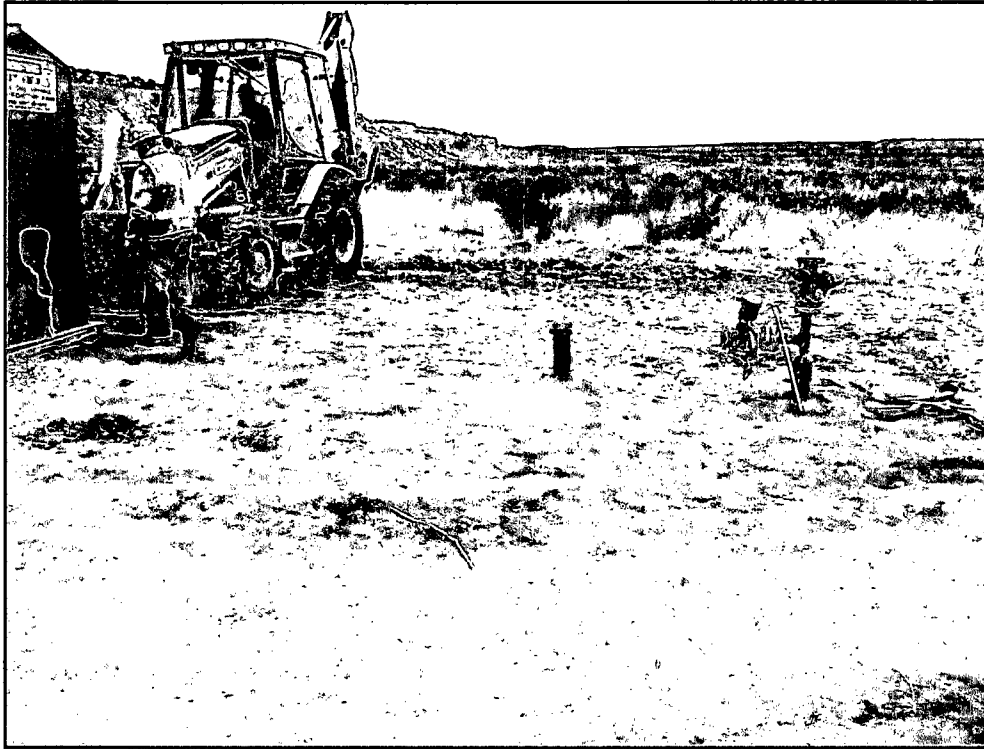


Photo 3: View of the Meter run repair activities. The area of impact was scraped just beyond the underground tie-in in the photo.

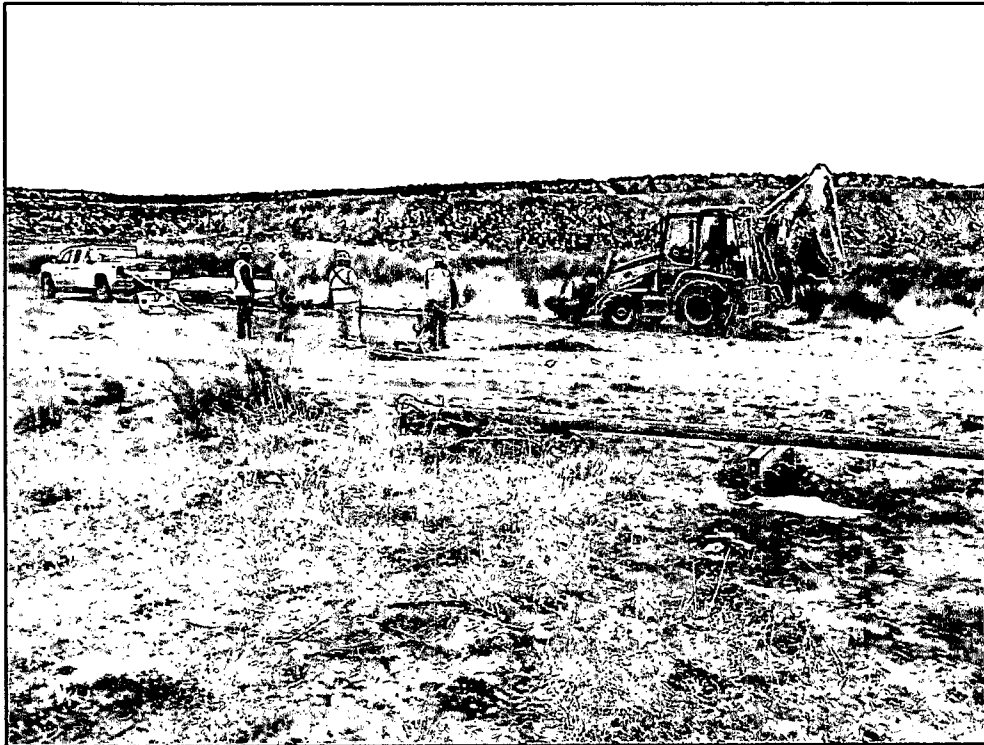


Photo 4: View of the impacted area being scraped with a backhoe.

APPENDIX D

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*

January 21, 2014

Steve Moskal
Souder, Miller and Associates
2101 San Juan Boulevard
Farmington, NM 87401
TEL: (505) 325-5667
FAX (505) 327-1496

RE: San Juan 27-5 #133 (12/13)

OrderNo.: 1401446

Dear Steve Moskal:

Hall Environmental Analysis Laboratory received 3 sample(s) on 1/11/2014 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 qualifers 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,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1401446

Date Reported: 1/21/2014

CLIENT: Souder, Miller and Associates

Client Sample ID: SC-1 (Surface to 2.5")

Project: San Juan 27-5 #133 (12/13)

Collection Date: 1/7/2014 12:05:00 PM

Lab ID: 1401446-001

Matrix: SOIL

Received Date: 1/11/2014 12:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	11	10		mg/Kg	1	1/14/2014 8:46:14 PM	11196
Surr: DNOP	98.5	66-131		%REC	1	1/14/2014 8:46:14 PM	11196
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/15/2014 3:31:16 PM	11192
Surr: BFB	93.0	74.5-129		%REC	1	1/15/2014 3:31:16 PM	11192
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	1/15/2014 3:31:16 PM	11192
Toluene	ND	0.048		mg/Kg	1	1/15/2014 3:31:16 PM	11192
Ethylbenzene	ND	0.048		mg/Kg	1	1/15/2014 3:31:16 PM	11192
Xylenes, Total	ND	0.096		mg/Kg	1	1/15/2014 3:31:16 PM	11192
Surr: 4-Bromofluorobenzene	101	80-120		%REC	1	1/15/2014 3:31:16 PM	11192

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		

Analytical Report

Lab Order 1401446

Date Reported: 1/21/2014

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Souder, Miller and Associates**Client Sample ID:** SC-2 (RP @ 0.75')**Project:** San Juan 27-5 #133 (12/13)**Collection Date:** 1/7/2014 12:41:00 PM**Lab ID:** 1401446-002**Matrix:** SOIL**Received Date:** 1/11/2014 12:20:00 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	1/14/2014 9:16:54 PM	11196
Surr: DNOP	97.2	66-131		%REC	1	1/14/2014 9:16:54 PM	11196
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/14/2014 4:45:07 PM	11198
Surr: BFB	97.7	74.5-129		%REC	1	1/14/2014 4:45:07 PM	11198
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	1/14/2014 4:45:07 PM	11198
Toluene	ND	0.047		mg/Kg	1	1/14/2014 4:45:07 PM	11198
Ethylbenzene	ND	0.047		mg/Kg	1	1/14/2014 4:45:07 PM	11198
Xylenes, Total	ND	0.094		mg/Kg	1	1/14/2014 4:45:07 PM	11198
Surr: 4-Bromofluorobenzene	106	80-120		%REC	1	1/14/2014 4:45:07 PM	11198

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		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1401446

Date Reported: 1/21/2014

CLIENT: Souder, Miller and Associates

Client Sample ID: SC-3 (14' from RP @ Surface)

Project: San Juan 27-5 #133 (12/13)

Collection Date: 1/7/2014 1:09:00 PM

Lab ID: 1401446-003

Matrix: SOIL

Received Date: 1/11/2014 12:20:00 PM

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	1/14/2014 9:47:36 PM	11196
Surr: DNOP	101	66-131		%REC	1	1/14/2014 9:47:36 PM	11196
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/15/2014 12:47:51 AM	11198
Surr: BFB	100	74.5-129		%REC	1	1/15/2014 12:47:51 AM	11198
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	1/15/2014 12:47:51 AM	11198
Toluene	ND	0.049		mg/Kg	1	1/15/2014 12:47:51 AM	11198
Ethylbenzene	ND	0.049		mg/Kg	1	1/15/2014 12:47:51 AM	11198
Xylenes, Total	ND	0.099		mg/Kg	1	1/15/2014 12:47:51 AM	11198
Surr: 4-Bromofluorobenzene	108	80-120		%REC	1	1/15/2014 12:47:51 AM	11198

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

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#: 1401446

21-Jan-14

Client: Souder, Miller and Associates

Project: San Juan 27-5 #133 (12/13)

Sample ID	MB-11196	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	11196	RunNo:	16046					
Prep Date:	1/13/2014	Analysis Date:	1/14/2014	SeqNo:	462288	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	10		10.00		104	66	131			

Sample ID	LCS-11196	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	11196	RunNo:	16046					
Prep Date:	1/13/2014	Analysis Date:	1/14/2014	SeqNo:	462296	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	99.3	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 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1401446

21-Jan-14

Client: Souder, Miller and Associates

Project: San Juan 27-5 #133 (12/13)

Sample ID	MB-11198	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	11198	RunNo:	16058					
Prep Date:	1/13/2014	Analysis Date:	1/14/2014	SeqNo:	462918	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	900		1000		90.0	74.5	129			

Sample ID	LCS-11198	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	11198	RunNo:	16058					
Prep Date:	1/13/2014	Analysis Date:	1/14/2014	SeqNo:	462919	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	117	74.5	126			
Surr: BFB	970		1000		96.8	74.5	129			

Sample ID	1401446-002AMS	SampType:	MS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	SC-2 (RP @ 0.75')	Batch ID:	11198	RunNo:	16058					
Prep Date:	1/13/2014	Analysis Date:	1/14/2014	SeqNo:	462922	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	4.9	24.46	1.177	116	69.5	145			
Surr: BFB	1000		978.5		103	74.5	129			

Sample ID	1401446-002AMSD	SampType:	MSD	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	SC-2 (RP @ 0.75')	Batch ID:	11198	RunNo:	16058					
Prep Date:	1/13/2014	Analysis Date:	1/14/2014	SeqNo:	462923	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	31	4.9	24.51	1.177	123	69.5	145	5.54	20	
Surr: BFB	920		980.4		94.2	74.5	129	0	0	

Sample ID	MB-11210	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	11210	RunNo:	16101					
Prep Date:	1/14/2014	Analysis Date:	1/15/2014	SeqNo:	463647	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	880		1000		88.2	74.5	129			

Sample ID	LCS-11210	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	11210	RunNo:	16101					
Prep Date:	1/14/2014	Analysis Date:	1/15/2014	SeqNo:	463648	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	870		1000		86.7	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 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1401446

21-Jan-14

Client: Souder, Miller and Associates

Project: San Juan 27-5 #133 (12/13)

Sample ID	MB-11192	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	11192	RunNo:	16104					
Prep Date:	1/13/2014	Analysis Date:	1/15/2014	SeqNo:	463814	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

900

1000

89.8

74.5

129

Sample ID	LCS-11192	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	11192	RunNo:	16104					
Prep Date:	1/13/2014	Analysis Date:	1/15/2014	SeqNo:	463815	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

108

74.5

126

Surr: BFB

960

1000

96.5

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 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1401446

21-Jan-14

Client: Souder, Miller and Associates

Project: San Juan 27-5 #133 (12/13)

Sample ID	MB-11198	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID: 11198			RunNo: 16058					
Prep Date:	1/13/2014	Analysis Date: 1/14/2014			SeqNo: 463002		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-11198	SampType: LCS			TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID: 11198			RunNo: 16058					
Prep Date:	1/13/2014	Analysis Date: 1/14/2014			SeqNo: 463003		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	107	80	120			
Toluene	1.1	0.050	1.000	0	107	80	120			
Ethylbenzene	1.1	0.050	1.000	0	106	80	120			
Xylenes, Total	3.2	0.10	3.000	0	108	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		112	80	120			

Sample ID	1401446-003AMS	SampType: MS		TestCode: EPA Method 8021B: Volatiles						
Client ID:	SC-3 (14' from RP @	Batch ID: 11198		RunNo: 16058						
Prep Date:	1/13/2014	Analysis Date: 1/14/2014		SeqNo: 463010		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.049	0.9794	0	102	67.4	135			
Toluene	1.0	0.049	0.9794	0.01698	101	72.6	135			
Ethylbenzene	1.0	0.049	0.9794	0.02359	99.9	69.4	143			
Xylenes, Total	3.0	0.098	2.938	0.04551	101	70.8	144			
Surr: 4-Bromofluorobenzene	1.1		0.9794		108	80	120			

Sample ID	1401446-003AMSD	SampType: MSD	TestCode: EPA Method 8021B: Volatiles							
Client ID:	SC-3 (14' from RP @	Batch ID: 11198	RunNo: 16058							
Prep Date:	1/13/2014	Analysis Date: 1/14/2014	SeqNo: 463011		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	0.9901	0	103	67.4	135	2.30	20	
Toluene	1.0	0.050	0.9901	0.01698	103	72.6	135	3.12	20	
Ethylbenzene	1.0	0.050	0.9901	0.02359	103	69.4	143	4.44	20	
Xylenes, Total	3.2	0.099	2.970	0.04551	105	70.8	144	4.76	20	
Surr: 4-Bromofluorobenzene	1.0		0.9901		104	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 for VOA and TOC only.
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1401446

21-Jan-14

Client: Souder, Miller and Associates

Project: San Juan 27-5 #133 (12/13)

Sample ID	MB-11210	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles						
Client ID:	PBS	Batch ID: 11210		RunNo: 16101						
Prep Date:	1/14/2014	Analysis Date: 1/15/2014		SeqNo: 463721		Units: %REC				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120			

Sample ID	LCS-11210	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	11210	RunNo:	16101					
Prep Date:	1/14/2014	Analysis Date:	1/15/2014	SeqNo:	463723	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120			

Sample ID	MB-11192	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID: 11192			RunNo: 16104					
Prep Date:	1/13/2014	Analysis Date: 1/15/2014			SeqNo: 463837		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	1.0		1.000		104	80	120			

Sample ID	LCS-11192	SampType: LCS			TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID: 11192			RunNo: 16104					
Prep Date:	1/13/2014	Analysis Date: 1/15/2014			SeqNo: 463838		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	107	80	120			
Toluene	1.0	0.050	1.000	0	103	80	120			
Ethylbenzene	1.1	0.050	1.000	0	106	80	120			
Xylenes, Total	3.2	0.10	3.000	0	107	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		109	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



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87105
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: SMA-FARM

Work Order Number: 1401446

RcptNo: 1

Received by/date:	AF	01/11/14
Logged By:	Lindsay Mangin	1/11/2014 12:20:00 PM
Completed By:	Lindsay Mangin	1/13/2014 8:37:35 AM
Reviewed By:	TO	01/13/2014

Chain of Custody

- | | | | |
|--|---|-----------------------------|---|
| 1. Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 2. Is Chain of Custody complete? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 3. How was the sample delivered? | Courier | | |

Log In

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

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	2.4	Good	Yes			

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)
 Accreditation
☐ NELAP ☐ Other _____
☐ EDD (Type) _____

Sample Temperature: 2.4°C

[illegible]

Date:	Time:	Relinquished by:	Received by:	Date	Time
7/10/14	1646	<i>[Signature]</i>	<i>[Signature]</i>	7/10/14	1640
Date:	Time:	Relinquished by:	Received by:	Date	Time
1/10/14	1750	<i>[Signature]</i>	<i>[Signature]</i>	1/11/14	1220

Remarks:
Please Invoice Directly to SMA and copy
Shawna chubback@soudermiller.com

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 noted 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 Avenue, Farmington NM 87401	Telephone No.	505-599-2286
Facility Name	Jicarilla J-4 Well Tie Pipeline	Facility Type	Natural gas well tie line
Surface Owner	Jicarilla Tribal	Mineral Owner	Jicarilla Tribal
		API No.	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	19	26N	5W					Rio Arriba

Latitude N36.47489 Longitude W 107.40057

NATURE OF RELEASE

Type of Release	Natural gas	Volume of Release	Unknown	Volume:	Approximately 30 cubic yards
Source of Release	Well tie line	Date and Hour of Occurrence	Unknown	Date and Hour of Discovery	5/15/2013 @ 09:00 hours by third party producer, Line isolated 5/15/2013 by Enterprise.
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes* <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Bryce Hammond and Hobson Sandoval *Immediate notification for any quantity of unauthorized release required by Jicarilla Oil and Gas Administration		
By Whom?	Aaron Dailey	Date and Hour	5/15/2013 @ 11:30 hours	PCVD FEB 10'14	
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	OIL CONS. DIV. DIST. 3		

If a Watercourse was Impacted, Describe Fully.*

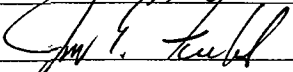
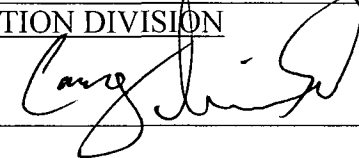
Describe Cause of Problem and Remedial Action Taken.*

Third party producer discovered and reported to Enterprise a suspected line leak on the Jicarilla J-4 gathering line. Line was isolated and removed from service using LOTO. Notifications were made to jurisdictional agencies and repairs were scheduled for June 4, 2013.

Describe Area Affected and Cleanup Action Taken.*

Affected area of stained soil was estimated at approximately 53feet X 10feet X 3-6.5 inches deep. Cleanup using dig and haul techniques occurred on 6/5/2013. Third party environmental contractor was on site to provide cleanup guidance. Enterprise worked closely with the Jicarilla Environmental Protection Office on remediation activities. 500 gallons of potassium permanganate was applied to the walls and base of the excavation. Upon completion of this application verbal approval to backfill was provided by a representative of the Jicarilla Environmental Protection Office. Please find attached associated third party corrective action report with this "final" c-141 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 E. Fields			Approved by Environmental Specialist: 	
Title:	Director, Field Environmental			Approval Date:	5/11/14
E-mail Address:	jefields@eprod.com			Expiration Date:	
Date:	2-5-2014			Phone:	(713) 381-6684
				Conditions of Approval:	Attached <input type="checkbox"/>

* Attach Additional Sheets If Necessary

NCS 141 2154852



Animas Environmental Services, LLC

www.animasenvironmental.com

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

Durango, Colorado
970-403-3084

September 11, 2013

Runell Seale
Enterprise Field Services, LLC
614 Reilly Avenue
Farmington, New Mexico 87401

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

OIL CONS. DIV DIST. 3

APR 29 2014

**RE: Release Assessment Report
Jicarilla J-4 Well Tie June 2013 Pipeline Release
SE¼ NW¼, Section 19, T26N, R5W
Rio Arriba County, New Mexico**

Dear Ms. Seale:

On June 5, 2013, Animas Environmental Services, LLC (AES) completed an assessment associated with a non-reportable release (less than 50 Mcf) of natural gas from the Enterprise Field Services, LLC (Enterprise) 4-inch diameter Jicarilla J-4 well tie pipeline. The release, which is located approximately 38 miles southwest of Dulce, Rio Arriba County, New Mexico, was discovered on May 15, 2013, and resulted from a pipeline leak caused by corrosion.

1.0 Site Information

1.1 Location

Location - SE¼ NW¼, Section 19, T26N, R5W, Rio Arriba County, New Mexico

Latitude/Longitude - N36.47485 and W107.40063, respectively

Surface Owner – Jicarilla Apache Tribe

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map

1.2 JANOGA Action Levels

In accordance with the Jicarilla Apache Nation Oil and Gas Administration (JANOGA) release protocols, action levels for soils are as follows: 10 mg/kg benzene, 50 mg/kg benzene, toluene, ethylbenzene, and xylenes (total BTEX), and 100 mg/kg total petroleum hydrocarbons (TPH).

1.3 Assessment and Mitigation

Prior to June 5, 2013, Enterprise contractors completed an excavation along the pipeline and determined that the release was the result of a pipeline leak caused by corrosion. The leak was immediately repaired, and prior to backfilling the excavation, AES collected a total of eight confirmation soil samples for field screening and laboratory analysis from the walls and base of the final excavation. Two composite samples were also collected from excavated soils, which were temporarily landfarmed and stockpiled on-site. The final excavation was approximately 53 feet by 10 feet by 3 to 6.5 feet deep and terminated on sandstone. Soil sample locations and final excavation extents are included on Figure 3, and a photograph log is attached.

At the request of Hobson Sandoval, Environmental Specialist for the Jicarilla Apache Environmental Protection Office, 500 gallons of potassium permanganate were applied to the walls and base of the excavation. Envirotech, Inc. (Envirotech) mobilized to the location on June 10, 2013, to conduct the application. Envirotech collected an additional sample from the west stockpile for field screening. Once the potassium permanganate application was completed, Mr. Sandoval gave verbal approval to backfill the excavation with the material from the west stockpile and additional clean fill. The east stockpile (approximately 48 yd³) was removed for proper disposal at the T-n-T Environmental Inc. landfarm.

2.0 Soil Sampling

A total of eight composite soil samples (SC-1 through SC-8) were collected from the four walls and the base of the final excavation during the assessment. Soil samples were field screened for volatile organic compounds (VOCs) and were also analyzed for total petroleum hydrocarbons (TPH). Soil samples SC-1 through SC-8 were also submitted for laboratory analysis. Additionally, two composite samples were collected from the stockpiled soils (West Stockpile and East Stockpile) for laboratory analysis, and the west stockpile was resampled by Envirotech on June 10, 2013, for field screening of TPH.

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.

2.1.2 Total Petroleum Hydrocarbons

Field TPH samples collected by AES were analyzed per USEPA Method 418.1 using a Buck Scientific Model HC-404 Total Hydrocarbon Analyzer Infrared Spectrometer (Buck).

A 3-point calibration was completed prior to conducting soil analyses. Field analytical protocol followed AES's *Standard Operating Procedure: Field Analysis Total Petroleum Hydrocarbons per EPA Method 418.1*.

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), diesel range organics (DRO), and motor oil range organics (MRO) per USEPA Method 8015D.

2.3 Field Screening and Laboratory Analytical Results

Soil field screening results showed that VOC concentrations via OVM ranged from 165 ppm in SC-4 to greater than 10,000 ppm in SC-3. Field TPH concentrations ranged from 53.4 mg/kg in SC-8 up to 1,040 mg/kg in SC-5. The AES field screening report is attached.

The composite sample from the west stockpile collected by Envirotech was reported to have a VOC concentration of 15.0 ppm and a field TPH of 156 mg/kg. The Envirotech report entitled *Confirmation Sampling and Potassium Permanganate Spray Documentation for the Jicarilla J4 Pipeline* dated July 1, 2013, is also attached.

Table 1. Soil Field Screening VOCs and TPH Results
 Jicarilla J-4 Well Tie Pipeline Release Assessment, June 2013

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Sample Depth (ft bgs)</i>	<i>VOCs via OVM (ppm)</i>	<i>Field TPH (mg/kg)</i>
JANOGA Action Level			--	100
SC-1	6/5/13	1 to 6.5	1,000	72.7
SC-2	6/5/13	3 to 6.5	4,771	92.0
SC-3	6/5/13	1 to 4.5	>10,000	98.9
SC-4	6/5/13	1 to 4.5	165	98.9
SC-5	6/5/13	3 to 6.5	2,943	1,040
SC-6	6/5/13	1 to 6.5	1,099	98.9
SC-7	6/5/13	1 to 6.5	1,620	64.4

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Sample Depth (ft bgs)</i>	<i>VOCs via OVM (ppm)</i>	<i>Field TPH (mg/kg)</i>
JANOGA Action Level			--	100
SC-8	6/5/13	1 to 6.5	837	53.4

Laboratory analytical results showed that benzene concentrations were below laboratory detection limits for all samples except SC-5 (5.8 mg/kg), SC-6 (0.071 mg/kg), and the East Stockpile (0.16 mg/kg). Total BTEX concentrations ranged from less than 0.25 mg/kg in SC-1, SC-7, and SC-8 up to 197 mg/kg in SC-5. TPH concentrations ranged from below the laboratory detection limit in SC-7 up to 1,440 mg/kg in SC-5. Laboratory analytical results are included in Table 1 and on Figure 3. Laboratory analytical reports are attached.

Table 2. Laboratory Analytical Results – Benzene, Total BTEX, and TPH
Jicarilla J-4 Well Tie Pipeline Release Assessment, June 2013

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Sample Depth (ft bgs)</i>	<i>Benzene (mg/kg)</i>	<i>Total BTEX (mg/kg)</i>	<i>TPH – GRO (mg/kg)</i>	<i>TPH – DRO (mg/kg)</i>	<i>TPH – MRO (mg/kg)</i>
JANOGA Action Level			10	50		100	
SC-1	6/5/13	1 to 6.5	<0.050	<0.25	<5.0	13	<50
SC-2	6/5/13	3 to 6.5	<0.050	0.42	5.9	14	<50
SC-3	6/5/13	1 to 4.5	<0.050	0.33	<5.0	20	<50
SC-4	6/5/13	1 to 4.5	<0.050	0.68	<5.0	13	<50
SC-5	6/5/13	3 to 6.5	5.8	197	980	460	<500
SC-6	6/5/13	1 to 6.5	0.071	7.2	33	35	<50
SC-7	6/5/13	1 to 6.5	<0.050	<0.25	<5.0	<10	<50
SC-8	6/5/13	1 to 6.5	<0.050	<0.25	<5.0	16	<50
West Stockpile	6/5/13	--	<0.050	1.2	11	38	<50
East Stockpile	6/5/13	--	0.16	28.0	200	76	<50

3.0 Conclusions and Recommendations

In accordance with JANOGA release protocols, AES completed an assessment at the Jicarilla J-4 well tie pipeline release on June 5, 2013. Field screening results for VOCs via OVM ranged from 165 ppm in SC-4 to greater than 10,000 ppm in SC-3. However, laboratory analytical results reported benzene concentrations below the JANOGA action level of 10 mg/kg in each sample. Total BTEX concentrations were below the JANOGA

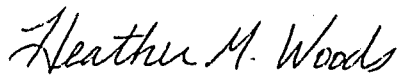
action level of 50 mg/kg for each of the final four walls of the excavation; however, sample SC-5 (collected from the eastern portion of the base of the excavation, which was terminated on sandstone) had a total BTEX concentration of 197 mg/kg. Field TPH concentrations were below the JANOGA action level of 100 mg/kg in each sample, except for SC-5 (1,040 mg/kg TPH). Correspondingly, laboratory TPH concentrations as GRO/DRO/MRO were also below the JANOGA action level in each sample, except for SC-5 with a concentration of 1,440 mg/kg.

Laboratory analytical results for stockpiled soils reported benzene and total BTEX concentrations below the JANOGA action level in the west and east stockpiles. TPH concentrations exceeded the JANOGA action level in the east stockpile, with 276 mg/kg.

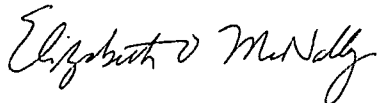
At the request of Hobson Sandoval, Envirotech applied 500 gallons of potassium permanganate to the walls and base of the excavation. Once the potassium permanganate application was completed, Mr. Sandoval gave approval to backfill the excavation. Contaminated soils from the east stockpile were transported to the T-n-T Landfarm for proper disposal, and disposal documentation is attached. No further work is recommended for the Jicarilla J-4 June 2013 Pipeline Release.

If you have any questions about this report or site conditions, please do not hesitate to contact Ross Kennemer 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. Final Excavation Sample Locations and Results, June 2013
Photograph Log
AES Field Screening Report 060513
Envirotech *Confirmation Sampling and Potassium Permanganate Spray
Documentation for the Jicarilla J4 Pipeline* dated July 1, 2013
Hall Analytical Report 1306255
T-n-T Landfarm C-138

CC: Cordell TeCube
Jicarilla Apache Nation
Environmental Protection Office
P.O. Box 507
Dulce, NM 87528

Hobson Sandoval
Jicarilla Apache Nation
Environmental Protection Office
P.O. Box 507
Dulce, NM 87528

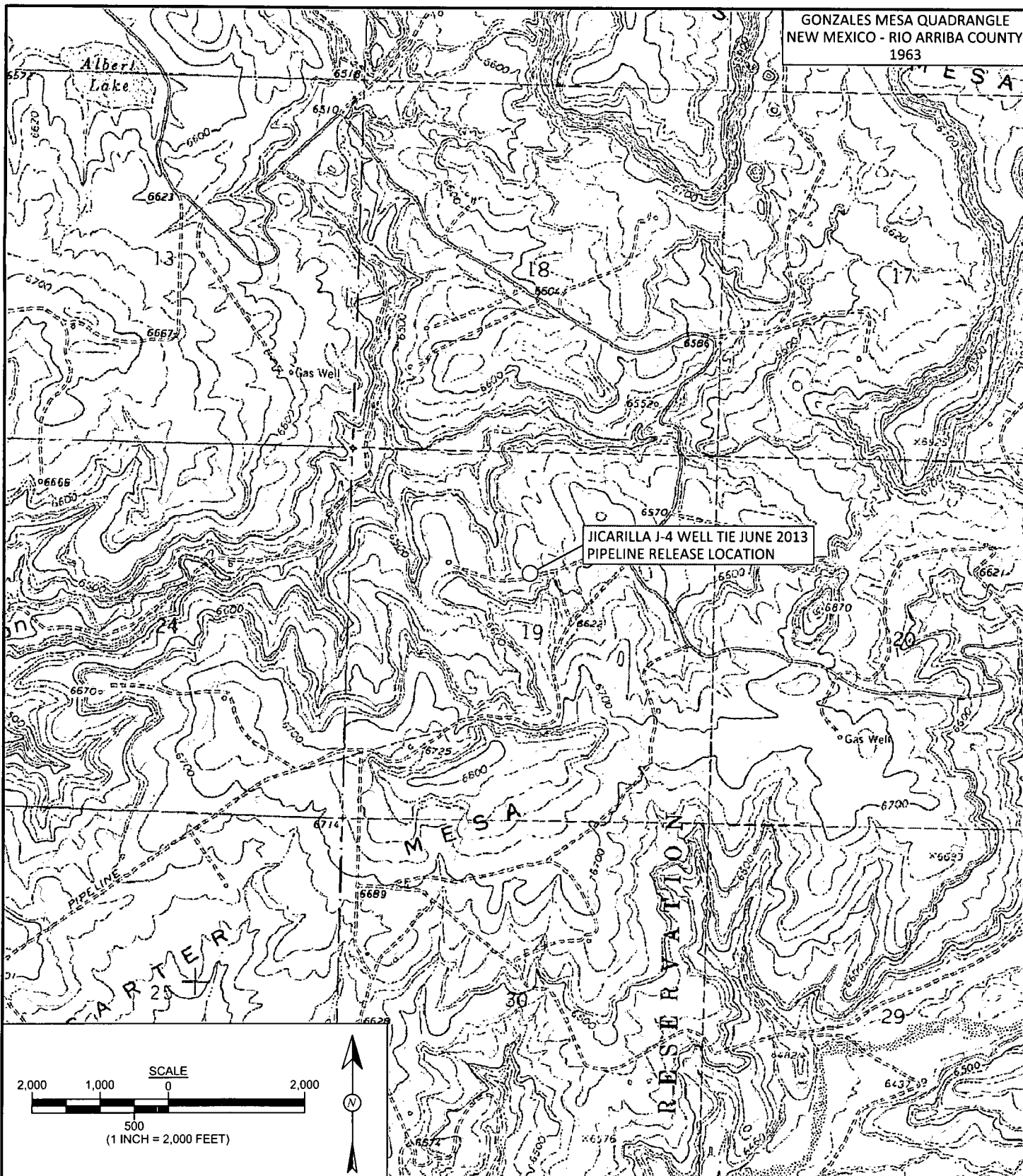
Bryce Hammond
Jicarilla Oil and Gas
P.O. Box 146
Dulce, NM 87528

Sherrie Landon
Environmental Protection Specialist
Via email with delivery confirmation receipt
slandon@blm.gov
Bureau of Land Management
6251 College Blvd., Suite A
Farmington, NM 87401

Glenn von Gonten
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

Brandon Powell
New Mexico Oil Conservation Division
1000 Rio Brazos Road
Aztec, NM 87410

R:\Animas 2000\Dropbox\2013 Projects\Enterprise\Jicarilla J-4\Enterprise Jicarilla J-4 Well Tie Pipeline
Release Report 091113.docx



Animas Environmental Services, LLC

DRAWN BY:
C. Lameman

DATE DRAWN:
June 7, 2013

REVISIONS BY:
C. Lameman

DATE REVISED:
June 7, 2013

CHECKED BY:
H. Woods

DATE CHECKED:
June 7, 2013

APPROVED BY:
E. McNally

DATE APPROVED:
June 7, 2013

FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP
ENTERPRISE FILED SERVICES, LLC
JICARILLA J-4 WELL TIE JUNE 2013 PIPELINE RELEASE
SE¼ NW¼, SECTION 19, T26N, R5W
RIO ARriba COUNTY, NEW MEXICO
N36.47485, W107.40063

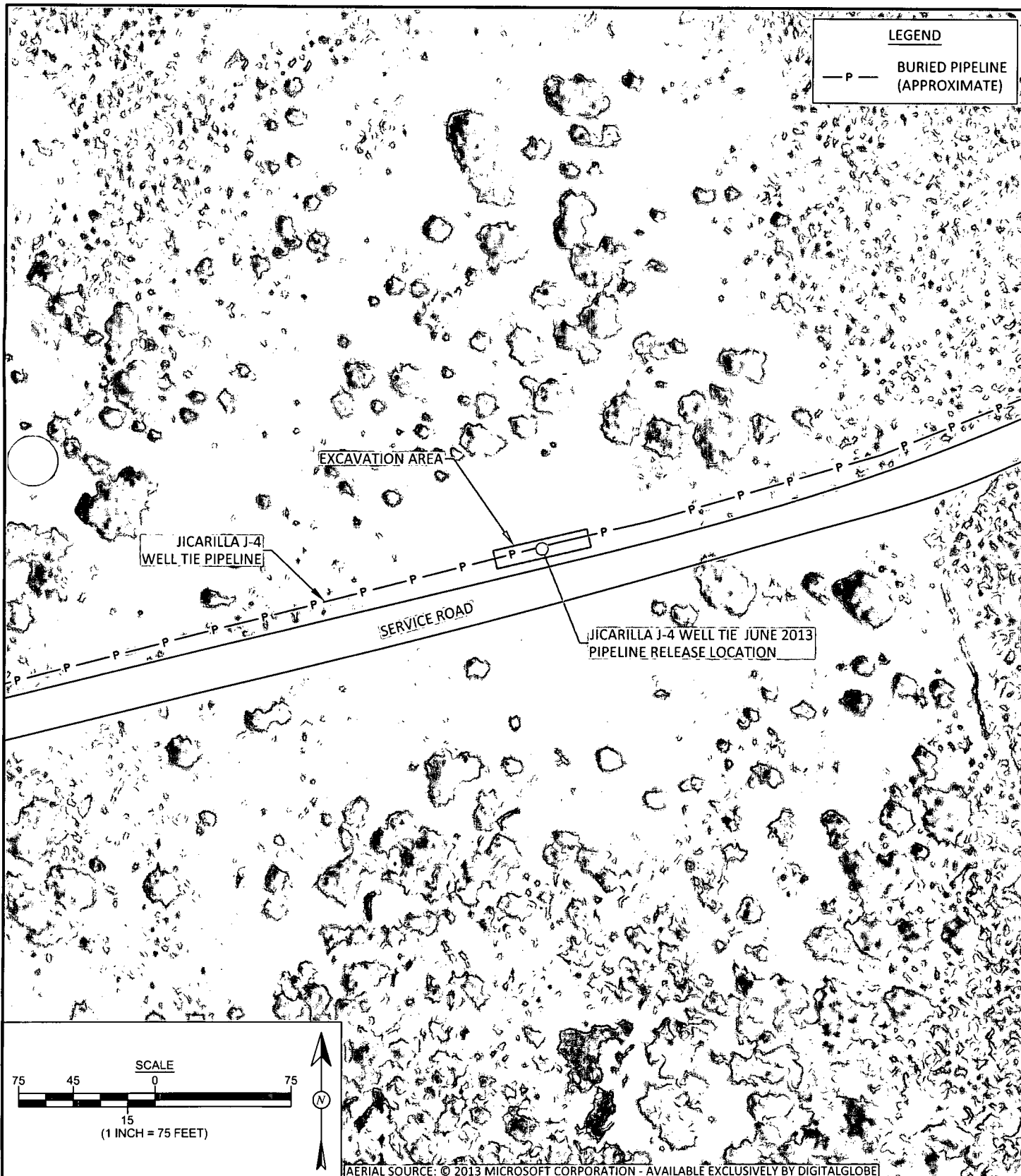


FIGURE 2



Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: June 7, 2013
REVISIONS BY: C. Lameman	DATE REVISED: June 7, 2013
CHECKED BY: H. Woods	DATE CHECKED: June 7, 2013
APPROVED BY: E. McNally	DATE APPROVED: June 7, 2013

AERIAL SITE MAP
 ENTERPRISE FILED SERVICES, LLC
 JICARILLA J-4 WELL TIE JUNE 2013 PIPELINE RELEASE
 SE¼ NW¼, SECTION 19, T26N, R5W
 RIO ARriba COUNTY, NEW MEXICO
 N36.47485, W107.40063

FIGURE 3

INITIAL ASSESSMENT SAMPLE
LOCATIONS AND RESULTS

JUNE 2013
ENTERPRISE FILED SERVICES, LLC
JICARILLA J-4 WELL TIE JUNE 2013
PIPELINE RELEASE
SE¼ NW¼, SECTION 19, T26N, R5W
RIO ARriba COUNTY, NEW MEXICO
N36.47485, W107.40063



Animas Environmental Services, LLC

DRAWN BY:
C. Lameman

DATE DRAWN:
June 7, 2013

REVISIONS BY:
C. Lameman

DATE REVISED:
June 7, 2013

CHECKED BY:
H. Woods

DATE CHECKED:
June 7, 2013

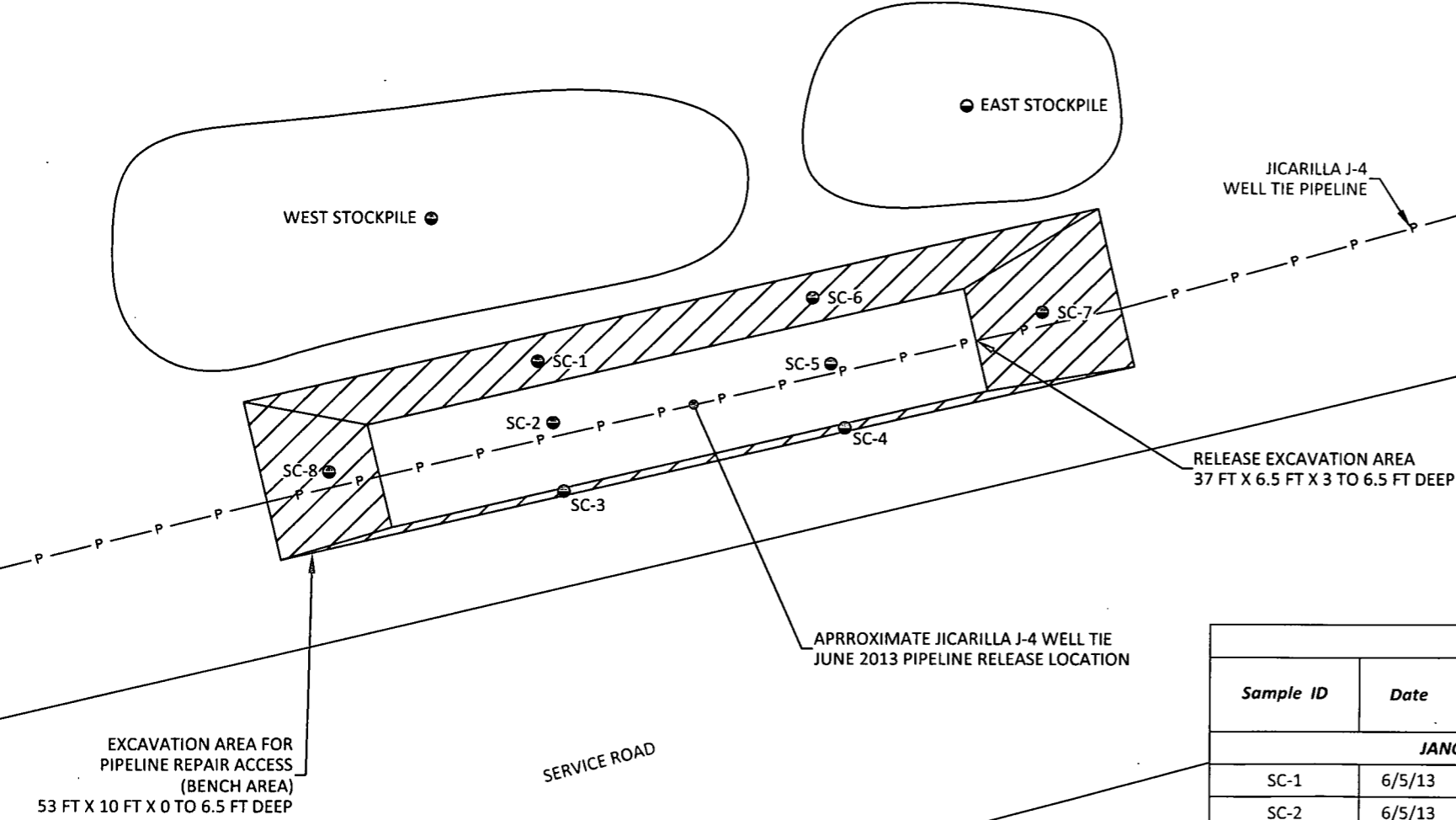
APPROVED BY:
E. McNally

DATE APPROVED:
June 7, 2013

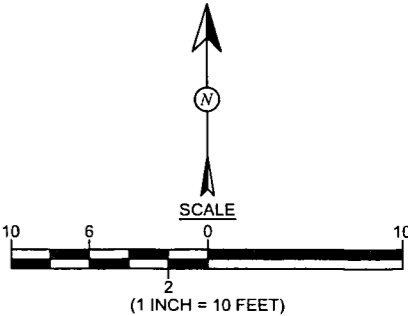
LEGEND

- SAMPLE LOCATIONS
- P — BURIED PIPELINE (APPROXIMATE)

Field Screening Results				
Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
JANOGA LEVELS			--	100
SC-1	6/5/13	1 to 6.5	1,000	72.7
SC-2	6/5/13	3 to 6.5	4,771	92.0
SC-3	6/5/13	1 to 4.5	>10,000	98.9
SC-4	6/5/13	1 to 4.5	165	98.9
SC-5	6/5/13	3 to 6.5	2,943	1,040
SC-6	6/5/13	1 to 6.5	1,099	98.9
SC-7	6/5/13	1 to 6.5	1,620	64.4
SC-8	6/5/13	1 to 6.5	837	53.4
ALL SAMPLES WERE COMPOSITE SAMPLES. NA- NOT ANALYZED				

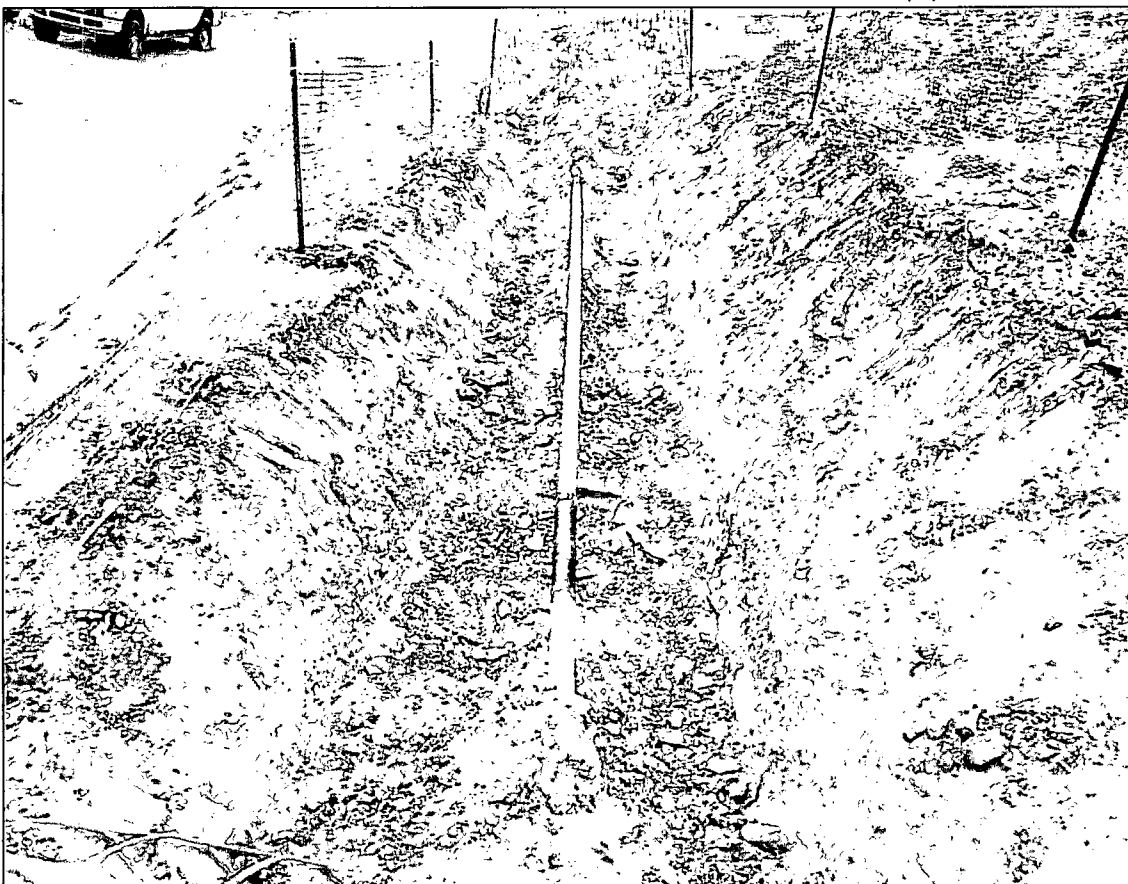


Laboratory Analytical Results							
Sample ID	Date	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)	TPH - MRO (mg/kg)
JANOGA LEVELS			10	50	100		
SC-1	6/5/13	1 to 6.5	<0.050	<0.25	<5.0	13	<50
SC-2	6/5/13	3 to 6.5	<0.050	0.42	5.9	14	<50
SC-3	6/5/13	1 to 4.5	<0.050	0.33	<5.0	20	<50
SC-4	6/5/13	1 to 4.5	<0.050	0.68	<5.0	13	<50
SC-5	6/5/13	3 to 6.5	5.8	197	980	460	<500
SC-6	6/5/13	1 to 6.5	0.071	7.2	33	25	<50
SC-7	6/5/13	1 to 6.5	<0.050	<0.25	<5.0	<10	<50
SC-8	6/5/13	1 to 6.5	<0.050	<0.25	<5.0	16	<50
West Stockpile	6/5/13	--	<0.050	1.2	11	38	<50
East Stockpile	6/5/13	--	0.16	28.0	200	76	<50
ALL SAMPLES WERE ANALYZED PER EPA METHOD 8021B AND 8015D.							



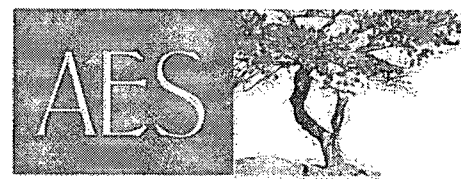


Description: View of the final excavation and repaired pipeline looking to the northeast.



Description: View of the final excavation and repaired pipeline looking to the west.

AES Field Screening Report



Animas Environmental Services, LLC

www.animasenvironmental.com

Client: Enterprise Field Services

Project Location: Jicarilla J-4

Date: 6/5/2013

Matrix: Soil

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

Durango, Colorado
970-403-3084

Sample ID	Collection Date	Collection Time	OVM (ppm)	Time of Sample Analysis	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-1	6/5/2013	9:51	1,000	11:13	72.7	20.0	1	HMW
SC-2	6/5/2013	9:54	4,771	11:16	92.0	20.0	1	HMW
SC-3	6/5/2013	9:56	>10,000	11:19	98.9	20.0	1	HMW
SC-4	6/5/2013	9:59	165	11:22	98.9	20.0	1	HMW
SC-5	6/5/2013	10:02	2,943	11:24	1,040	20.0	1	HMW
SC-6	6/5/2013	10:06	1,099	11:27	98.9	20.0	1	HMW
SC-7	6/5/2013	10:09	1,620	11:29	64.4	20.0	1	HMW
SC-8	6/5/2013	10:12	837	11:31	53.4	20.0	1	HMW

Total Petroleum Hydrocarbons - USEPA 418.1

PQL Practical Quantitation Limit
ND Not Detected at the Reporting Limit
DF Dilution Factor
NA Not Analyzed

Analyst:

Heather M. Woods



July 1, 2013

Project Number 97057-0565

Mr. Aaron Dailey
Enterprise
614 Reilly Ave.
Farmington, New Mexico 87401

Phone: (505) 599-2124
Cell: (505) 427-1719

**RE: CONFIRMATION SAMPLING AND POTASSIUM PERMANGANATE SPRAY DOCUMENTATION
FOR THE JICARILLA J4 PIPELINE, RIO ARriba COUNTY, NEW MEXICO**

Dear Mr. Dailey,


Enclosed please find the field notes and analytical results for confirmation sampling and potassium permanganate spray activities performed at the Jicarilla J4 Pipeline located in Section 19, Township 26 North, Range 5 West, Rio Arriba County, New Mexico. Upon Envirotech personnel's arrival on June 10, 2013, a brief site assessment was conducted. Due to the site being located on the Jicarilla Apache Indian Reservation, the cleanup standards were determined to be 100 ppm Total Petroleum Hydrocarbons (TPH) and 100 ppm organic vapors.

At the above referenced location, Envirotech, Inc. sprayed potassium permanganate into the excavation. One (1) five (5)-point composite sample was collected from a stockpile of soil northwest of the excavation; see enclosed *Field Notes* for location. The sample was analyzed in the field for TPH using USEPA Method 418.1 and for organic vapors using a photoionization detector (PID). The sample returned results slightly above the regulatory standard for TPH, but below the regulatory standard for organic vapor; see enclosed *Analytical Results*. Enterprise representative, Aaron Dailey, discussed the analytical results with the Jicarilla Apache Nation and a determination was made to proceed with backfilling the excavation with the soil from the stockpile.

A backhoe was then utilized to backfill the excavation. The stockpile was used as backfill into the excavation, followed by clean fill soil from east of the release. The release area was then re-contoured back to its pre-incident conditions. Envirotech, Inc. recommends no further action in regards to this incident.

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

Respectfully submitted,
ENVIROTECH, INC.


Tiffany McIntosh
Staff Scientist
tmcintosh@envirotech-inc.com

Enclosure(s): Analytical Results
Field Notes

Cc: Client File 97057



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	Enterprise	Project #:	97057-0565
Sample No.:	1	Date Reported:	6/20/2013
Sample ID:	Stockpile Composite	Date Sampled:	6/10/2013
Sample Matrix:	Soil	Date Analyzed:	6/10/2013
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----------	--------------------------	--------------------------

Total Petroleum Hydrocarbons	156	5.0
------------------------------	-----	-----

ND = Parameter not detected at the stated detection limit.

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

Comments: Jicarilla J4 Pipeline

Instrument calibrated to 200 ppm standard and zeroed before each sample.


Analyst

Tiffany McIntosh
Printed


Review

Greg Crabtree, PE
Printed



CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 10-Jun-13

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	
	200	207
	500	
	1000	

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

[Signature]
Analyst

6/20/2013
Date

Tiffany McIntosh
Print Name

[Signature]
Review

6/20/2013
Date

Greg Crabtree, PE
Print Name

Client: Enterprise	 envirotech <small>(805) 832-0618 (800) 382-1879 8700 U.D. Hwy 84, Farmington, NM 87401</small>	Project No: 97057-0565 COC No:
------------------------------	--	---

FIELD REPORT: SPILL CLOSURE VERIFICATION

PAGE NO: 1 OF 1
 DATE STARTED: 6/10/13
 DATE FINISHED: 6/10/13
 ENVIRONMENTAL SPECIALIST: T. McIntosh

LOCATION: NAME: Jicarilla 54 pipeline WELL #: NA
 QUAD/UNIT: NA SEC: 19 TWP: 26N RNG: 5W PM: NA CNTY: RA ST: NM
 QTR/FOOTAGE: NA CONTRACTOR: N/A

EXCAVATION APPROX: ~60 FT. X ~13 FT. X ~5 FT. DEEP CUBIC YARDAGE:
 DISPOSAL FACILITY: REMEDIATION METHOD: excavation & potassium permanganate
 LAND USE: oil & gas LEASE: NA LAND OWNER: NA
 CAUSE OF RELEASE: broken pipeline MATERIAL RELEASED:


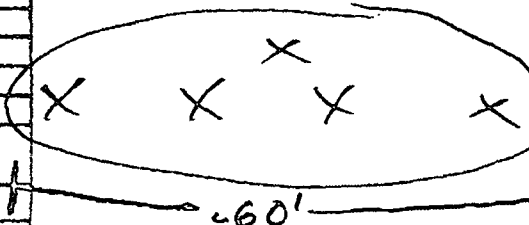
SPILL LOCATED APPROXIMATELY: NA FT. NA FROM NA
 DEPTH TO GROUNDWATER: NEAREST WATER SOURCE: NEAREST SURFACE WATER:
 NMOCD RANKING SCORE: NMOCD TPH CLOSURE STD: 100 PPM Jicarilla determination

SOIL AND EXCAVATION DESCRIPTION:

Results relayed to Aaron Dailey (onsite). He spoke to Jicarilla onsite and a determination was made to go ahead and backfill w/ the stockpile soil, despite that it wasn't <100 ppm. Animus Environmental will be writing up a report for this, according to Aaron Dailey.

SAMPLE DESCRIPTION	TIME	SAMPLE I.D.	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
300 std	1148						207	
stockpile composite	1208	1		5	20	4	39	156

SPILL PERIMETER
OVM RESULTS
SPILL PROFILE

	<table border="1" style="width:100%"> <tr><th>SAMPLE ID</th><th>FIELD HEADSPACE PID (ppm)</th></tr> <tr><td>1</td><td>15.0</td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>	SAMPLE ID	FIELD HEADSPACE PID (ppm)	1	15.0																			<p>5 pt - composite</p> 
SAMPLE ID	FIELD HEADSPACE PID (ppm)																							
1	15.0																							
LAB SAMPLES																								
SAMPLE ID	ANALYSIS	TIME																						

AVBL NOTES: _____ CALLED OUT: _____ ONSITE: _____



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

June 07, 2013

Ross Kennemer

Animas Environmental Services

624 East Comanche

Farmington, NM 87401

TEL: (505) 486-1776

FAX (505) 324-2022

RE: Enterprise Jicarilla J-4

OrderNo.: 1306255

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory received 10 sample(s) on 6/6/2013 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.

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1306255

Date Reported: 6/7/2013

CLIENT: Animas Environmental Services

Client Sample ID: SC-1

Project: Enterprise Jicarilla J-4

Collection Date: 6/5/2013 9:51:00 AM

Lab ID: 1306255-001

Matrix: MEOH (SOIL)

Received Date: 6/6/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	13	10		mg/Kg	1	6/6/2013 12:07:37 PM	7792
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/6/2013 12:07:37 PM	7792
Surr: DNOP	98.8	63-147		%REC	1	6/6/2013 12:07:37 PM	7792
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/6/2013 11:33:25 AM	R11136
Surr: BFB	92.7	80-120		%REC	1	6/6/2013 11:33:25 AM	R11136
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	6/6/2013 11:33:25 AM	R11136
Toluene	ND	0.050		mg/Kg	1	6/6/2013 11:33:25 AM	R11136
Ethylbenzene	ND	0.050		mg/Kg	1	6/6/2013 11:33:25 AM	R11136
Xylenes, Total	ND	0.10		mg/Kg	1	6/6/2013 11:33:25 AM	R11136
Surr: 4-Bromofluorobenzene	97.4	80-120		%REC	1	6/6/2013 11:33:25 AM	R11136

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1306255

Date Reported: 6/7/2013

CLIENT: Animas Environmental Services

Client Sample ID: SC-2

Project: Enterprise Jicarilla J-4

Collection Date: 6/5/2013 9:54:00 AM

Lab ID: 1306255-002

Matrix: MEOH (SOIL)

Received Date: 6/6/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	14	10		mg/Kg	1	6/6/2013 1:33:36 PM	7792
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/6/2013 1:33:36 PM	7792
Surr: DNOP	96.4	63-147		%REC	1	6/6/2013 1:33:36 PM	7792
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	5.9	5.0		mg/Kg	1	6/6/2013 12:02:03 PM	R11136
Surr: BFB	95.8	80-120		%REC	1	6/6/2013 12:02:03 PM	R11136
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	6/6/2013 12:02:03 PM	R11136
Toluene	0.13	0.050		mg/Kg	1	6/6/2013 12:02:03 PM	R11136
Ethylbenzene	ND	0.050		mg/Kg	1	6/6/2013 12:02:03 PM	R11136
Xylenes, Total	0.29	0.10		mg/Kg	1	6/6/2013 12:02:03 PM	R11136
Surr: 4-Bromofluorobenzene	96.4	80-120		%REC	1	6/6/2013 12:02:03 PM	R11136

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
				Page 2 of 13

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-3

Project: Enterprise Jicarilla J-4

Collection Date: 6/5/2013 9:56:00 AM

Lab ID: 1306255-003

Matrix: MEOH (SOIL)

Received Date: 6/6/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS					Analyst: JME		
Diesel Range Organics (DRO)	20	9.9		mg/Kg	1	6/6/2013 1:03:58 PM	7792
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/6/2013 1:03:58 PM	7792
Surr: DNOP	102	63-147		%REC	1	6/6/2013 1:03:58 PM	7792
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB		
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/6/2013 12:30:39 PM	R11136
Surr: BFB	94.8	80-120		%REC	1	6/6/2013 12:30:39 PM	R11136
EPA METHOD 8021B: VOLATILES					Analyst: NSB		
Benzene	ND	0.050		mg/Kg	1	6/6/2013 12:30:39 PM	R11136
Toluene	0.078	0.050		mg/Kg	1	6/6/2013 12:30:39 PM	R11136
Ethylbenzene	ND	0.050		mg/Kg	1	6/6/2013 12:30:39 PM	R11136
Xylenes, Total	0.25	0.10		mg/Kg	1	6/6/2013 12:30:39 PM	R11136
Surr: 4-Bromofluorobenzene	97.9	80-120		%REC	1	6/6/2013 12:30:39 PM	R11136

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-4

Project: Enterprise Jicarilla J-4

Collection Date: 6/5/2013 9:59:00 AM

Lab ID: 1306255-004

Matrix: MEOH (SOIL)

Received Date: 6/6/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	13	9.9		mg/Kg	1	6/6/2013 2:02:15 PM	7792
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/6/2013 2:02:15 PM	7792
Surr: DNOP	96.4	63-147		%REC	1	6/6/2013 2:02:15 PM	7792
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/6/2013 12:59:14 PM	R11136
Surr: BFB	98.5	80-120		%REC	1	6/6/2013 12:59:14 PM	R11136
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	6/6/2013 12:59:14 PM	R11136
Toluene	0.12	0.050		mg/Kg	1	6/6/2013 12:59:14 PM	R11136
Ethylbenzene	0.060	0.050		mg/Kg	1	6/6/2013 12:59:14 PM	R11136
Xylenes, Total	0.50	0.10		mg/Kg	1	6/6/2013 12:59:14 PM	R11136
Surr: 4-Bromofluorobenzene	98.3	80-120		%REC	1	6/6/2013 12:59:14 PM	R11136

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

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

- 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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1306255

Date Reported: 6/7/2013

CLIENT: Animas Environmental Services

Client Sample ID: SC-5

Project: Enterprise Jicarilla J-4

Collection Date: 6/5/2013 10:02:00 AM

Lab ID: 1306255-005

Matrix: MEOH (SOIL)

Received Date: 6/6/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	460	99		mg/Kg	10	6/6/2013 2:31:05 PM	7792
Motor Oil Range Organics (MRO)	ND	500		mg/Kg	10	6/6/2013 2:31:05 PM	7792
Surr: DNOP	0	63-147	S	%REC	10	6/6/2013 2:31:05 PM	7792
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	980	500		mg/Kg	100	6/6/2013 2:43:59 PM	R11137
Surr: BFB	109	80-120		%REC	100	6/6/2013 2:43:59 PM	R11137
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	5.8	2.5		mg/Kg	100	6/6/2013 2:43:59 PM	R11137
Toluene	54	5.0		mg/Kg	100	6/6/2013 2:43:59 PM	R11137
Ethylbenzene	17	5.0		mg/Kg	100	6/6/2013 2:43:59 PM	R11137
Xylenes, Total	120	10		mg/Kg	100	6/6/2013 2:43:59 PM	R11137
Surr: 4-Bromofluorobenzene	100	80-120		%REC	100	6/6/2013 2:43:59 PM	R11137

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
				Page 5 of 13

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1306255

Date Reported: 6/7/2013

CLIENT: Animas Environmental Services

Client Sample ID: SC-6

Project: Enterprise Jicarilla J-4

Collection Date: 6/5/2013 10:06:00 AM

Lab ID: 1306255-006

Matrix: MEOH (SOIL)

Received Date: 6/6/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	25	10		mg/Kg	1	6/6/2013 12:08:23 PM	7792
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/6/2013 12:08:23 PM	7792
Surr: DNOP	106	63-147		%REC	1	6/6/2013 12:08:23 PM	7792
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	33	10		mg/Kg	2	6/6/2013 3:14:19 PM	R11137
Surr: BFB	130	80-120	S	%REC	2	6/6/2013 3:14:19 PM	R11137
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	0.071	0.050		mg/Kg	2	6/6/2013 3:14:19 PM	R11137
Toluene	1.2	0.10		mg/Kg	2	6/6/2013 3:14:19 PM	R11137
Ethylbenzene	0.68	0.10		mg/Kg	2	6/6/2013 3:14:19 PM	R11137
Xylenes, Total	5.2	0.20		mg/Kg	2	6/6/2013 3:14:19 PM	R11137
Surr: 4-Bromofluorobenzene	102	80-120		%REC	2	6/6/2013 3:14:19 PM	R11137

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

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

- 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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-7

Project: Enterprise Jicarilla J-4

Collection Date: 6/5/2013 10:09:00 AM

Lab ID: 1306255-007

Matrix: MEOH (SOIL)

Received Date: 6/6/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/6/2013 12:30:23 PM	7792
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/6/2013 12:30:23 PM	7792
Surr: DNOP	98.6	63-147		%REC	1	6/6/2013 12:30:23 PM	7792
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/6/2013 3:44:36 PM	R11137
Surr: BFB	87.8	80-120		%REC	1	6/6/2013 3:44:36 PM	R11137
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	6/6/2013 3:44:36 PM	R11137
Toluene	ND	0.050		mg/Kg	1	6/6/2013 3:44:36 PM	R11137
Ethylbenzene	ND	0.050		mg/Kg	1	6/6/2013 3:44:36 PM	R11137
Xylenes, Total	ND	0.10		mg/Kg	1	6/6/2013 3:44:36 PM	R11137
Surr: 4-Bromofluorobenzene	90.0	80-120		%REC	1	6/6/2013 3:44:36 PM	R11137

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
				Page 7 of 13

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1306255

Date Reported: 6/7/2013

CLIENT: Animas Environmental Services

Client Sample ID: SC-8

Project: Enterprise Jicarilla J-4

Collection Date: 6/5/2013 10:12:00 AM

Lab ID: 1306255-008

Matrix: MEOH (SOIL)

Received Date: 6/6/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	16	9.9		mg/Kg	1	6/6/2013 12:52:31 PM	7792
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/6/2013 12:52:31 PM	7792
Surr: DNOP	104	63-147		%REC	1	6/6/2013 12:52:31 PM	7792
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/6/2013 2:53:52 PM	R11136
Surr: BFB	95.2	80-120		%REC	1	6/6/2013 2:53:52 PM	R11136
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	6/6/2013 2:53:52 PM	R11136
Toluene	ND	0.050		mg/Kg	1	6/6/2013 2:53:52 PM	R11136
Ethylbenzene	ND	0.050		mg/Kg	1	6/6/2013 2:53:52 PM	R11136
Xylenes, Total	ND	0.10		mg/Kg	1	6/6/2013 2:53:52 PM	R11136
Surr: 4-Bromofluorobenzene	97.8	80-120		%REC	1	6/6/2013 2:53:52 PM	R11136

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

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

- 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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1306255

Date Reported: 6/7/2013

CLIENT: Animas Environmental Services

Client Sample ID: West Stockpile

Project: Enterprise Jicarilla J-4

Collection Date: 6/5/2013 12:15:00 PM

Lab ID: 1306255-009

Matrix: MEOH (SOIL)

Received Date: 6/6/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS					Analyst: JME		
Diesel Range Organics (DRO)	38	10		mg/Kg	1	6/6/2013 1:14:33 PM	7792
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/6/2013 1:14:33 PM	7792
Surr: DNOP	99.1	63-147		%REC	1	6/6/2013 1:14:33 PM	7792
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB		
Gasoline Range Organics (GRO)	11	10		mg/Kg	2	6/6/2013 1:43:22 PM	R11137
Surr: BFB	100	80-120		%REC	2	6/6/2013 1:43:22 PM	R11137
EPA METHOD 8021B: VOLATILES					Analyst: NSB		
Benzene	ND	0.050		mg/Kg	2	6/6/2013 1:43:22 PM	R11137
Toluene	ND	0.10		mg/Kg	2	6/6/2013 1:43:22 PM	R11137
Ethylbenzene	0.11	0.10		mg/Kg	2	6/6/2013 1:43:22 PM	R11137
Xylenes, Total	1.1	0.20		mg/Kg	2	6/6/2013 1:43:22 PM	R11137
Surr: 4-Bromofluorobenzene	94.4	80-120		%REC	2	6/6/2013 1:43:22 PM	R11137

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

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: East Stockpile

Project: Enterprise Jicarilla J-4

Collection Date: 6/5/2013 12:18:00 PM

Lab ID: 1306255-010

Matrix: MEOH (SOIL)

Received Date: 6/6/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	76	9.9		mg/Kg	1	6/6/2013 1:36:45 PM	7792
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/6/2013 1:36:45 PM	7792
Surr: DNOP	96.0	63-147		%REC	1	6/6/2013 1:36:45 PM	7792
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	200	25		mg/Kg	5	6/6/2013 2:13:43 PM	R11137
Surr: BFB	166	80-120	S	%REC	5	6/6/2013 2:13:43 PM	R11137
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	0.16	0.12		mg/Kg	5	6/6/2013 2:13:43 PM	R11137
Toluene	4.2	0.25		mg/Kg	5	6/6/2013 2:13:43 PM	R11137
Ethylbenzene	2.6	0.25		mg/Kg	5	6/6/2013 2:13:43 PM	R11137
Xylenes, Total	21	0.50		mg/Kg	5	6/6/2013 2:13:43 PM	R11137
Surr: 4-Bromofluorobenzene	114	80-120		%REC	5	6/6/2013 2:13:43 PM	R11137

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

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

- 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#: 1306255

07-Jun-13

Client: Animas Environmental Services

Project: Enterprise Jicarilla J-4

Sample ID	MB-7792	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	7792	RunNo:	11120					
Prep Date:	6/6/2013	Analysis Date:	6/6/2013	SeqNo:	314866	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.3		10.00		93.5	63	147			

Sample ID	LCS-7792	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	7792	RunNo:	11120					
Prep Date:	6/6/2013	Analysis Date:	6/6/2013	SeqNo:	314867	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	10	50.00	0	107	77.1	128			
Surr: DNOP	5.1		5.000		101	63	147			

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

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#: 1306255

07-Jun-13

Client: Animas Environmental Services

Project: Enterprise Jicarilla J-4

Sample ID	MB-7764	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	R11136	RunNo:	11136					
Prep Date:	6/5/2013	Analysis Date:	6/6/2013	SeqNo:	315295	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	900		1000		90.1	80	120			

Sample ID	LCS-7764	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	R11136	RunNo:	11136					
Prep Date:	6/5/2013	Analysis Date:	6/6/2013	SeqNo:	315296	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	110	62.6	136			
Surr: BFB	1000		1000		99.7	80	120			

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	R11137	RunNo:	11137					
Prep Date:		Analysis Date:	6/6/2013	SeqNo:	315358	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	900		1000		90.3	80	120			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	R11137	RunNo:	11137					
Prep Date:		Analysis Date:	6/6/2013	SeqNo:	315359	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	108	62.6	136			
Surr: BFB	970		1000		97.2	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

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#: 1306255

07-Jun-13

Client: Animas Environmental Services

Project: Enterprise Jicarilla J-4

Sample ID	MB-7764		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	R11136		RunNo:	11136			
Prep Date:	6/5/2013		Analysis Date:	6/6/2013		SeqNo:	315325		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	0.94		1.000		94.4	80	120			

Sample ID	LCS-7764		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	R11136		RunNo:	11136			
Prep Date:	6/5/2013		Analysis Date:	6/6/2013		SeqNo:	315326		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	99.9	80	120			
Toluene	1.0	0.050	1.000	0	100	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

Sample ID	5ML RB		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	R11137		RunNo:	11137			
Prep Date:			Analysis Date:	6/6/2013		SeqNo:	315376		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		92.6	80	120			

Sample ID	100NG BTEX LCS		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	R11137		RunNo:	11137			
Prep Date:			Analysis Date:	6/6/2013		SeqNo:	315377		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.050	1.000	0	97.8	80	120			
Toluene	0.98	0.050	1.000	0	97.6	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.2	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.3	80	120			
Surr: 4-Bromofluorobenzene	0.95		1.000		95.1	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

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: Animas Environmental

Work Order Number: 1306255

RcptNo: 1

Received by/date: LM 06/06/13

Logged By: Michelle Garcia 6/6/2013 10:00:00 AM

Michelle Garcia

Completed By: Michelle Garcia 6/6/2013 10:23:54 AM

Michelle Garcia

Reviewed By: *LM* 6/6/13

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	2.4	Good	Yes			

Client: Animas Environmental Services

Mailing Address: 624 E. Comanche
Farmington, NM 87401

Phone #: 505-564-2281

email or Fax#:

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other _____

☐ EDD (Type) _____

☐ Standard ☒ Rush Same Day

Project Name:

Enterprise Jicarilla J-4

Project #:

Project Manager:

h. Kennemer

Sampler: H. Woods

On Ice: ☒ Yes ☐ No

Sample Temperature: 25 °C

[illegible]

Date:	Time:	Relinquished by:
2/5/13	1705	Heather M. Woods

Date:	Time:	Relinquished by:
1/5/13	1735	Christian Wadsworth

Received by:	Date	Time
<i>Christine Weller</i>	6/5/13	1705

Received by:	Date	Time
<i>[Signature]</i>	06/06/13	1000

Remarks:



HAZARD ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

	X	X	X	X	X	X	X	X	X	BTEX + MDEB + TOLUENE (8021)
										BTEX + MTBE + TPH (Gas only)
	X	X	X	X	X	X	X	X	X	TPH 8015B (GRO) DRO (MIRO) ^{ALL}
										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 Rubbles (Y or N)

JERRY HEATHER
WOODS
(SEE E-WALK)

District I
525 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
100 Rio Brazos Road, Aztec, NM 87410
District IV
220 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 Products Operating, L.P. 614 Reilly Avenue Farmington, NM 87401

2. **Originating Site:**

Jicarilla Apache J-4 Well Location

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

Unit F Section 19 T26N R5W N 36.47489 W 107.40057

4. **Source and Description of Waste:**

Excavation of exempt petroleum hydrocarbon contaminated soil from a meter tube release cleanup.

Estimated Volume 30 yd³ / bbls Known Volume (to be entered by the operator at the end of the haul) 48 yd³ bbls

5. **GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS**

I, [Signature], representative or authorized agent for Enterprise Products Operating do hereby
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, [Signature], representative for Enterprise Products Operating authorize **T-n-T environmental** to complete
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: Envirotech, Contact Felipe Aragon (505)947-2332 if needed**

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: T-n-T Environmental Inc. NM-01-0008

Address of Facility: #70 CR 405, Lindrieth, NM 87029

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

TITLE:

Env. Pres.

DATE:

6-10-13

SIGNATURE:

[Signature]
Surface Waste Management Facility Authorized Agent

TELEPHONE NO.:

575-774-6504



COMMERCIAL LANDFARM TICKET

T-N-T Environmental, Inc.

#70 CR 405 • Lindrith, NM 87029

Ticket No.

6428

Date: 6/10/13 Customer: Enterprise

Well Name & Number: J4 Pipeline

Customer Rep: Aaron Dailey Charge Code: _____

Trucking Co.: Envirotech Driver (print): Buck Bucklow Phone #: 505-9473075

Truck No.: 658 Delivery Ticket No.: 11916

Once material is loaded it is your responsibility to secure your load.

By signing, you are releasing T-n-T Environmental Inc., its owners and its employees of any and all liabilities.

ITEM NO.	PAINT FILTER TEST RATIO	CHLORIDE RESULTS	CELL	TRASH CHARGE	Impacted Soil		Tank Bottoms		Drilling Fluid		Comments	Driver Signature
					YRDS	BBLS	YRDS	BBLS	YRDS	BBLS		
1	1-1	212	2		12yd							Belwin
2	1	↓	↓		12yd							Blue
3		↓	↓		12yd							Blue
4	✓	↓	↓		12yd							Blue
5												
6												
7												
8												

MATERIAL

B = Backfill

T = Topsoil

S = Sandrock

G = Gravel

ITEM NO.	DRIVER'S SIGNATURE	TYPE	YRDS	ITEM NO.	DRIVER'S SIGNATURE	TYPE	YRDS
1				8			
2				9			
3				10			
4				11			
5				12			
6				13			
7				14			

REPROGRAPHICS 031310T

Date 6-10-13 T-N-T Attendant Vicente Enriquez

YELLOW — Customer PINK — Transporter GOLD — Landfarm

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 J	Section 18	Township 30N	Range 6W	Feet from the	North/South Line	Feet from the	East/West Line	County Rio Arriba
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Latitude 36.810364 Longitude -107.498861

NATURE OF RELEASE

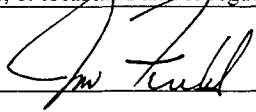
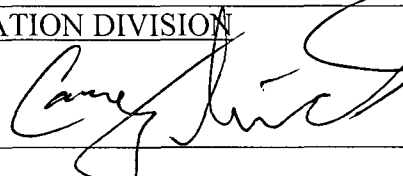
Type of Release: Condensate and Produced Water	Volume of Release: Unknown	Volume Recovered: Unknown
Source of Release: Froze/Cracked offloading valve	Date and Hour of Occurrence: 1/20/2014 @ 12:30p.m.	Date and Hour of Discovery: 1/20/2014 @ 12:30p.m.
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom? Thomas Long	Date and Hour: RCVD FEB 7 '14	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. OIL CONS. DIV. DIST. 3	

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.* An area of approximately 20 feet long by 8 feet wide was affected. Approximately fifteen (15) cubic yards of impacted soil was transported to a NMOCD land farm facility. A "final" c-141 will be submitted upon receipt of the 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: 5/2/14	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 2-4-14	Phone: (713)381-6684	

* Attach Additional Sheets If Necessary

#NCS 141225 7265

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 27-5 #133	Facility Type: Well Site Meter Run/Meter Tube	
Surface Owner: Private	Mineral Owner: BLM	API No.

LOCATION OF RELEASE

Unit Letter L	Section 19	Township 27N	Range 5W	Feet from the	North/South Line	Feet from the	East/West Line	County Rio Arriba
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Latitude 36.556201 Longitude -107.405557

NATURE OF RELEASE

Type of Release: Natural gas and condensate liquids	Volume of Release: 448 MCF	Volume Recovered: To Be Determined
Source of Release: Natural gas meter tube/meter run	Date and Hour of Occurrence: 12/17/2013 @ 1:10 a.m	Date and Hour of Discovery: 12/17/2013 @ 1:10 a.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 and Jonathan Kelly NMOCD	
By Whom? Thomas Long	Date and Hour 12/19/2013 3:27 p.m.	RCVD JAN 6 '14
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. OIL CONS. DIV. DIST. 3	

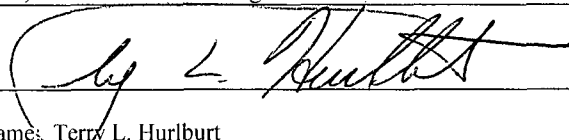
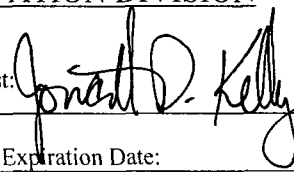
If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* A technician discovered a meter run leak on the San Juan 27-5 #133. The leak was due to a water freeze in the meter run. Technician closed the upstream and downstream valves and blew the meter run down, also blew down the well-tie line and LOTO was applied.

Describe Area Affected and Cleanup Action Taken.*

An area of approximately 2800 square feet was impacted from mist associated with the release. Remediation activities are scheduled for the week of December 30, 2013. A "final" c-141 will be submitted once corrective action report has been completed.

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: Terry L. Hurlburt	Approved by Environmental Specialist: 	
Title: Group Sr. Vice President	Approval Date: <u>6/18/2014</u>	Expiration Date:
E-mail Address: snolan@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 12/30/2013 Phone: 713-381-6595		

* Attach Additional Sheets If Necessary

njk1416930295

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 L	Section 14	Township 24N	Range 5W	Feet from the	North/South Line	Feet from the	East/West Line	County Rio Arriba
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Latitude **36.3084** Longitude **-107.3368**

NATURE OF RELEASE

Type of Release: Natural gas, condensate liquids, paraffin/oil	Volume of Release: 18 mcf	Volume Recovered: To Be Determined
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.*

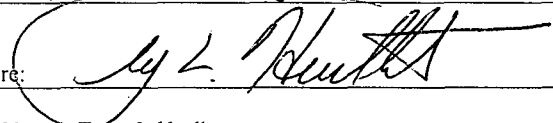
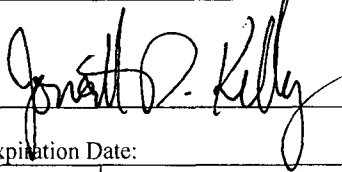
Describe Cause of Problem and Remedial Action Taken.* Measurement Technician discovered a leaking flange on the A New Dawn DKGL meter run. Technicians isolated the meter run and the well tie line to the dogleg. Lock out and tag out (LOTO) was applied.

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Describe Area Affected and Cleanup Action Taken.*

An area of approximately 40 feet long by 20 feet wide was impacted. Remediation activities are scheduled for December 30, 2013. All impacted soils will be disposed of at a NMOCD approved landfarm. A "final" c-141 will be submitted once corrective action report has been completed.

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: Terry L. Hurlburt	Approved by Environmental Specialist: 	
Title: Group Sr. Vice President	Approval Date: 6/18/2014	Expiration Date:
E-mail Address: snolan@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 12/30/2013 Phone: 12/30/2013		

* Attach Additional Sheets If Necessary

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