3R-1011

Release Report/ General Correspondence

Enterprise SJ

Date: Jul-Sep 2013

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

Revised August 8, 2011 Submit 1 Copy to appropriate District Office in

Form C-141

accordance with 19.15.29 NMAC.

Release Notification and Corrective Action OPERATOR Initial Report Final Report Name of Company Enterprise Field Services Contact: Runell Seale / Jim Lieb Address 614 Reilly Ave., Farmington, NM 87401 Telephone No. 505-599-2124 / 505-599-2159 Facility Name Lateral 2A-3 Gathering Line Facility Type: Natural gas gathering line Surface Owner: BLM Mineral Owner BLM API No. LOCATION OF RELEASE Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County D 27 27N 10W San Juan

Latitude_N 36.55191 _ Longitude_W 107.88884 (Decimal Degrees) ___ NATURE OF RELEASE Type of Release: Natural Gas Pipeline Release Volume of Release Unknown Volume Recovered: Approximately 51 cubic vards of contaminated soil was removed from the location. Source of Release: Corrosion hole Date and Hour of Occurrence: Date and Hour of Discovery Unknown 7.11.2013 @ 15:00 hours Was Immediate Notice Given? If YES, To Whom? RCVD SEP 30 '13 ☐ Yes ☐ No ☒ Not Required OIL CONS. DIV By Whom? Date and Hour Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. DIST. 3 ☐ Yes ☒ No If a Watercourse was Impacted, Describe Fully,* Describe Cause of Problem and Remedial Action Taken.* Enterprise gas control was notified of a possible line leak from a third party. Enterprise Operations responded to the reported location and verified the leak, isolated the pipeline, and coordinated for repairs. Contractor and Enterprise Operations/Environmental worked to mitigate the release location by removing the stained soil on the surface of the pipe release location until permanent Describe Area Affected and Cleanup Action Taken.* Enterprise Environmental was dispatched to the location to verify that water/condensate mix released from the pipe leak was mitigated prior to equipment arrival. A third party environmental contractor was dispatched to the leak location upon successful repairs and provided cleanup guidance. Approximately 51 cubic yards of contaminated soil was hauled to an OCD permitted land farm facility to achieve closure standards. 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. OIL CONSERVATION DIVISION Signature: Approved by Environmental Specialist: Printed Name: Jon Fields **Expiration Date:** Title: Director, Field Environmental Conditions of Approval: E-mail Address: jefields@eprod.com Attached \square

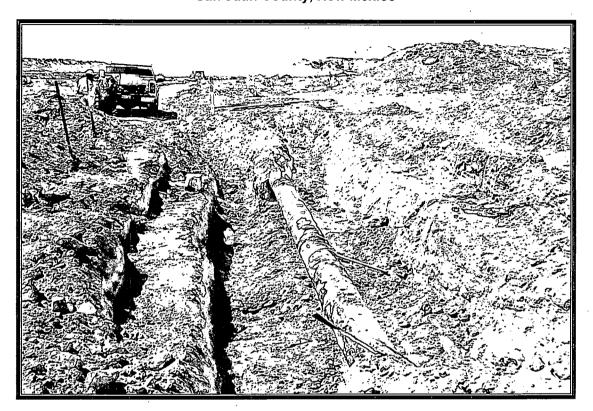
Phone: 832-501-4078

nJX 1329652126

^{*} Attach Additional Sheets If Necessarv

Enterprise Products Lateral 2A-3 Pipeline Release Latitude North 36.55191, Longitude West -107.88884 NW1/4, NW1/4 Section 27 T27N R10W San Juan County, New Mexico

RCVD SEP 30 '13 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 2101 San Juan Boulevard Farmington, NM 87401 (505)325-7535



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1.0 Executive Summary

On July 16, 2013, Souder, Miller & Associates (SMA) responded to a hydrocarbon release associated with the Lateral 2A-3 pipeline. On August 7, 2013, SMA sampled a wash that was located to the north of the main excavation associated with the release. The table below summarizes information about the release and remediation activities.

	TABLE 1:	RELEASE INFOR	MATION					
Name		Lateral 2A-3	Pipeline Release					
	Latitude	e/Longitude	Section, Tow	nship, Range				
Location	36.55191	-107.88884	Unit D NW ¼ NW ¼ Section 27	T 27 N, R 10 W				
Date Reported	July 11, 2013							
	Aaron Dailey			,				
Land Owner		d Management (BL						
Reported To	New Mexico O	il Conservation Div	ision (NMOCD) and	BLM				
Diameter of Pipeline	14 inches							
Source of Release	e Internal Corrosion							
Release Contents	Natural Gas Li	quids/Condensate						
Release Volume	Unknown							
Nearest Waterway	Kutz Wash							
Depth to Groundwater	Assumed to be	less than 50 feet						
Nearest Domestic Water Source	Greater than 2	00 feet						
NMOCD Ranking	30							
SMA Response Dates	July 16, 2013 8	& August 7, 2013						
Subcontractors	Energy Mainte	nance Services (EN	MS)					
Disposal Facility	Envirotech Lar	ıdfarm						
Yd³ Contaminated Soil Excavated and Disposed	51							

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 Lateral 2A-3 pipeline. The Lateral 2A-3 pipeline release was a result of internal corrosion of the steel pipeline. The release was reported on July 11, 2013. The pipeline is located in Unit D (NW ¼, NW ¼) Section 27, Township 27 North, Range 10W, 36.55191, -107.88884, San Juan County, New Mexico. Figure 1, Vicinity Map, illustrates the location of the release.

3.0 Site Ranking and Land Jurisdiction

The release site is located approximately 300 feet northeast of Kutz Wash with an elevation of approximately 6,151 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 were located in sections 15, 16, or 27. This release location has been assigned a NMOCD ranking of 30. The physical location of this release is within the jurisdiction of the BLM and NMOCD and requires soil remediation to below 10 parts per million (ppm) benzene, 50 ppm total 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 July 16, 2013, under the supervision of SMA, EMS excavated the hydrocarbon impacted soil while making repairs to the Lateral 2A-3 pipeline. SMA personnel guided the excavation activities by collecting soil samples for field screening with a calibrated photo-ionization detector (PID). Table 3 summarizes the field screening results. After field screening results indicated that the hydrocarbon impacted soil had been removed, SMA collected five composite soil samples for laboratory analysis. SMA also collected a composite sample from the southern portion of a small wash located to the west of the main excavation.

On August 7, 2013, SMA returned to sample the northern portion and below the convergence of the north and south portions of the wash located to the west of the main excavation associated with the release. A total of five composite soil samples were collected from this wash. 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 2 illustrates the extent of the excavation and composite soil sample locations.

The final excavation dimensions were approximately 40 feet long by 14 feet wide by 4 feet deep. Field notes are included in Appendix A. Site photography is included in Appendix B. Approximately 51 cubic yards of hydrocarbon contaminated soil were excavated and transported by EMS to Envirotech Land Farm near Bloomfield, New Mexico for proper disposal. Soil disposal documentation is included in Appendix C. Clean imported soil was transported to the site and used as backfill.

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. Based on laboratory

analysis, all of the soil samples collected were either below laboratory detection limits or below NMOCD soil remediation standards. Soil contaminant concentrations are illustrated in Figure 2. 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 and stabilization, regulatory liaison, oversight and control of remediation operations, disposal arrangements and documentation, project management, and preparation of this summary report. All work has been performed in accordance with generally accepted professional environmental consulting practices.

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

Submitted by:

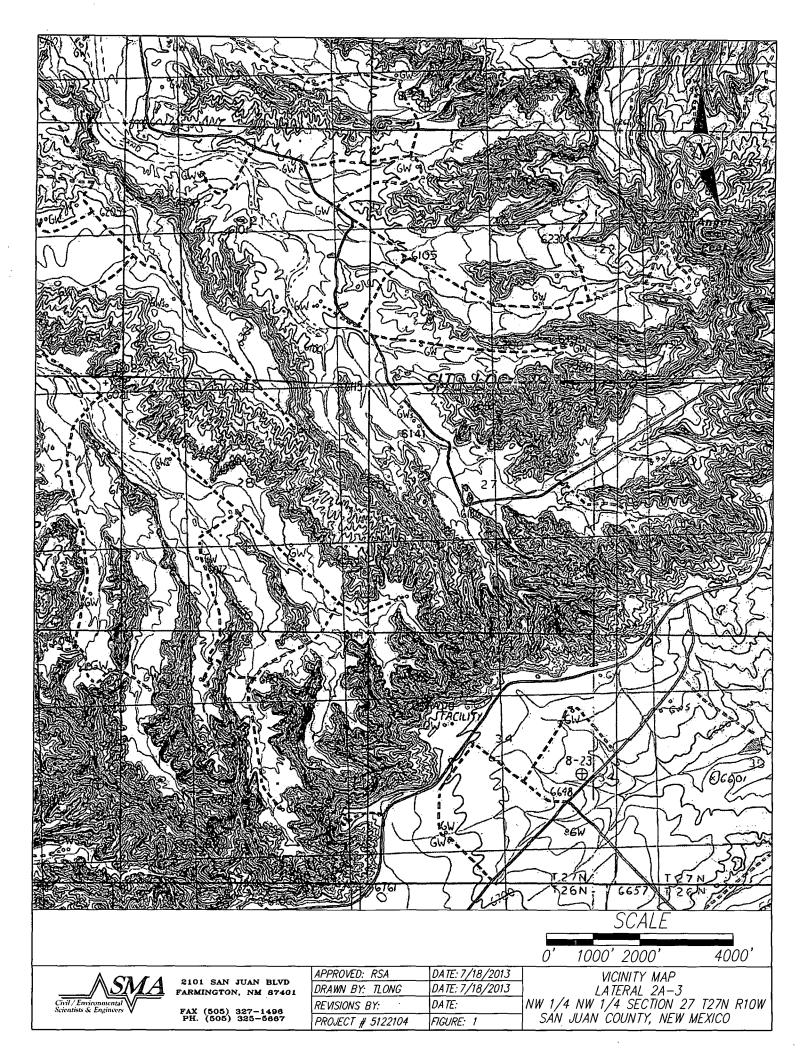
Reviewed by:

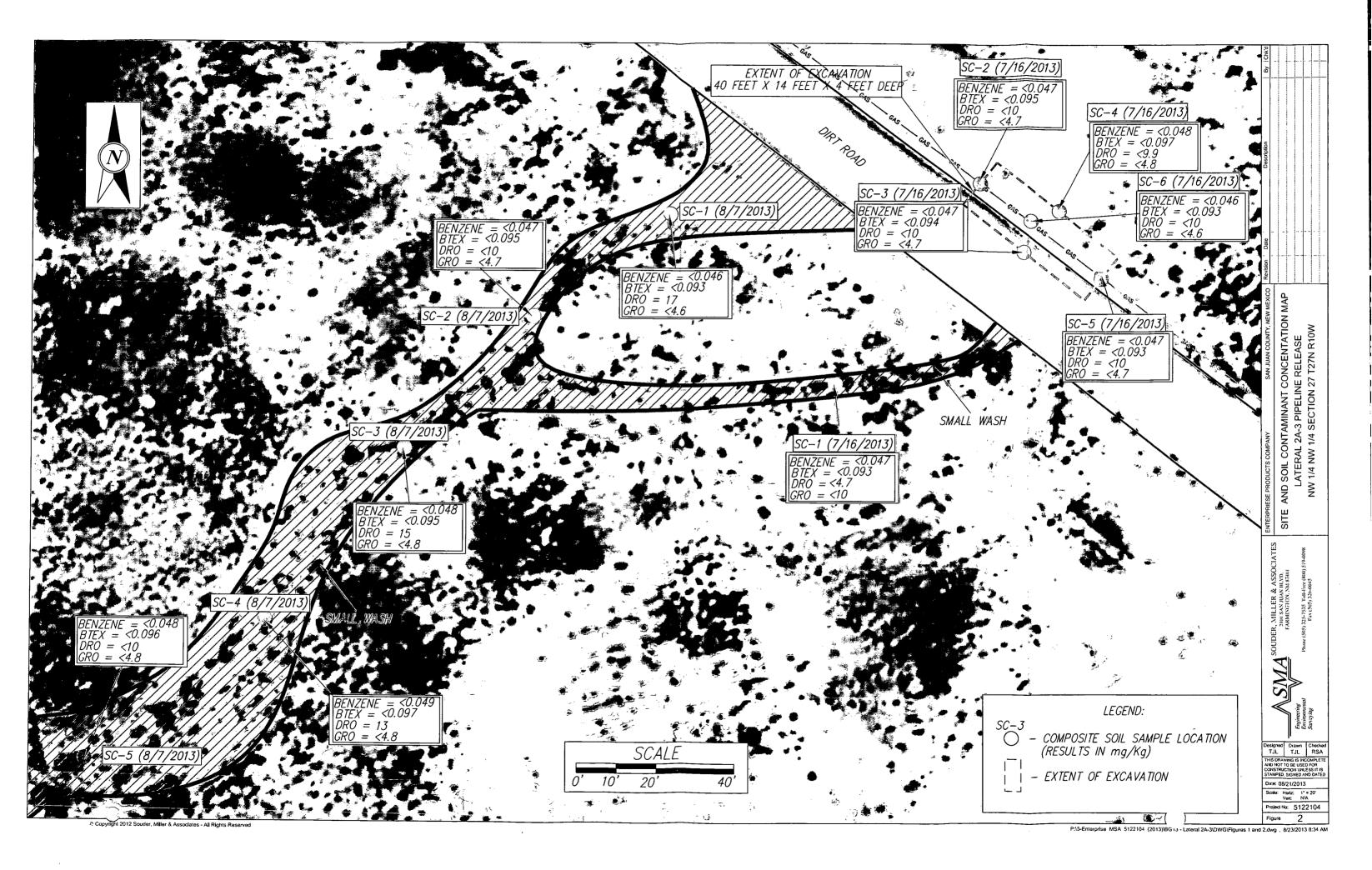
SOUDER, MILLER & ASSOCIATES

Morros J. Laz

Thomas J. Long Project Scientist

Reid S. Allan, PG Principal Scientist





Depth to Groundwater	NMOCD Numeric Rank for this Site	Source for Ranking	Notes
< 50 BGS = 20	20	USGS Topo Maps; Google Earth Elevation Difference	Kutz Wash is located approximately 300 feet
50' to 99' = 10 >100' = 0		from the site and the unamed wash to the north	to the southwest; Site elevation is approximately 10 feet above Kutz Wash
Ranking Criteria for Horizontal Distance to Nearest Surface Water	NMOCD Numeric Rank for this Site	Source for Ranking	Notes
< 200' = 20		USGS Topo Maps; Google	Kutz Wash is located
200'-1000' = 10	10	Earth (An unnamed wash ~600' to the north); PRCC Mapping Tool	approximately 300 feet to the southwest
>1000' 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	NM State Engineer Water Well Database	No Wells in Sections 15, 16 and 27
Total Site Ranking	30		
Soil Remedation Standards	0 to 9	10 to 19	>19
Benzene	10 PPM	10 to 19	10 PPM
BTEX	50 PPM	50 PPM	50 PPM
TPH	5000 PPM	1000 PPM	100 PPM



		FIELD SCREENING RE	SULTS SUMMA	RY	
Date	Time	Field Screening Reference	Sample Depth (Feet BGS)	PID Results	Lab Sample Collected Y/N
7/16/2013	13:10	S-1 (small wash)	0.5	0.8	N
7/16/2013	13:11	S-2 (small wash)	0.5	0.2	N
7/16/2013	13:12	S-3 (small wash)	0.5	0.2	N
7/16/2013	13:15	SC-1 (small wash)	0.5	0.3	Υ
7/16/2013	14:05	S-4/SC-2	0-4	13.3	Υ
7/16/2013	14:06	S-5/SC-3	0-4	28.3	Υ
7/16/2013	14:07	S-6/SC-4	0-4	83.4	Υ
7/16/2013	15:00	S-7/SC-5	0-4	9.9	Υ
7/16/2013	15:03	S-8/SC-6 (Base)	4	149.0	Υ
8/7/2013	14:10	SC-1	0.5	0.5	Υ
8/7/2013	14:11	SC-2	0.5	0.7	Υ
8/7/2013	14:12	SC-3	0.5	0.3	Υ
8/7/2013	14:13	SC-4	0.5	0.2	Υ
8/7/2013	14:14	SC-5	0.5	0.5	Y



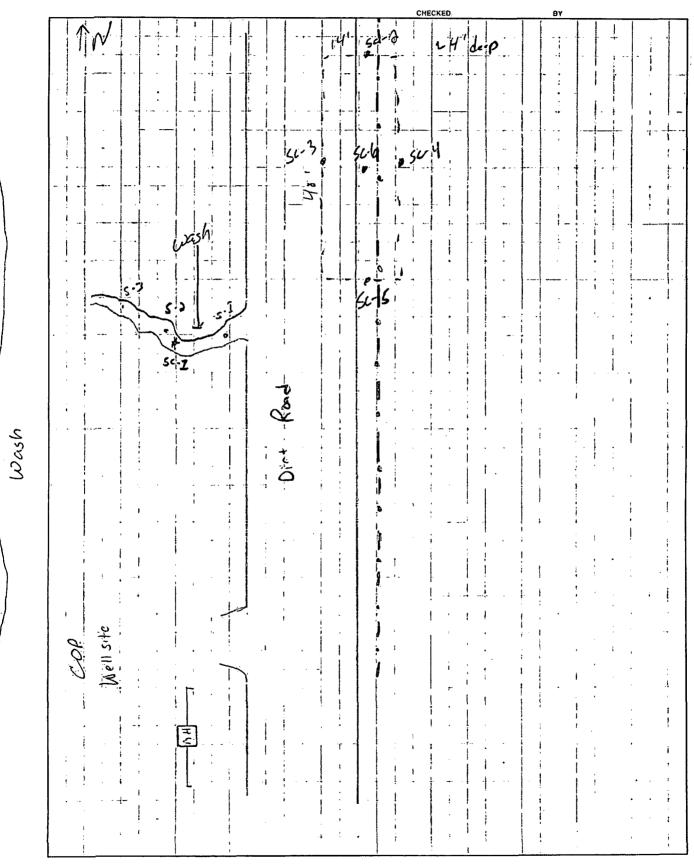
		LABORATORY ANAL	YTICAL SUM	MARY			
Date	Time	Sample ID	Sample Depth (Feet BGS)	Method 8015 GRO	Method 8015 DRO	Method 8021 Benzene	Method 8021 BTEX
7/16/2013	13:15	SC-1 (Small Wash)	0.5	<4.7	<10	<0.047	<0.093
7/16/2013	14:05	SC-2	0-4	<4.7	<10	<0.047	<0.095
7/16/2013	14:06	SC-3	0-4	<4.7	<10	<0.047	<0.094
7/16/2013	14:07	SC-4	0-4	<4.8	<9.9	<0.048	<0.097
7/16/2013	15:00	SC-5	0-4	<4.7	<10	<0.047	<0.093
7/16/2013	15:03	SC-6	4	<4.6	<10	<0.046	<0.093
8/7/2013	14:10	SC-1	0.5	<4.6	17	<0.046	<0.093
8/7/2013	14:11	SC-2	0.5	<4.7	<10	<0.047	<0.095
8/7/2013	14:12	SC-3	0.5	<4.8	15	<0.048	<0.095
8/7/2013	14:13	SC-4	0.5	<4.8	13	<0.049	<0.097
8/7/2013	14:14	SC-5	0.5	<4.8	<10	<0.048	<0.096



CLIENT EMERATISE

Mesa

DATE 7./6-13 BY 73L



CLIENT ENTERPRISE DATE 7-16-13 BY 7.71

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5-3 0,2 131			
S-3 0.2 1312 S-3 0.2 1312			
SC-7. (Wash c 0.5') 1315 0.			1 1
			6 Samples
	8.3 ppn - 5c -0 8.3 ppn - 5c -3		
5-6 (E wall Forp) 1407 E	33.4 ppm SC-4		
	19 ppm SC-5		
5-8 (Base C H' > 1503	149 ppm 50-6		:
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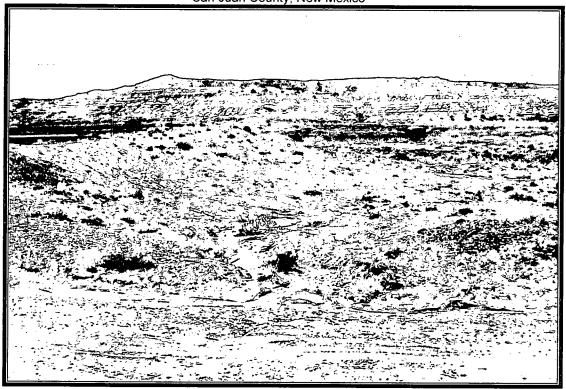


Photo 1: View of the small wash across the road from the Lateral 2A-3 excavation.

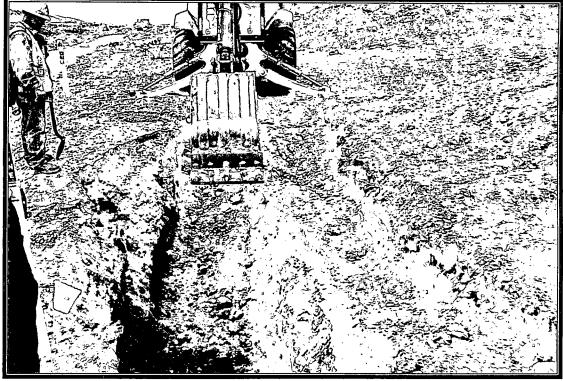


Photo 2: View of the excavation for the Lateral 2A-3 pipeline release.



Photo 3: View of the excavation and the Lateral 2A-3 pipeline.



Photo 4: View of the excavation and the Lateral 2A-3 pipeline.

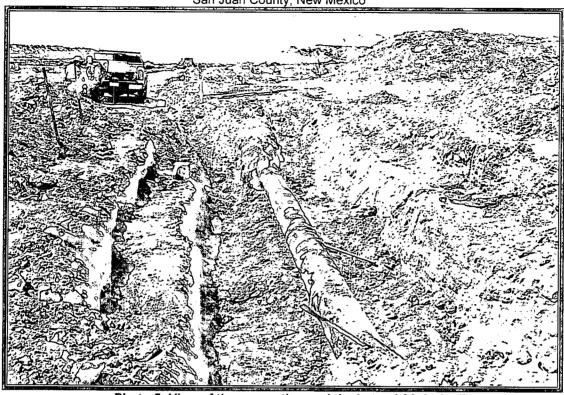


Photo 5: View of the excavation and the Lateral 2A-3 pipeline.



Photo 6: View of the excavation and the Lateral 2A-3 pipeline.

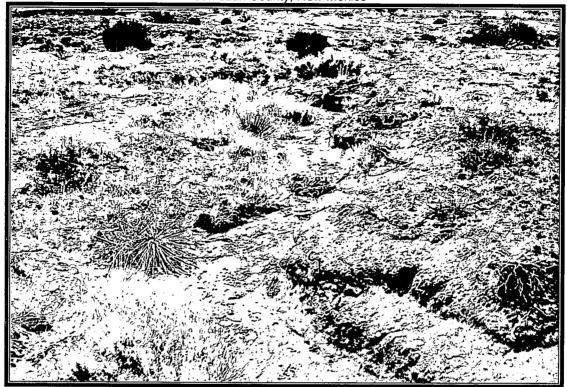


Photo 7: View of the northern wash that was sampled.

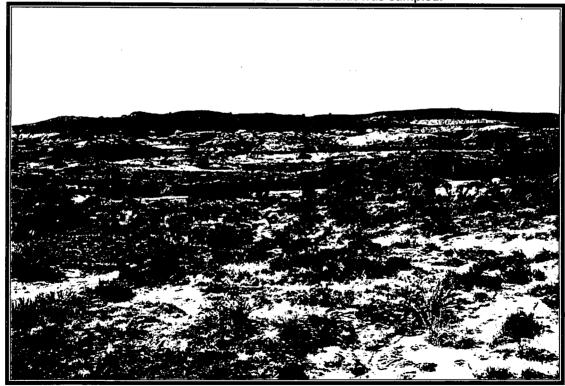


Photo 8: View of the northern wash that was sampled.



RESULTS:

Bill of Lading

MANIFEST # 44175

NOTES:

DATE 7-16-13 JOB #1057-0573

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401 COMPLETE DESCRIPTION OF SHIPMENT TRANSPORTING COMPANY LOAD NO. DRIVER SIGNATURE POINT OF ORIGIN **DESTINATION MATERIAL GRID** TIME **YDS** BBLS **COMPANY** TRK# ENHEPRISC SINDGE Cont Soil 320-EMS CA+ 21-3 Pixcline 010 16:35 Tolers

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	ertify the material hauled from the above location has no additional material has been added or mixed in NAME Robert Fire Company of the Processing	ot been added to or tampered with. I certify the material is from the above into the load. SIGNATURE
COMPANY CONTACT Mike Son Signatures required prior to distribution	chez PHONE 505-793-4	SIGNATURE Robert Flores 426 DATE 7-16-13

LANDFARM



Bill of Lading

MANIFEST # 44186

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401 COMPLETE DESCRIPTION OF SHIPMENT TRANSPORTING COMPANY LOAD NO. POINT OF ORIGIN **DESTINATION** MATERIAL **GRID** YDS **BBLS COMPANY** TRK# TIME DRIVER SIGNATURE

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COMPANY	CONTACT Mits Sand	hez	PHONE 5	05)333 -	7083		DATE	17-1.	3		

Signatures required prior to distribution of the legal document. White - Company Records, Yellow - Billing, Pink - Customer san juan reproduction 578-126



Bill of Lading

MANIFEST # 44187

DATE 7-12-13 JOB # 7057-0573

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	PAINT FILTER TEST		cation of above red								
mentione	igning as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above tioned Generator/Point of Origin and that no additional material has been added or mixed into the load.										
TRANSPO	ANSPORTER CO. TMS NAME Regneral TSUSU SIGNATURE Regular TSUSU DATE 7-17-13 PHONE 505) 338-2003 DATE 7-17-13										
COMPANY	CONTACT Mike Same	cher	PHONE S	05) 335	-2003		DATE	_/7_	13		
Sianature	s required prior to distribution	on of the legal docu	ment.	_			·				



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

Bill of Lading

MANIFEST# 44188

DATE <u>フ・/フ - / 3</u>

JOB#17057-0573

LOAD	COMF		TON OF SHIPMEN			·	TRANSPO	PRTING	COMPAN	NY	
NO.	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE	
2	saterprise/Ems Lat 2A-3 PirEline	LFI	Sor	2-3	10		YUCCA	AFLe	12:70	Belle	
2	O A	ી ન	A C	2-3	10	_	YULLA	AFY	15:20	denun	
3	u u	u G	u U	2-3	10		YUCCA	,	15:20	Kentfkin	
				_	7		,				
					20						
		· · ·									
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- · - · - · - · - · - · - · · - · · ·	·						<u> </u>				
					1 -	10					
RESULTS	S: CHLORIDE TEST	LANDFARM EMPLOYEE:	Iffen				NOTES:				
	PAINT FILTER TEST / Certification of above receival & placement										
mentioned	g as the driver/transporter, I od Generator/Point of Origin a	nd that no addition	al material has be	en added o	r mixed into	the load	d.	,	ertify the	material is from the above	
	RTER CO. Yucca W							_#	und	Kon	
COMPANY	CONTACT Heavy A	rmenta	PHONE				DATE	7~ 17	-13		



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

Bill of Lading

MANIFEST# 44189

DATE 2-17-13 JOB #17057-0573

COMPLETE DESCRIPTION OF SHIPMENT TRANSPORTING COMPANY LOAD NO. POINT OF ORIGIN DESTINATION **MATERIAL GRID YDS DRIVER SIGNATURE BBLS COMPANY** TIME TRK# ENKAPESE/EMS CKAN 10 1 ad 24-3PIPELINE FILL **RESULTS:** NOTES: LANDFARM CHLORIDE TEST **EMPLOYEE:** PAINT FILTER TEST Certification of above receival & placement By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load. TRANSPORTER CO. Yucca Welling & Excau, NAME Real Roge/5 SIGNATURE PHONE DATE 7-17-13

Signatures required prior to distribution of the legal document.



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

July 25, 2013

Thomas Long Souder, Miller and Associates 2101 San Juan Boulevard Farmington, NM 87401 TEL: (505) 325-7535

FAX

RE: Lateral 2A-3

OrderNo.: 1307865

Dear Thomas Long:

Hall Environmental Analysis Laboratory received 6 sample(s) on 7/18/2013 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 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

Lab Order 1307865

Date Reported: 7/25/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: SC-1 0.5'

Project: Lateral 2A-3

Collection Date: 7/16/2013 1:15:00 PM

Lab ID: 1307865-001

Matrix: SOIL

Received Date: 7/18/2013 10:00:00 AM

Analyses	Result	RL Qı	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	SE ORGANICS		<u>-</u>		Analys	t: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	7/22/2013 2:21:20 PM	8427
Surr: DNOP	108	63-147	%REC	1	7/22/2013 2:21:20 PM	8427
EPA METHOD 8015D: GASOLINE R.	ANGE				Analys	t: DAM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/22/2013 2:55:43 PM	8464
Surr: BFB	98.6	80-120	%REC	1	7/22/2013 2:55:43 PM	8464
EPA METHOD 8021B: VOLATILES					Analys	t: DAM
Benzene	ND	0.047	mg/Kg	1	7/22/2013 2:55:43 PM	8464
Toluene	ND	0.047	mg/Kg	1	7/22/2013 2:55:43 PM	8464
Ethylbenzene	ND	0.047	mg/Kg	1	7/22/2013 2:55:43 PM	8464
Xylenes, Total	. ND	0.093	mg/Kg	1	7/22/2013 2:55:43 PM	8464
Surr: 4-Bromofluorobenzene	96.6	80-120	%REC	1	7/22/2013 2:55:43 PM	8464

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

Page 1 of 9

P Sample pH greater than 2 for VOA and TOC only.
RL Reporting Detection Limit

Lab Order 1307865

Date Reported: 7/25/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Project: Lateral 2A-3

Lab ID: 1307865-002

Client Sample ID: SC-2 N. Wall 0-4'

Collection Date: 7/16/2013 2:05:00 PM

Received Date: 7/18/2013 10:00:00 AM

Analyses	Result RL Qual Units				Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	SE ORGANICS		· <u>-</u> -		Analys	JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	7/22/2013 2:51:58 PM	8427
Surr: DNOP	84.6	63-147	%REC	1	7/22/2013 2:51:58 PM	8427
EPA METHOD 8015D: GASOLINE RA	ANGE				Analys	t: DAM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/22/2013 3:24:19 PM	8464
Surr: BFB	93.5	80-120	%REC	1	7/22/2013 3:24:19 PM	8464
EPA METHOD 8021B: VOLATILES					Analys	t: DAM
Benzene	ND	0.047	mg/Kg	1	7/22/2013 3:24:19 PM	8464
Toluene	ND	0.047	mg/Kg	1	7/22/2013 3:24:19 PM	8464
Ethylbenzene	ND	0.047	mg/Kg	1	7/22/2013 3:24:19 PM	8464
Xylenes, Total	ИD	0.095	mg/Kg	1	7/22/2013 3:24:19 PM	8464
Surr: 4-Bromofluorobenzene	95.8	80-120	%REC	1	7/22/2013 3:24:19 PM	8464

Matrix: SOIL

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
 - Page 2 of 9
 - P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Lab Order 1307865

Date Reported: 7/25/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: SC-3 W. Wall 0-4'

Project: Lateral 2A-3

Collection Date: 7/16/2013 2:06:00 PM

Lab ID: 1307865-003

Matrix: SOIL

Received Date: 7/18/2013 10:00:00 AM

Analyses	Result RL Qual Units		DF	Date Analyzed	Batch	
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analys	t: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	7/22/2013 3:22:36 PM	8427
Surr: DNOP	101	63-147	%REC	1	7/22/2013 3:22:36 PM	8427
EPA METHOD 8015D: GASOLINE RA	NGE			•	Analys	t: DAM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/22/2013 3:52:56 PM	8464
Surr: BFB	93.4	80-120	%REC	1	7/22/2013 3:52:56 PM	8464
EPA METHOD 8021B: VOLATILES					Analys	t: DAM
Benzene	ND	0.047	mg/Kg	1	7/22/2013 3:52:56 PM	8464
Toluene	ND	0.047	mg/Kg	1	7/22/2013 3:52:56 PM	8464
Ethylbenzene	ND	0.047	mg/Kg	1	7/22/2013 3:52:56 PM	8464
Xylenes, Total	ND	0.094	mg/Kg	1	7/22/2013 3:52:56 PM	8464
Surr: 4-Bromofluorobenzene	95.4	80-120	%REC	1	7/22/2013 3:52:56 PM	8464

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 Page 3 of
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Lab Order 1307865

Date Reported: 7/25/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: SC-4 E. Wall 0-4'

Project: Lateral 2A-3

Collection Date: 7/16/2013 2:07:00 PM

Lab ID: 1307865-004

Matrix: SOIL

Received Date: 7/18/2013 10:00:00 AM

Analyses	Result RL Qual Units		DF	Date Analyzed	Batch	
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analys	t: JME
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	7/22/2013 3:53:25 PM	8427
Surr: DNOP	117	63-147	%REC	1	7/22/2013 3:53:25 PM	8427
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: DAM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/23/2013 12:15:10 Pf	√ 8464
Surr: BFB	91.8	80-120	· %REC	1	7/23/2013 12:15:10 PI	√ 8464
EPA METHOD 8021B: VOLATILES					Analys	t: DAM
Benzene .	ND	0.048	mg/Kg	1	7/23/2013 12:15:10 PI	√ 8464
Toluene	ND	0.048	mg/Kg	1	7/23/2013 12:15:10 PI	√ 8464
Ethylbenzene	ND	0.048	mg/Kg	1	7/23/2013 12:15:10 Pf	A 8464
Xylenes, Total	ND	0.097	mg/Kg	1	7/23/2013 12:15:10 PI	√ 8464
Surr: 4-Bromofluorobenzene	93.4	80-120	%REC	1	7/23/2013 12:15:10 PI	√ 8464

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

Page 4 of 9

- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Lab Order 1307865

Date Reported: 7/25/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Project: Lateral 2A-3

1307865-005 Lab ID:

Client Sample ID: SC-5 S. Wall 0-4'

Collection Date: 7/16/2013 3:00:00 PM

Received Date: 7/18/2013 10:00:00 AM

Analyses	Result	Result RL Qual Units		DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	SE ORGANICS		·		Analys	t: JME
Diesel Range Organics (DRO)	· ND	10	mg/Kg	1	7/22/2013 4:24:01 PM	8427
Surr: DNOP	101	63-147	%REC	1	7/22/2013 4:24:01 PM	8427
EPA METHOD 8015D: GASOLINE RA	ANGE				Analys	t: DAM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/22/2013 9:36:05 PM	8464
Surr: BFB	90.9	80-120	%REC	·1	7/22/2013 9:36:05 PM	8464
EPA METHOD 8021B: VOLATILES					Analys	t: DAM
Benzene	ND	0.047	mg/Kg	1	7/22/2013 9:36:05 PM	8464
Toluene	ND	0.047	mg/Kg	1	7/22/2013 9:36:05 PM	8464
Ethylbenzene	ND	0.047	mg/Kg	1	7/22/2013 9:36:05 PM	8464
Xylenes, Total	ND	0.093	mg/Kg	1	7/22/2013 9:36:05 PM	8464
Surr: 4-Bromofluorobenzene	93.2	80-120	%REC	1	7/22/2013 9:36:05 PM	8464

Matrix: SOIL

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- Analyte detected below quantitation limits
- o RSD is greater than RSDlimit
- RPD outside accepted recovery limits

- Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Sample pH greater than 2 for VOA and TOC only. P
- Reporting Detection Limit

Lab Order 1307865

Date Reported: 7/25/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: SC-6 Base @4'

Lateral 2A-3 Project:

Collection Date: 7/16/2013 3:03:00 PM

1307865-006 Lab ID:

Matrix: SOIL

Received Date: 7/18/2013 10:00:00 AM

Analyses	Result RL Qual Units		DF	Date Analyzed	Batch	
EPA METHOD 8015D: DIESEL RANG	E ORGANICS	٠			Analys	st: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	7/22/2013 4:54:41 PM	8427
Surr: DNOP	92.2	63-147	%REC	1	7/22/2013 4:54:41 PM	8427
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	st: DAM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	7/22/2013 11:01:52 P	M 8464
Surr: BFB	91.4	80-120	%REC	1	7/22/2013 11:01:52 P	M 8464
EPA METHOD 8021B: VOLATILES					Analys	st: DAM
Benzene	ND	0.046	mg/Kg	1	7/22/2013 11:01:52 P	M 8464
Toluene	ND	0.046	mg/Kg	1	7/22/2013 11:01:52 P	M 8464
Ethylbenzene	ND	0.046	mg/Kg	1	7/22/2013 11:01:52 P	M 8464
Xylenes, Total	ND	0.093	mg/Kg	1	7/22/2013 11:01:52 P	M 8464
Surr: 4-Bromofluorobenzene	94.0	80-120	%REC	1	7/22/2013 11:01:52 P	M 8464

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Ε Value above quantitation range
- Analyte detected below quantitation limits
- О RSD is greater than RSDlimit
- RPD outside accepted recovery limits

- Analyte detected in the associated Method Blank В
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Not Detected at the Reporting Limit Page 6 of 9 Sample pH greater than 2 for VOA and TOC only. Ρ
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1307865

25-Jul-13

Client:

Souder, Miller and Associates

Project:

Lateral 2A-3

Sample ID MB-8427	SampT	уре: М Е	BLK	Tes	TestCode: EPA Method 8015D: Diesel Range Organics								
Client ID: PBS	Batch	Batch ID: 8427 RunN				No: 12086							
Prep Date: 7/17/2013	Analysis D	ate: 7/	22/2013	SeqNo: 343714 L			Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Diesel Range Organics (DRO)	ND	10											
Surr: DNOP	9.2		10.00		92.3	63	147						

Sample ID LCS-8427	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Diese	el Range C	Organics	
Client ID: LCSS	Batch	Batch ID: 8427			RunNo: 1	2086				
Prep Date: 7/17/2013	Analysis D	ate: 7/	22/2013	SeqNo: 343814		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	97.0	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

Page 7 of 9

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1307865

25-Jul-13

Client:

Souder, Miller and Associates

Project: Lateral	1 2A-3	
Sample ID MB-8464	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range
Client ID: PBS	Batch ID: 8464	RunNo: 12092
Prep Date: 7/19/2013	Analysis Date: 7/22/2013	SeqNo: 344247 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 5.0 930 1000	92.6 80 120
Sample ID LCS-8464	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range
Client ID: LCSS	Batch ID: 8464	RunNo: 12092
Prep Date: 7/19/2013	Analysis Date: 7/22/2013	SeqNo: 344248 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	101 80 120
Sample ID MB-8488	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range
Client ID: PBS	Batch ID: 8488	RunNo: 12124
Prep Date: 7/22/2013	Analysis Date: 7/23/2013	SeqNo: 345356 Units: %REC
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: BFB	1200 1000	116 80 120

Qualifiers:

Value exceeds Maximum Contaminant Level.

Е Value above quantitation range

Analyte detected below quantitation limits

o RSD is greater than RSDlimit

RPD outside accepted recovery limits

Analyte detected in the associated Method Blank В

Holding times for preparation or analysis exceeded H

ND Not Detected at the Reporting Limit

Sample pH greater than 2 for VOA and TOC only.

Reporting Detection Limit

Page 8 of 9

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1307865

25-Jul-13

Client:

Souder, Miller and Associates

Project:

Lateral 2A-3

Project: Lateral	ZA-3	<u> </u>							
Sample ID MB-8464	SampType: MBLK	TestCode: EPA Method	8021B: Volatiles						
Client ID: PBS	Batch ID: 8464	RunNo: 12092							
Prep Date: 7/19/2013	Analysis Date: 7/22/2013	SeqNo: 344510	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	0.96 1.000	96.3 80	120						
Sample ID LCS-8464	SampType: LCS	TestCode: EPA Method	8021B: Volatiles						
Client ID: LCSS	Batch ID: 8464	RunNo: 12092							
Prep Date: 7/19/2013	Analysis Date: 7/22/2013	SeqNo: 344511	Units: mg/Kg						
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual					
Benzene	1.0 0.050 1.000	0 101 80	120						
Toluene	1.0 0.050 1.000	0 101 80	120						
Ethylbenzene	1.0 0.050 1.000	0 100 80	120						
Xylenes, Total	3.0 0.10 3.000	0 102 80	120						
Surr: 4-Bromofluorobenzene	1.0 1.000	100 80	120						
Sample ID MB-8488	SampType: MBLK	TestCode: EPA Method	TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 8488	RunNo: 12124							
Prep Date: 7/22/2013	Analysis Date: 7/23/2013	SeqNo: 345371	Units: %REC						
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual					
Surr: 4-Bromofluorobenzene	0.98 1.000	98.0 80	120	· · · · · · · · · · · · · · · · · · ·					
Sample ID LCS-8488	SampType: LCS	TestCode: EPA Method	8021B: Volatiles						
Client ID: LCSS	Batch ID: 8488	RunNo: 12124	RunNo: 12124						
Prep Date: 7/22/2013	Analysis Date: 7/23/2013	SeqNo: 345372	Units: %REC						
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual					
Surr: 4-Bromofluorobenzene	1.1 1.000	111 80	120						

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range

- Analyte detected below quantitation limits
- RSD is greater than RSDlimit $^{\rm o}$
- RPD outside accepted recovery limits

- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit

- Sample pH greater than 2 for VOA and TOC only.
- Reporting Detection Limit

Page 9 of 9



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 Orden Number: 1307865 RcptNo: 1 Received by/date: Logged By: Lindsay Mangin 7/18/2013 10:00:00 AM Completed By: 7/18/2013 1:49:22 PM Lindsay Mangin Reviewed By: Chain of Custody Yes 🗌 No 🗀 Not Present 1. Custody seals intact on sample bottles? No 🗌 Yes 🗸 Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In NA 🗌 Yes 🗹 No 🗌 4. Was an attempt made to cool the samples? No 🗆 NA 🗌 5. Were all samples received at a temperature of >0° C to 6.0°C Yes 🗹 No 🗌 Yes 🗹 6. Sample(s) in proper container(s)? 7. Sufficient sample volume for indicated test(s)? Yes 🔽 Yes 🗹 8. Are samples (except VOA and ONG) properly preserved? No V NA \square Yes 🗌 9. Was preservative added to bottles? No 🗌 No VOA Vials 🗹 Yes 🗍 10.VOA vials have zero headspace? No 🗹 11. Were any sample containers received broken? # of preserved bottles checked No 🗆 for pH: Yes 🗸 12. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🔲 Yes 🗹 13. Are matrices correctly identified on Chain of Custody? No 🗆 Yes 🗹 14, is it clear what analyses were requested? No 🗆 Checked by: Yes 🗹 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) Yes No 🗆 NA 🗹 16. Was client notified of all discrepancies with this order? Person Notified: Date: Via: eMail Phone Fax In Person By Whom: Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Good

	Chain-of-Custody Record		Turn-Around Time:						-	IΑ		F	NV	TE	2 0	Nh	4Er	ATV	AL.		
Client:	SMA			Standard	□ Rus	sh		200		_		_							TO		
				Project Name	Latere	1 24-3			-`					ironr							
Mailing	Address	2101	Son Juan Blud.			J. , J		49	01 H	awki	ns N	1E -	Alb	uqu	erqu	e, NI	M 87	109			
P	-		87401	Project #:				Te	el. 50	5-34	5-39	975					-4107				
		325-		51	49164						· ·	A	nal	/sis	Req	uest				6.7	
				Project Manager:				ر اح	sel)					04)					Ì		
QA/QC	ackage:	·	☐ Level 4 (Full Validation)	Thomas Long			TMB's (8021)	TPH (Gas only)	sas/Die					,PO ₄ ,S	2 PCB's						
Accredi		□ Othe	r	Sampler: Mornos Long On Ice: DYes In No.			*TMB	+ TPH)15B (C	18.1)	04.1)	PAH)	"	O ₃ ,NO ₂	s / 8082		(X)				or N)
□ EDD (Type)		Sample Tem	perature 🥒			MTBE +)8 p	od 4	8	or	etals	Ž,	cide	(A)	\frac{1}{2}				2		
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservativ Type	/e HEALING 120/1865	BTEX ± MIBE	l +	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)				Air Bubbles (Y or N)
7-16-13	1315	Soil	Sc-1 05'	Yor Jav	Cool	-001	X	1	X												
	1405		SC-2 N. Wall 0-4'			-002	4		x									\Box	,		
\neg	1406		56-3 W. Wall 0-41			-003	14		X												
	1407		Sc-4 E.W. 10-41			-100f	X		X												
	1500		SC-5 S. Walloy'			-005	x		X											$\lceil \cdot \rceil$	
1	1503		5 L-6 Bax e4'	V	4	-000	X		X												
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Date: -17-13	Time:		ones Jurg	Master	Walter	1/11/13 1546	Rei	mark	.s:	3.11	_	To	Er	\to	(Pet	Se					
Date: 7/11/13	Time:	Relinduish	uotre li)ce Len	Received by:	onli	Date Time															
··· / /	f necessary,	samples sub	mitted to Hall Environmental may be subc	entracted to 6ther a			is poss	ibility.	Any sı	np-cou	racte	d data	will be	e dear	ly nota	ated or	n the ar	nalytical	report.		



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

August 15, 2013

Thomas Long
Souder, Miller and Associates
2101 San Juan Boulevard
Farmington, NM 87401

TEL: (505) 325-7535

FAX

RE: Lateral 2A-3

OrderNo.: 1308352

Dear Thomas Long:

Hall Environmental Analysis Laboratory received 5 sample(s) on 8/8/2013 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 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

Lab Order 1308352

Date Reported: 8/15/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Project: Lateral 2A-3

Lab ID: 1308352-001

Client Sample ID: SC-1

Collection Date: 8/7/2013 2:10:00 PM

Received Date: 8/8/2013 9:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS				Analy	st: JME
Diesel Range Organics (DRO)	17	9.9	mg/Kg	1	8/12/2013 9:41:27 PN	1 8796
Surr: DNOP	102	63-147	%REC	1	8/12/2013 9:41:27 PM	1 8796
EPA METHOD 8015D: GASOLINE RA	ANGE				Analy	st: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	8/12/2013 2:14:04 PM	1 8800
Surr: BFB	87.9	80-120	%REC	1	8/12/2013 2:14:04 PM	1 8800
EPA METHOD 8021B: VOLATILES					Analy	st: NSB
Benzene	ND	0.046	mg/Kg	1	8/12/2013 2:14:04 PM	1 8800
Toluene	ND	0.046	mg/Kg	1	8/12/2013 2:14:04 PM	1 8800
Ethylbenzene	ND	0.046	mg/Kg	1	8/12/2013 2:14:04 PM	1 8800
Xylenes, Total	ND	0.093	mg/Kg	1	8/12/2013 2:14:04 PM	1 8800
Surr: 4-Bromofluorobenzene	103	80-120	%REC	1	8/12/2013 2:14:04 PM	1 8800

Matrix: SOIL

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

- 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
- Page 1 of 10
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Lab Order 1308352

Date Reported: 8/15/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Lateral 2A-3

Lab ID: 1308352-002

Project:

Client Sample 1D: SC-2

Collection Date: 8/7/2013 2:11:00 PM

Received Date: 8/8/2013 9:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch			
EPA METHOD 8015D: DIESEL RANG	E ORGANICS			Analyst: J					
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/12/2013 10:46:52 F	M 8796			
Surr: DNOP	105	63-147	%REC	1	8/12/2013 10:46:52 F	M 8796			
EPA METHOD 8015D: GASOLINE RA	NGE				Analy	st: NSB			
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/12/2013 3:39:58 PM	/ 8800			
Surr: BFB	88.6	80-120	%REC	1	8/12/2013 3:39:58 PM	0088 N			
EPA METHOD 8021B: VOLATILES					Analy	st: NSB			
Benzene	ND	0.047	mg/Kg	1	8/12/2013 3:39:58 PM	/ 8800			
Toluene	ND	0.047	mg/Kg	1	8/12/2013 3:39:58 PM	/ 8800			
Ethylbenzene	ND	0.047	mg/Kg	1	8/12/2013 3:39:58 PM	/ 8800			
Xylenes, Total	ND	0.095	mg/Kg	1	8/12/2013 3:39:58 PM	0088 N			
Surr: 4-Bromofluorobenzene	105	80-120	%REC	1	8/12/2013 3:39:58 PM	0088 N			

Matrix: SOIL

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

Page 2 of 10

- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Lab Order 1308352

Date Reported: 8/15/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Project: Lateral 2A-3

Lab ID: 1308352-003

Client Sample ID: SC-3

Collection Date: 8/7/2013 2:12:00 PM

Received Date: 8/8/2013 9:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANC	SE ORGANICS				Analys	st: JME
Diesel Range Organics (DRO)	15	10	mg/Kg	1	8/12/2013 11:08:35 P	M 8796
Surr: DNOP	99.6	63-147	%REC	1	8/12/2013 11:08:35 P	M 8796
EPA METHOD 8015D: GASOLINE RA	ANGE				Analys	st: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/12/2013 5:05:46 PM	8800
Surr: BFB	89.5	80-120	%REC	1	8/12/2013 5:05:46 PM	8800
EPA METHOD 8021B: VOLATILES					Analys	st: NSB
Benzene	ND	0.048	mg/Kg	1	8/12/2013 5:05:46 PM	8800
Toluene	ND	0.048	mg/Kg	1	8/12/2013 5:05:46 PM	8800
Ethylbenzene	ND	0.048	mg/Kg	1	8/12/2013 5:05:46 PM	8800
Xylenes, Total	ND	0.095	mg/Kg	1	8/12/2013 5:05:46 PM	8800
Surr: 4-Bromofluorobenzene	104	80-120	%REC	1	8/12/2013 5:05:46 PM	8800

Matrix: SOIL

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

- 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 Page 3 of 10
 - P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Lab Order 1308352

Date Reported: 8/15/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: SC-4

Project: Lateral 2A-3

Collection Date: 8/7/2013 2:13:00 PM

Lab ID: 1308352-004

Matrix: SOIL

Received Date: 8/8/2013 9:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	SE ORGANICS				Analys	t: JME
Diesel Range Organics (DRO)	13	10	mg/Kg	1	8/12/2013 11:30:18 PI	vi 8796
Surr: DNOP	98.3	63-147	%REC	1	8/12/2013 11:30:18 PM	И 8796
EPA METHOD 8015D: GASOLINE RA	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/12/2013 5:34:27 PM	8800
Surr: BFB	89.1	80-120	%REC	1	8/12/2013 5:34:27 PM	8800
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.049	mg/Kg	1	8/12/2013 5:34:27 PM	8800
Toluene	ND	0.049	mg/Kg	1	8/12/2013 5:34:27 PM	8800
Ethylbenzene	ND	0.049	mg/Kg	1	8/12/2013 5:34:27 PM	8800
Xylenes, Total	ND	0.097	mg/Kg	1	8/12/2013 5:34:27 PM	8800
Surr: 4-Bromofluorobenzene	105	80-120	%REC	1	8/12/2013 5:34:27 PM	8800

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

- 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
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 4 of 10
 - P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Lab Order 1308352

Date Reported: 8/15/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Lateral 2A-3

Lab ID: 1308352-005

Project:

Client Sample ID: SC-5

Collection Date: 8/7/2013 2:14:00 PM

Received Date: 8/8/2013 9:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analys	st: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/12/2013 11:52:01 P	M 8796
Surr: DNOP	98.3	63-147	%REC	1	8/12/2013 11:52:01 P	M 8796
EPA METHOD 8015D: GASOLINE RA	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/12/2013 6:03:12 PM	8800
Surr: BFB	88.7	80-120	%REC	1	8/12/2013 6:03:12 PM	8800
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.048	mg/Kg	1	8/12/2013 6:03:12 PM	8800
Toluene	ND	0.048	mg/Kg	1	8/12/2013 6:03:12 PM	8800
Ethylbenzene	ND	0.048	mg/Kg	1	8/12/2013 6:03:12 PM	8800
Xylenes, Total	ND	0.096	mg/Kg	1	8/12/2013 6:03:12 PM	8800
Surr: 4-Bromofluorobenzene	104	80-120	%REC	1	8/12/2013 6:03:12 PM	8800

Matrix: SOIL

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

- 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 Page 5 of 10
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1308352

15-Aug-13

Client:

Souder, Miller and Associates

Project:

Lateral 2A-3

Project:											
Sample ID	MB-8796	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Dies	el Range (Organics	
Client ID:	PBS	Batch	ID: 87	96	F	RunNo: 1	2540				
Prep Date:	8/9/2013	Analysis D	ate: 8/	12/2013	8	SeqNo: 3	57283	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	Organics (DRO)	ND	10								
Surr: DNOP		9.7		10.00		97.2	63	147			
Sample ID	LCS-8796	SampT	ype: LC	s	Tes	Code: El	PA Method	8015D: Dies	el Range C	Organics	
Client ID:	LCSS	Batch	ID: 87	96	F	RunNo: 1	2540				
Prep Date:	8/9/2013	Analysis D	ate: 8/	12/2013	S	SeqNo: 3	57284	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	Organics (DRO)	40	10	50.00	0	79.9	77.1	128			
Surr: DNOP		3.8		5.000		76.5	63	147			
Sample ID	MB-8810	SampT	ype: ME	BLK	Tes	Code: El	PA Method	8015D: Dies	el Range C	Organics	
Client ID:	PBS	Batch	ID: 88	10	F	tunNo: 1:	2540				
Prep Date:	8/12/2013	Analysis D	ate: 8/	12/2013	S	SeqNo: 3	57705	Units: %RE	С		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		9.9		10.00		99.3	63	147			
Sample ID	LCS-8810	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Diese	el Range C	Organics	
Client ID:	LCSS	Batch	ID: 88	10	F	tunNo: 1:	2540				
Prep Date:	8/12/2013	Analysis Da	ate: 8/	12/2013	S	SeqNo: 3	57950	Units: %RE	С		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.1		5.000		81.3	63	147		-	
Sample ID	1308352-001AMS	SampT	ype: MS	3	Tes	Code: El	PA Method	8015D: Diese	el Range C	rganics	
Client ID:	SC-1	Batch	ID: 87 9	96	F	tunNo: 1	2540				
Prep Date:											
	8/9/2013	Analysis Da	ate: 8/	12/2013	S	eqNo: 3	57951	Units: mg/K	\g		
	8/9/2013	Analysis Da	ate: 8/ PQL		SPK Ref Val	eqNo: 3: .%REC	57951 LowLimit	Units: mg/K HighLimit	vg %RPD	RPDLimit	Qual
Analyte	8/9/2013 Organics (DRO)	•				•		_		RPDLimit	Qual S
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit		RPDLimit	
Analyte Diesel Range (Surr: DNOP		Result 43 4.4	PQL 10	SPK value 50.30 5.030	SPK Ref Val 17.04	%REC 51.5 87.0	LowLimit 61.3 63	HighLimit	%RPD		
Analyte Diesel Range (Surr: DNOP	Organics (DRO)	Result 43 4.4 SampTy	PQL 10	50.30 5.030	SPK Ref Val 17.04 Tes	%REC 51.5 87.0	LowLimit 61.3 63 PA Method	HighLimit 138 147	%RPD		
Analyte Diesel Range C Surr: DNOP	Drganics (DRO) 1308352-001AMSE SC-1	Result 43 4.4 SampTy	PQL 10 ype: MS ID: 87 9	5PK value 50.30 5.030	SPK Ref Val 17.04 Tes	%REC 51.5 87.0 Code: El	61.3 63 PA Method	HighLimit 138 147	%RPD		
Analyte Diesel Range (Surr. DNOP Sample ID Client ID:	Drganics (DRO) 1308352-001AMSE SC-1	Result 43 4.4 SampTy Batch	PQL 10 ype: MS ID: 879 ate: 8/	5PK value 50.30 5.030 6D 96 12/2013	SPK Ref Val 17.04 Tes	%REC 51.5 87.0 tCode: El	61.3 63 PA Method	HighLimit 138 147 8015D: Diese	%RPD		
Analyte Diesel Range (Surr: DNOP Sample ID Client ID: Prep Date: Analyte	Drganics (DRO) 1308352-001AMSE SC-1	Result 43 4.4 D SampTy Batch Analysis Da	PQL 10 ype: MS ID: 879 ate: 8/	5PK value 50.30 5.030 500 96 12/2013 SPK value 49.70	SPK Ref Val 17.04 Tes	.%REC 51.5 87.0 Code: El cunNo: 1: GeqNo: 3: %REC 64.0	LowLimit	HighLimit 138 147 8015D: Diese Units: mg/K HighLimit 138	%RPD	Organics	S
Analyte Diesel Range (Surr: DNOP Sample ID Client ID: Prep Date: Analyte	Drganics (DRO) 1308352-001AMSE SC-1 8/9/2013	Result 43 4.4 D SampTy Batch Analysis Da	PQL 10 ype: MS ID: 879 ate: 8/	5PK value 50.30 5.030 50 6D 96 12/2013 SPK value	SPK Ref Val 17.04 Tes F S	%REC 51.5 87.0 Code: Ei dunNo: 1: deqNo: 3:	LowLimit	HighLimit 138 147 8015D: Diese Units: mg/K	%RPD el Range C	Organics RPDLimit	S

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

Page 6 of 10

Hall Environmental Analysis Laboratory, Inc.

WO#:

1308352

15-Aug-13

Client:

Souder, Miller and Associates

Project:

Lateral 2A-3

Sample ID 1308420-001AMS

SampType: MS

TestCode: EPA Method 8015D: Diesel Range Organics

Client ID:

BatchQC 8/12/2013 Batch ID: 8810

RunNo: 12540

Analysis Date: 8/12/2013

Units: %REC

Analyte

PQL

SeqNo: 357965

Prep Date:

Result

SPK value SPK Ref Val

%REC LowLimit HighLimit

RPDLimit

Qual

4.0

4.995

147

TestCode: EPA Method 8015D: Diesel Range Organics

%RPD

Surr: DNOP

Sample ID 1308420-001AMSD

SampType: MSD

RunNo: 12540

Client ID: Prep Date:

BatchQC 8/12/2013

Batch ID: 8810 Analysis Date: 8/12/2013

PQL

SeqNo: 357966 %REC

Units: %REC

RPDLimit

Qual

Analyte

Result

88.9

63

LowLimit

HighLimit 147 %RPD 0

Surr: DNOP

4.4

4.931

SPK value SPK Ref Val

<u>\</u> 0

Qualifiers:

Value exceeds Maximum Contaminant Level

E Value above quantitation range

Analyte detected below quantitation limits

0 RSD is greater than RSDIimit

R RPD outside accepted recovery limits

Spike Recovery outside accepted recovery limits

Analyte detected in the associated Method Blank В

Holding times for preparation or analysis exceeded Н

ND Not Detected at the Reporting Limit

Sample pH greater than 2 for VOA and TOC only.

Reporting Detection Limit

Page 7 of 10

Hall Environmental Analysis Laboratory, Inc.

WO#:

1308352

15-Aug-13

Client:

Souder, Miller and Associates

Project:	Lateral 2	A-3									
Sample ID	MB-8800	SampTy	pe: M	BLK	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	е	
Client ID:	PBS	Batch	ID: R	12570	F	RunNo: 1	2570				
Prep Date:	8/9/2013	Analysis Da	te: 8	/12/2013	8	SeqNo: 3	58060	Units: %RE	c		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		870		1000		86.9	80	120			
Sample ID	LCS-8800	SampTy	pe: L0	cs	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	е	
Client ID:	LCSS	Batch	ID: R	12570	F	tunNo: 1	2570				
Prep Date:	8/9/2013	Analysis Da	te: 8	/12/2013	S	SeqNo: 3	58068	Units: %RE	c		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		940		1000		93.7	80	120			
Sample ID	MB-8800	SampTy	ре: М	BLK	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID:	PBS	Batch	ID: 88	800	F	lunNo: 1	2570				
Prep Date:	8/9/2013	Analysis Da	te: 8	/12/2013	S	SeqNo: 3	58118	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	e Organics (GRO)	ND 070	5.0				00	400			
Surr: BFB		870		1000		86.9	80	120			
Sample ID	LCS-8800	SampTy	pe: L0	cs	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID:	LCSS	Batch	ID: 88	800	F	tunNo: 1	2570				
Prep Date:	8/9/2013	Analysis Da	te: 8	/12/2013	S	eqNo: 3	58119	Units: mg/K	(g		
Analyte		Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang Surr: BFB	e Organics (GRO)	25 940	5.0	25.00 1000	0	100 93.7	62.6 80	136 120			
		940		1000		93.7	80	120			
	1308352-002AMS	SampTy			Tes	Code: E	PA Method	8015D: Gaso	line Rang	е	
Client ID:		Batch				lunNo: 1					
Prep Date:	8/9/2013	Analysis Da	te: 8	/12/2013	S	SeqNo: 3	58122	Units: mg/K	(g		
Analyte		Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang Surr: BFB	e Organics (GRO)	22 930	4.8	24.18 967.1	0	92.0 96.2	76 80	156 120			
Sample ID	1308352-002AMSE) SampTy	pe: M	SD				8015D: Gaso	line Rang	е	
l '											
Client ID:		Batch				lunNo: 1		11-3-	•		
Client ID: Prep Date:		Analysis Da				SeqNo: 3		Units: mg/K	•		
Prep Date: Analyte	8/9/2013	Analysis Da Result	te: 8	/12/2013 SPK value	SPK Ref Val	SeqNo: 3	58123 LowLimit	HighLimit	%RPD	RPDLimit	Qual
Prep Date: Analyte		Analysis Da	te: 8	/12/2013 SPK value	S	SeqNo: 3	58123	•	•	RPDLimit 17.7 0	Qual

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits S
- В Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- Page 8 of 10
- Sample pH greater than 2 for VOA and TOC only.
- Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

Units: %REC

120

%RPD

RPDLimit

Qual

HighLimit

1308352

15-Aug-13

Client:

Souder, Miller and Associates

Analysis Date: 8/12/2013

PQL

Result

1.0

Project:

Prep Date:

Analyte

8/9/2013

Surr: 4-Bromofluorobenzene

Lateral 2A-3

Sample ID MB-8800	SampType: MBLK		Tes	tCode: El	PA Method	8021B: Volat	tiles			
Client ID: PBS	Batch ID: R12570		F	RunNo: 12570						
Prep Date: 8/9/2013	Analysis D	ate: 8/	12/2013	S	SeqNo: 3	58141	Units: %RE	С		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			
Sample ID LCS-8800	SampType: LCS		Tes	TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: R12570		F	RunNo: 12570						

SeqNo: 358142

105

LowLimit

80

Sample ID MB-8800	Samp	SampType: MBLK		TestCode: E	TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 8800		RunNo: 1								
Prep Date: 8/9/2013	Analysis [Date: 8/	12/2013	SeqNo: 3	58149	Units: mg/k	(g				
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	103	80	120					

SPK value SPK Ref Val %REC

1.000

Sample ID LCS-8800	SampT	SampType: LCS			tCode: E					
Client ID: LCSS	Batch ID: 8800			·F	RunNo: 1					
Prep Date: 8/9/2013	Analysis D	Date: 8/	12/2013	8	SeqNo: 3	58150	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	102	80	120			
Toluene	1.0	0.050	1.000	0	101	80	120			
Ethylbenzene	1.0	0.050	1.000	0	103	80	120			
Xyienes, Total	3.1	0.10	3.000	0	104	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		105	80	120			

Sample ID 1308352-001AMS	SampT	SampType: MS			tCode: El	PA Method	iles			
Client ID: SC-1	Batch ID: 8800			F	RunNo: 1	2570				
Prep Date: 8/9/2013	Analysis D	ate: 8/	12/2013	S	SeqNo: 3	58152	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.047	0.9443	0	98.6	67.3	145			
Toluene	0.91	0.047	0.9443	0	96.1	66.8	144			
Ethylbenzene	0.94	0.047	0.9443	0	99.1	61.9	153			
Kylenes, Total	2.8	0.094	2.833	0	100	65.8	149			

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

Page 9 of 10

Hall Environmental Analysis Laboratory, Inc.

WO#:

1308352

15-Aug-13

Client:

Souder, Miller and Associates

Project:

Lateral 2A-3

Sample ID 1308352-001AMS

SampType: MS

TestCode: EPA Method 8021B: Volatiles

LowLimit

Client ID:

SC-1

Batch ID: 8800

RunNo: 12570

%REC

Prep Date:

8/9/2013

Analysis Date: 8/12/2013

PQL

Units: mg/Kg

HighLimit

Analyte

SeqNo: 358152

Qual

Result

SPK value SPK Ref Val

107

%RPD **RPDLimit**

Surr: 4-Bromofluorobenzene

1.0

0.9443

TestCode: EPA Method 8021B: Volatiles

Sample ID	1308	352-001AMSD

Client ID: SC-1 SampType: MSD Batch ID: 8800

RunNo: 12570

Analysis Date: 8/12/2013

SeaNo: 358154

Prep Date. 6/9/2013	Allalysis	Jaic. oi	12/2013		eqino. 3	30134	Onits. mg/r	vg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.047	0.9443	. 0	93.8	67.3	145	4.98	20	
Toluene	0.86	0.047	0.9443	0	91.5	66.8	144	4.93	20	
Ethylbenzene	0.88	0.047	0.9443	0	93.5	61.9	153	5.83	20	
Xylenes, Total	2.7	0.094	2.833	0	94.5	65.8	149	6.13	20	
Surr: 4-Bromofluorobenzene	1.0		0.9443		106	80	120	0	0	

Qualifiers:

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

Page 10 of 10



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	SMA-FARM	Work Order Num	nber: 1308352		RcptNo: 1	
Received by/date	IM	08/08/13				
Logged By:	Ashley Gallegos	8/8/2013 9:55:00 A	· ·	AZ		
Completed By:	Ashley Gallegos	8/8/2013 12:42:55	PM	4		
Reviewed By:	IO	08/08/13		. 0		
Chain of Cust	_	00/0/13				
	s intact on sample bottle	s?	Yes ·	No !	Not Present ✓	
	ustody complete?	_	Yes 🗸	No i	Not Present	
	sample delivered?		Courier			
<u>Log In</u>				•		
	mpt made to cool the sar	nples?	Yes 🗸	No :	NA	
5. Were all sam	ples received at a tempe	erature of >0° C to 6.0°C	Yes 🗸	No :	NA ·	
6. Sample(s) in	proper container(s)?		Yes 🗸	No !		
7. Sufficient san	nple volume for indicated	i test(s)?	Yes 🗸	No :		
8. Are samples	(except VOA and ONG)	properly preserved?	Yes 🗸	No		
9. Was preserva	ative added to bottles?		Yes	No 🗸	NA .	
10.VOA vials ha	ve zero headspace?		Yes	No : :	No VOA Vials :✔	
11. Were any sa	imple containers receive	d broken?	Yes	No 🗸	# of preserved bottles checked	
	ork match bottle labels? pancies on chain of custo	dy)	Yes ✔	No :	for pH: (<2 or >12 unio	ess noted)
13. Are matrices	correctly identified on Cl	nain of Custody?	Yes 🗸	No 🔡 '	Adjusted?	
14, Is it clear wha	at analyses were reques	ed?	Yes 🗸	No		÷
	ling times able to be met customer for authorizatio		Yes 🗸	No	Checked by:	
Special Handl	ling (if applicable)					
16. Was client no	otified of all discrepancie	s with this order?	Yes	No :	NA 🗸	
Person	Notified:	Da	te:	Nathalian and an	•	
By Who	om:	Via	•	hone : Fax	In Person	
Regard	ling:			**************************************	·	
Client I	Instructions:					
17. Additional re	emarks:					
18. Cooler Info		n Seal Intact Seal No	Seal Date	Signed By		

Chain-ot-Custody Record	Turn-Around Time:	HALL ENVIRONMENTAL
Client: 5MA	Standard □ Rush	ANALYSIS LABORATORY
	Project Name:	www.hallenvironmental.com
Mailing Address: 2101 San Juan Blud.	Lateral 2A-3	4901 Hawkins NE - Albuquerque, NM 87109
English also Paid	Project #:	Tel. 505-345-3975 Fax: 505-345-4107
Farming for NM BAYD Phone #: 605. 325.7535	S132104	Analysis Request
email or Fax#: Long.long e Soudermiller.com	Project Manager:	
QA/QC Package: Standard Level 4 (Full Validation)	Thomas Long	(Gas on PO4, SC PCB's
Accreditation □ NELAP □ Other	Sampler: Thomas Long On Ice: Yes Ding	7 15B (G 115B (G 115B (G 18.1) 18.1) 18.1) 18.10
☐ EDD (Type)	Sample temperature	3
Date Time Matrix Sample Request ID	Container Preservative HEAL No. Type	1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2
3-4-13 1410 Soil Sc-1	-001	
1 1411 1 56-9	-602	
	-003	
1413 SC-3 1413 SC-4	-004	1 1
1413 SC-4 1414 J SC-5	-005	
4 1919 4 30 3	-03	
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	 	╏┥╋╏╏╏╏╏
		┞╶┤╶╏┈╏┈╏┈╏ ╶ ╏┈╏
Date: Time: Relinquished by: Date: Time: Relinquished by: Date: Time: Relinquished by:	Received by: Date Time Styles 1765 Received by: Date Time	Remarks: Bill 7. Buterpase
1/1/10 1737 Christie Walt	1 8/08/18 1955	
If necessary, samples submitted to Hall Environmental may be sub	contracted to office accredited laboratories. This serves as notice of this	possibility. Any sub-contracted data will be clearly notated on the analytical report.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

						OPERATOR ☐ Initial Report ☐ Final Report						al Report	
		nterprise Fiel			(Contact: Runell Seale / Jim Lieb							
		Ave., Farmin				Telephone No. 505-599-2124 / 505-599-2159							
Facility Na	me Latera	1 10D-2 Gath	nering Li	ne		Facility Type: Natural gas gathering line							
Surface Ow	ner: Nov	0.50		Mineral O	wner				API No),			
	24	10/23/2013				LOPPE	EACE						
Unit Letter	Section	Township	Range	Feet from the		N OF RELEASE /South Line Feet from the East/West Line County							
Om Letter	Section	Township	Kange	1 rect from the	rotti/Jouth Elle Teet from the East			Eastry	t/West Line County				
J	17	26N	11W	11W						San Juan			
Latitude_N 36.48801 _ Longitu						le W 108.0	2705 (Decimal	Degree	es)				
NATURE OF RELEASE													
m .cn.i	NT.	1.C. Dimelia	. D.I		UKE				37.1		200 1		1 0
Type of Refe	ease: Natui	ral Gas Pipelin	ie Release	(Gas, fiquid)		volume of	Release Unknow	<i>v</i> n		Recovered: 2 ated soil was			
									location.	aica son wa	, remo ,	Çu	
Source of Re	elease: Corr	osion hole	<u> </u>			1	our of Occurrence	ce:		Hour of Dis			
Was Immedi	ata Nation (Civen?				Unknown If YES, To	Whom?		7/24/2013	3 @ 07:00 ho	ours		
was milleur	ate Notice		Yes [No Not Re	quired	11 163, 10	wnom?						
By Whom?			<u> </u>		<u> </u>	Date and H	our		Σ.	cun sep	775	9	
Was a Water	course Rea	ched?				If YES, Vo	lume Impacting	the Wate		DIL CONS			
			Yes 🗵	No		DIST. 3							
If a Watercon	urse was Im	pacted, Descr	ibe Fully.	*									
Describe Car	use of Probl	lem and Reme	dial Actio	n Taken.* A possil	ble line	leak was ider	ntified during a re	outine li	ne patrol. I	.eak was vei	ified u	pon_	
excavation.	Pipeline wa	s isolated, LO	TO applie	d, and repairs were	e made.	An addition	al leak was disco	vered in	the excava	ition by a thi	rd part	y	
	al contracto	or providing en	vironmen	tal assessment sup	port to I	Enterprise Fig	eld Services. Add	ditional	successful	repairs were	made c	on Ju	ly 28,
2013. Describe Are	ea Affected	and Cleanup /	Action Tal	ken.* Third party	enviro	nmental cont	ractor was dispate	ched to	the location	to perform	cleanur		
				soil were excavate									s.
Associated th	hird party co	orrective actio	n report is	attached to this "f	inal" c-	141 report.							
				e is true and compl									
				nd/or file certain re ce of a C-141 repor									
should their operations have failed to adequately investigate and remediat or the environment. In addition, NMOCD acceptance of a C-141 report d													
federal, state, or local laws and/or regulations.							OH GOV	<u>aedi</u>	/	DRUGIC			
	1		11				OIL CON	<u>SER v</u>	ATION	DIVISIC	<u>)N</u>		
Signature:	_//Bn	uld							\wedge	./	1		
Printed Nam	e: Jon Fiel	lds				Approved by	Environmental S	pecialis	ii: Dread	HD. K	lles		
						Approval Date: 10/23/2013 Expiration Date:							
						Conditions of Approval:							

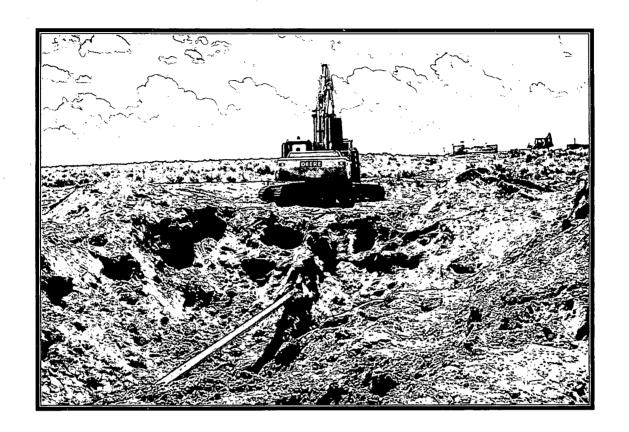
Date: 9-18-2013 P
* Attach Additional Sheets If Necessary

Phone: 832-501-4078

NJK1329653408

Enterprise Products Lateral 10D-2 (Federal 26-11 17 #2) Pipeline Release Latitude North 36.48800, Longitude West -108.02704 NW1/4, SE 1/4 Section 17 T26N R11W San Juan County, New Mexico

RCVD SEP 27'13 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 2101 San Juan Boulevard Farmington, NM 87401 (505)325-7535



Table of Contents

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	Introduction	
3.0	Site Ranking and Land Jurisdiction	4
	Summary of Field Activities	
5.0	Conclusions and Recommendations	5
6.0	Closure and Limitations	5

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Figure 1: Vicinity Map

Figure 2: Site and Soil Contaminant Concentration Map

Tables:

Table 1: Release Information

Table 2: Site Ranking

Table 3: Summary of Field Screening Results

Table 4: Summary of Laboratory Analysis

Appendices:

Appendix A: Field Notes

Appendix B: Site Photography

Appendix C: Soil Disposal Documentation Appendix D: Laboratory Analytical Reports

1.0 Executive Summary

On July 26, 2013, July 30, 2013 and August 14, 2013, Souder, Miller & Associates (SMA) responded to a hydrocarbon release associated with the Lateral 10D-2 (Federal 26-11 17 #2) pipeline. The table below summarizes information about the release and remediation activities.

	TABLE 1: RELEASE INFORMATION						
Name	Latera	Lateral 10D-2 (Federal 26-11 17 #2) Pipeline Release					
	Latitude	nship, Range					
Location	36.48800	-108.020704	Unit J NW ¼ SE ¼ Section 17	T 26N, R 11W			
Date Reported	July 25, 2013						
	Aaron Dailey						
Land Owner	Navajo Nation,	Navajo Agricultura	I Products Industry	(NAPI)			
Reported To	New Mexico Oil Conservation Division (NMOCD), Navajo Nation Environmental Protection (NNEPA) Agency, NAPI and BLM						
Diameter of Pipeline	8 inches						
Source of Release	Internal Corrosion						
Release Contents	Natural Gas Liquids/Condensate						
Release Volume	Unknown						
Nearest Waterway	Tributary to Ga	allegos Wash					
Depth to Groundwater	Assumed to be	e less than 50 feet		•			
Nearest Domestic Water Source	Greater than 2	00 feet					
NMOCD Ranking	40						
SMA Response Dates	July 26, 2013,	July 30, 2013 and A	August 14, 2013				
Subcontractors	West States E	nergy Contractors (WSEC)	_			
Disposal Facility	Envirotech Lar	ndfarm					
Yd³ Contaminated Soil Excavated and Disposed	280						

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 Lateral 10D-2 (Federal 26-11 17 #2) pipeline. The Lateral 10D-2 (Federal 26-11 17 #2) pipeline release was a result of internal corrosion of the steel pipeline. The release was reported on July 25, 2013. The pipeline is located in Unit J (NW ¼, SE ¼) Section 17, Township 26 North, Range 11 West, 36.48800, -108.02704, San Juan 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 in a tributary of Gallegos Wash on land owned by the Navajo Agricultural Products Industry (NAPI) with an elevation of approximately 6,167 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 were located in Section 17 and the release is located in the approximate center of the section. The physical location of this release is within the jurisdiction of NAPI and NNEPA. In the absence of NNEPA regulations related to oil and gas releases, this release defaults to the most stringent NMOCD soil remediation standard. This release location has been assigned a NMOCD ranking of 40 which requires a soil remediation standard of 10 parts per million (ppm) benzene, 50 ppm total benzene, toluene, ethyl-benzene, and total xylenes (BTEX), and 100 ppm total petroleum hydrocarbons (TPH). Table 2 illustrates site ranking rationale.

4.0 Summary of Field Activities

On July 26, 2013 and July 30, 2013, SMA mobilized to the release site to delineate the release area and conduct field screening on the excavation side walls, base and stock piled soil. During the first event, the pipeline was still leaking and the side walls and base exceeded regulatory soil remediation standards. During the second event, the side walls and base of the excavation continued to exceed regulatory soil remediation standards. Field screening results indicated that the northern stockpiles of soil were below regulatory standards and would be used as backfill. Field notes for both events are included in Appendix A.

On August 14, 2013, under the supervision of SMA, WSEC excavated the hydrocarbon impacted soil for the Lateral 10D-2 (Federal 26-11 17 #2) pipeline release. SMA personnel guided the excavation activities by collecting soil samples for field screening with a calibrated photo-ionization detector (PID). Table 3 summarizes the field screening results. After field screening results indicated that the hydrocarbon impacted soil had been removed, SMA collected nine composite soil samples for laboratory analysis. 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 2 illustrates the extent of the excavation and composite soil sample locations and laboratory results.

The final excavation dimensions were approximately 57 feet long by 27 feet wide by 12 feet deep, covering an area of approximately 2,029 square feet. Site photography is included in Appendix B. Approximately 280 cubic yards of hydrocarbon contaminated soil were excavated and transported by WSEC to Envirotech Land Farm near Bloomfield, New Mexico for proper disposal. Soil disposal documentation is included in Appendix C. As per the request of NAPI, clean soil from the site was used as backfill for the excavation.

5.0 Conclusions and Recommendations

As noted in Section 3.0 of this report, in the absence of NNEPA regulations related to oil and gas releases, this release defaults to the most stringent NMOCD soil remediation standards. NMOCD Guidelines for Remediation of Leaks, Spills, and Releases have established the following action levels for contaminants of concern with a site ranking of 40: 10 ppm benzene, 50 ppm total BTEX, and 100 ppm TPH. Based on laboratory analysis, all of the soil samples collected were below laboratory detection limits. Soil contaminant concentrations are illustrated in Figure 2. 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 and stabilization, regulatory liaison, oversight and control of remediation operations, disposal arrangements and documentation, project management, and preparation of this summary report. All work has been performed in accordance with generally accepted professional environmental consulting practices.

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

Submitted by:

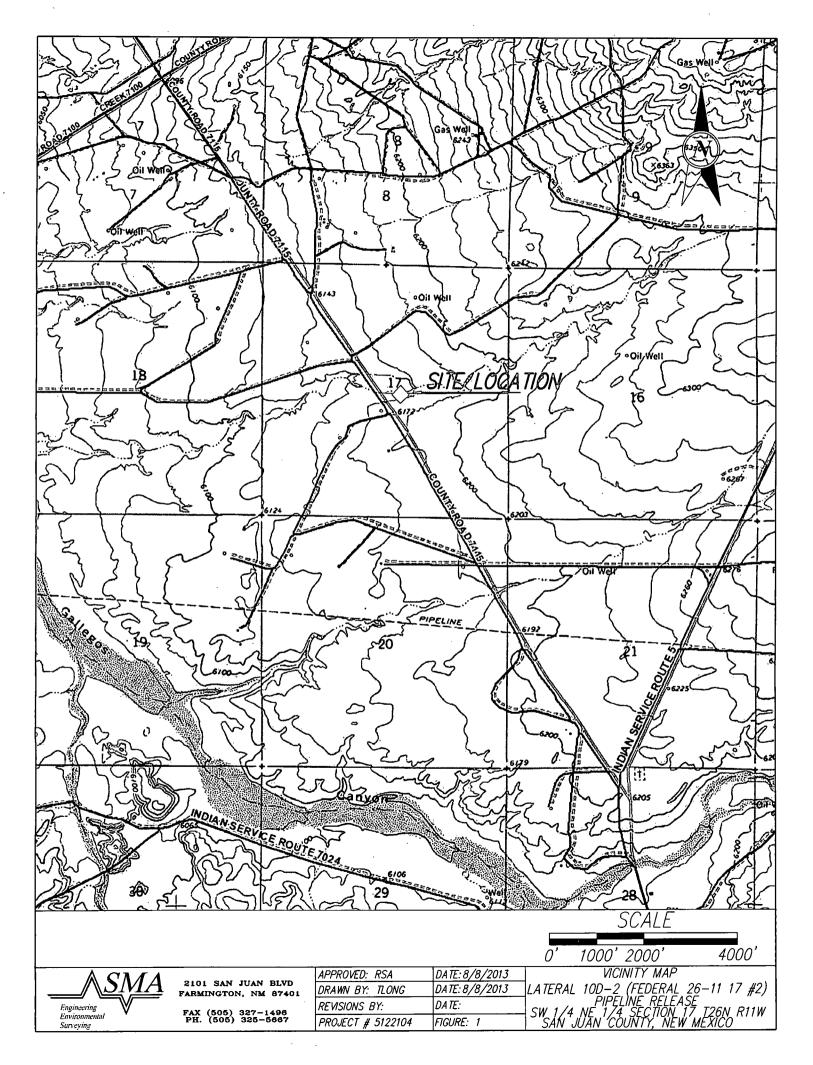
Reviewed by:

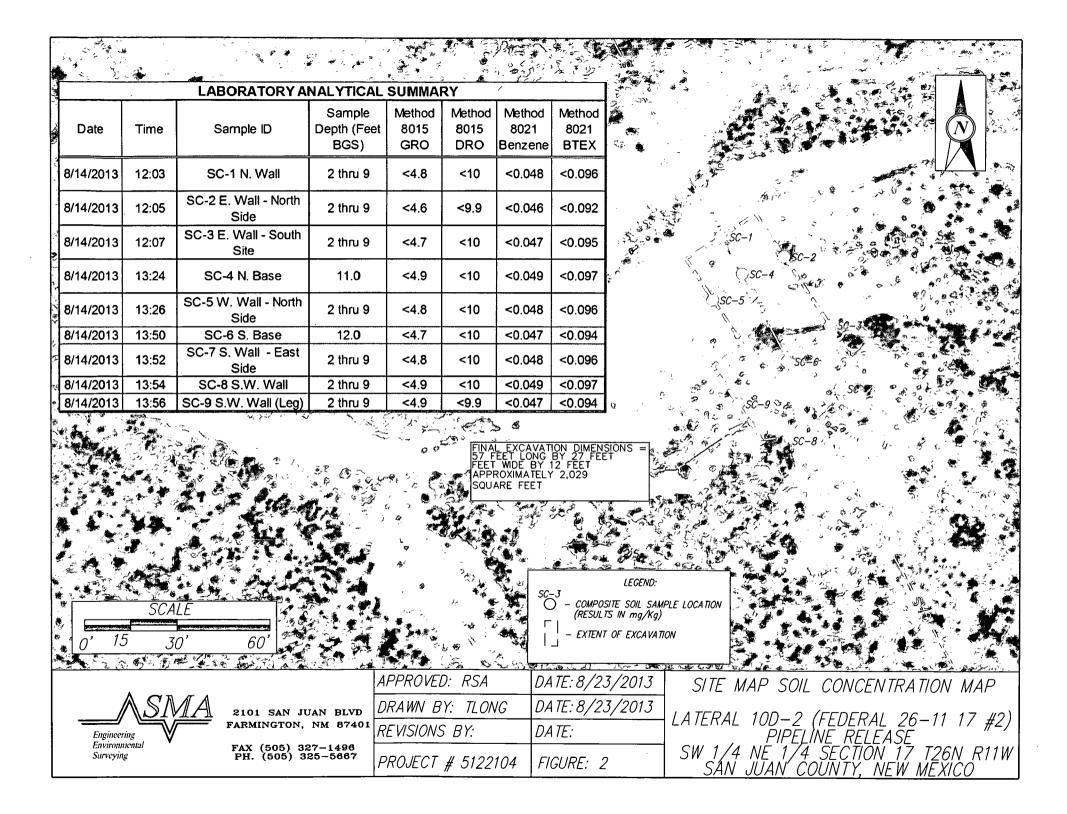
SOUDER, MILLER & ASSOCIATES

Mosoos J. Lorg

Thomas J. Long Project Scientist

Reid S. Allan, PG Principal Scientist





Depth to Groundwater	NMOCD Numeric Rank for this Site	Source for Ranking	Notes	
< 50 BGS = 20	20	USGS Topo Maps; Google Earth Elevation Difference	Release is located within	
50' to 99' = 10		from the site and the unamed wash to the	a tributary of Gallegos Wash	
>100' = 0		north		
Ranking Criteria for Horizontal Distance to Nearest Surface Water	NMOCD Numeric Rank for this Site	Source for Ranking	Notes	
< 200' = 20	20	USGS Topo Maps; Google	Release is located within	
200'-1000' = 10		Earth ; PRCC Mapping Tool	a tributary of Gallegos Wash	
>1000'				
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	0		Release is located in the	
water source? YES OR NO to BOTH. YES = 20, NO = 0		NM State Engineer Water Well Database	center of section 17 and no wells are in section 17	
Total Site Ranking	40			
Soil Remedation Standards	0 to 9	10 to 19	>19	
Benzene	10 PPM	10 PPM	10 PPM	
BTEX	50 PPM	50 PPM	50 PPM	
ТРН	5000 PPM	1000 PPM	100 PPM	



Table 3: Summary of Field Screening Results (PPM)

FIELD SCREENING RESULTS SUMMARY						
Date	Time	Field Screening Reference	Sample Depth (Feet BGS)	PID Results	Lab Sample Collected Y/N	
8/14/2013	10:11	S-1 Base	11	475.0	N	
8/14/2013	10:12	S-2 W. Wall - Center	2 thru 9	28.0	N	
8/14/2013	10:13	S-3 SE Corner Wall	2 thru 9	403.0	N	
8/14/2013	10:50	S-4 SW Corner Wall	2 thru 9	445.0	N	
8/14/2013	10:51	S-5 S. Wall - West Side	2 thru 9	114.0	N	
8/14/2013	10:52	S-6 S.W. Base	9 .	316.0	N	
8/14/2013	15:08	S-7 Base	11	21.0	N	
8/14/2013	11:09	S-8 E. Wall - Center	2 thru 9	298.0	N	
8/14/2013	11:35	S-9 S. Base - East Side	12	16.7	N	
8/14/2013	11:36	S-10 S.E. Corner Wall	3 thru 9	49.0	N	
8/14/2013	11:37	S-11 S. Wall - East Side	2 thru 9	36.0	N	
8/14/2013	11:48	S-12 S.W. Base	12.0	12.3	N	
8/14/2013	11:49	S-13 S. Wall - West Side	2 thru 9	3.7	N	
8/14/2013	12:02	S-14 West Base	12.0	198.0	N	
8/14/2013	12:03	SC-1 N. Wall	2 thru 9	0.4	Υ	
8/14/2013	12:05	SC-2 E. Wall - North Side	2 thru 9	9.6	Υ	
8/14/2013	12:07	SC-3 E. Wall - South Site	2 thru 9	58.0	Y	
8/14/2013	13:24	SC-4 N. Base	11.0	97.0	Υ	
8/14/2013	13:26	SC-5 W. Wall - North Side	2 thru 9	16.0	Υ	
8/14/2013	13:28	S-15 S.W. Corner Wall	2 thru 9	49.0	N	
8/14/2013	13:29	S-16 S.W. Wall	2 thru 9	26.0	N	
8/14/2013	13:50	SC-6 S. Base	12.0	102.0	Υ	
8/14/2013	13:52	SC-7 S. Wall	2 thru 9	45.0	Υ	
8/14/2013	13:54	SC-8 S.W. Wall	2 thru 9	16.0	Υ	
8/14/2013	13:56	SC-9 S.W. Wall (Leg)	2 thru 9	36.0	Υ	



Enterprise Products Table 4: Summary of Laboratory Analysis Results in Kg/mg

	LABORATORY ANALYTICAL SUMMARY								
Date	Time	Sample ID	Sample Depth (Feet BGS)	Method 8015 GRO	Method 8015 DRO	Method 8021 Benzene	Method 8021 BTEX		
8/14/2013	12:03	SC-1 N. Wall	2 thru 9	<4.8	<10	<0.048	<0.096		
8/14/2013	12:05	SC-2 E. Wall - North Side	2 thru 9	<4.6	<9.9	<0.046	<0.092		
8/14/2013	12:07	SC-3 E. Wall - South Site	2 thru 9	<4.7	<10	<0.047	<0.095		
8/14/2013	13:24	SC-4 N. Base	11.0	<4.9	<10	<0.049	<0.097		
8/14/2013	13:26	SC-5 W. Wall - North Side	2 thru 9	<4.8	<10	<0.048	<0.096		
8/14/2013	13:50	SC-6 S. Base	12.0	<4.7	<10	<0.047	<0.094		
8/14/2013	13:52	SC-7 S. Wall	2 thru 9	<4.8	<10	<0.048	<0.096		
8/14/2013	13:54	SC-8 S.W. Wall	2 thru 9	<4.9	<10	<0.049	<0.097		
8/14/2013	13:56	SC-9 S.W. Wall (Leg)	2 thru 9	<4.9	<9.9	<0.047	<0.094		



5122104 BG14 Lateral 100-2 EPCO 7/26/13 S. Mostel

- on site (2) 0946

- conduct site assessment, perform HASP.

- monitor excauction up vertis mx4 for Atmospheric conditions.

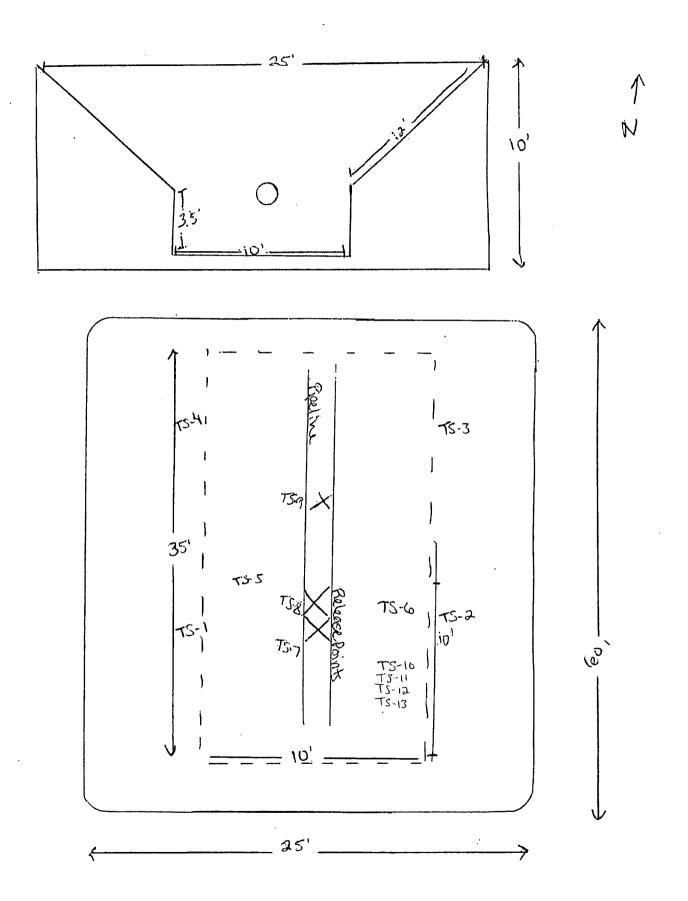
\$ 20.8°602

Oppm CO Oppm H2S 0% LEL

- calibrate PID

Time PID/ppm) Sample 1045 167.6 TS-107' 1046 649.9 TS-2871 1047 1.6 TS-305 1047 TS-405' 1.2 W 48 2237 TS-5010' 1049 540.2 330.1 TS-6010' 1105 147.8 TS-7010 1106 194,7 TS-8010' 1574 1107 TJ-9810' BOT 96.4 1139 TS-10 02' TS-11 P3 80T 1140 72.6 1141 534 T5-12@4' BOT 1141 13.5 TS-BA5'80T - Of site @ N:55

BOT = From bottom of trench



5122104 PAGE 1 of 2 PROJECT

CLIENT

7-30-13 BY 756

0945 onsite, fill out JSA; Photograph Execution Check Atmosphere: 0 LEL, 0 Has, 2017 Oa, 0 CO 0955 Map Site - 8 dia PL 1000 Collect Compasite Soil Samples for Field Screening PRM S-1 Time PRM 0-11' S-2 1007 U.9 SESP 1108 679ppm
1000 Collect Composite Soil Samples for Field Screening 7, me PPM 5-2 1006 848 NBSP 1108 679ppm 5-3 1007 4.9 SESP 1108 679ppm
1000 Collect Composite So-1 Samples for Field Screening Time PPM S-1 1005 848 NESP 1109 4PPM S-2 1007 4.9 SESP 1108 679ppm
5-2 1007 4.9 SESP 1108 679 ppm
5-7 0-11" 1007 49 SESP 1108 679ppm
) 0 1 PT
5-3
0-11'
5-4 3.0 3.0 1110 Phono call with C.7.
5-5 495 495 2 Let him know that we have to dig the side walls of Base more than off Southern sp
5-6 11:15 Phone Call with D.B
111 105 Told him to dig more on the side walls & Base and hard off
O.B. Said for would call smA when they
5-8 1033 236 All field Samples were 5-pt. (1' Composite Head Space
5-9 1100 7.1 1135 Load Equipment
5-10 1101 2.9 1145 offste
NWSP NOY Mi3
565P (105 629)

CLIENT	Enterpr	750		DATE 7	7-30-13	ву 7	ンご
				CHECKED		ву	1 N
Fa	OSC IS	17 x 507 Sand 5			5,6	BY	NESI)
	5w5P	5-3	5-7		5-5		10

CLIENT Enterprise

DATE 6-14-13 BY 73C

	CHECKED BY
10 ET LF; Execution has	- wefer at the boffer The two
Southern Stock p. les hove bear	transported to E7 Ct.
1000 collect soil samples from S-1 - Bottom center ell	475 ppm 1011
S-a west wall center	38ppm 1013
S-3 SE Corner up a !!	403ppm 1013
5-4 Sw Corner would	445 ppm 1050
5-5 5 wall (west)	114 ppm 1051
5-6. S.W. Bolton e 201	3/4 pm 105 0
5-7 Boltonie 11' Pl	2 ppm 1108
5-8 E wall Center	298pp~ 1709
5-9 S. Botton (Fast & D')	16 7 pm 1135
5-10 SE. Cornel Wall (3-9)	
5-11 5 way (Eside) 5-12 5 w. Botton & D.	36 ppm 1137
5-13 5. wall west side	317 ppm 1149
SIM Crest Bethom Conton	198 pm: 1202

CLIENT BATERPISE

DATE 8-14-13 BY 7JC

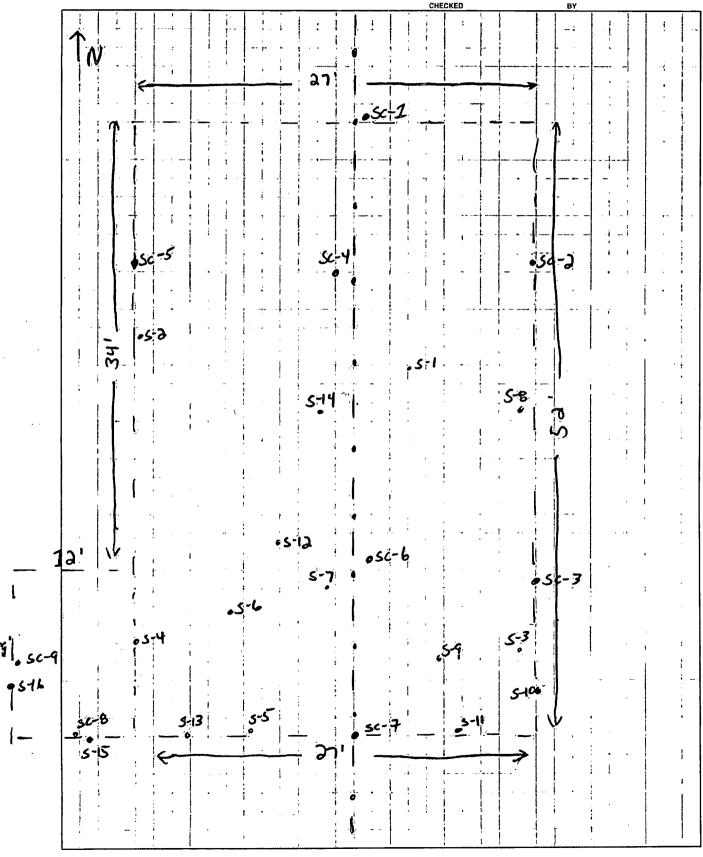
		CHECKED		
	2 9 - 6 - 1			
52 37 10. CBall	2 -9 = 0.400 12		_	
Sc-a B wall	(W) 2-9° 2 9.6ppm.	1905		
Sc 3 E wal	1(5) 2-91 = 58pm	1207		#
	ton (211') = 97 ppm			
	1 (wall (3-9") = 16p		-	-
- L	.V.J.			
S- 15 5 W 4	3 mor wall - 47 pp	n 1328		
1 1 1 1	all 2-9' = 26 ppr			
5-16				
SC-6 South	Boffin a 12' = 100 pp	1350		
SC-7 South	wall 2 19 = usppn	1352		
1	wall 2-9' = 16ppm			
	Ben/2012 2-9 = 36pg			
1				
111 1280	36.48800, 108.02.704	excapation		
	Begin to Back fill			
offside e 1				
Off size e				
				1

3 £3

CLIENT Entopose

DATE 874-13

BY 75C



Site Photography Enterprise Products Lateral 10D-2 (Federal 26-11 17 #2) Pipeline Release

ral 10D-2 (Federal 26-11 17 #2) Pipeline Releas NW 1/4, SE1/4 Section 17 T26N R11W San Juan County, New Mexico

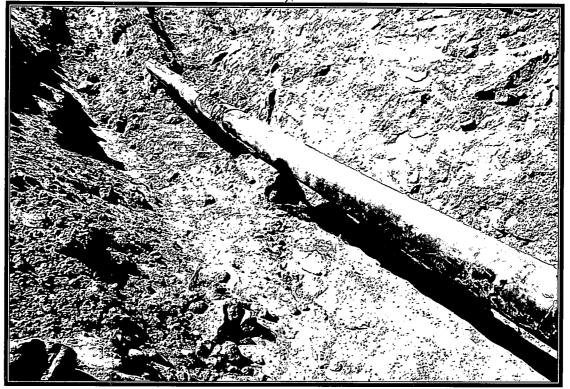


Photo 1: View of the pipeline prior to repairs

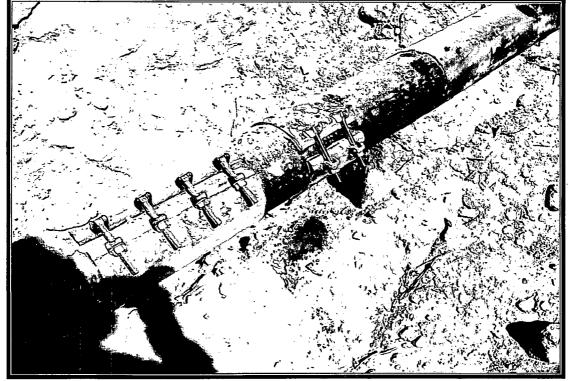


Photo 2: View of the pipeline leaking prior to repairs

Site Photography Enterprise Products Lateral 10D-2 (Federal 26-11 17 #2) Pipeline Release NW 1/4, SE1/4 Section 17 T26N R11W

San Juan County, New Mexico

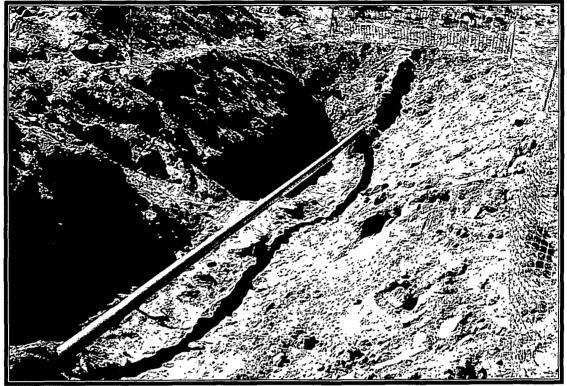


Photo 3: View of the small pipeline and excavation after repairs



Photo 4: View of the excavation for the Lateral 10D-2 pipeline release.

Site Photography Enterprise Products Lateral 10D-2 (Federal 26-11 17 #2) Pipeline Release NW 1/4, SE1/4 Section 17 T26N R11W San Juan County, New Mexico

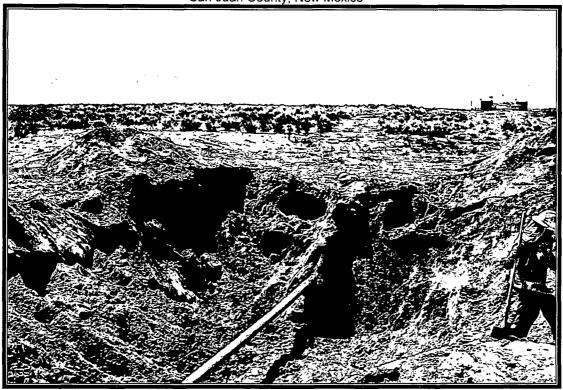


Photo 5: View of the excavation for the Lateral 10D-2 pipeline release.



Photo 6: View of the excavation for the Lateral 10D-2 pipeline release.

Site Photography Enterprise Products Lateral 10D-2 (Federal 26-11 17 #2) Pipeline Release NW 1/4, SE1/4 Section 17 T26N R11W San Juan County, New Mexico

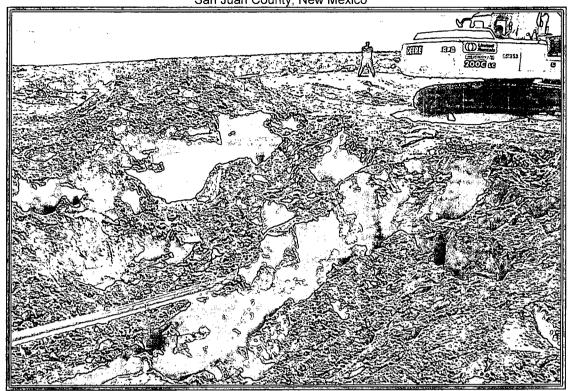


Photo 7: View of the excavation for the Lateral 10D-2 pipeline release.

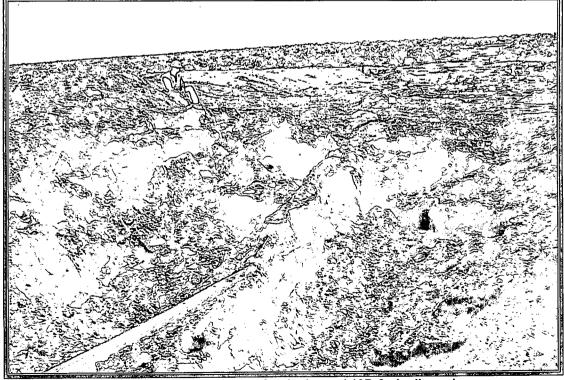


Photo 8: View of the excavation for the Lateral 10D-2 pipeline release.



Bill of Lading

MANIFEST # 44414

DATE 8-13-13

JOB #17057-0582

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401 COMPLETE DESCRIPTION OF SHIPMENT TRANSPORTING COMPANY LOAD NO. POINT OF ORIGIN **DESTINATION GRID YDS DRIVER SIGNATURE MATERIAL BBLS COMPANY** TRK# TIME Enterphise (Alexal cont 10 D-2 PYC/ide MOSS D o U MOSS CI MOSS 15 M055 10 MOSS Ti ,) ((MOS5 C-22 12 (/ r 8 C-22 10 MOSS ١, C-22 MOSS $\overline{\mathcal{M}}$ ι, Li 10 C-22 Mass **RESULTS:** NOTES: LANDFARM CHLORIDE TEST **EMPLOYEE:** Certification of above receival & placement PAINT FILTER TEST

nentioned Generator/Point of Origin and that no additional	material has been added or mixed into the lo		
TRANSPORTER CO. MOSS Excavation	NAME Lee Miss	SIGNATURE Loe Moss	·
COMPANY CONTACT Gory Marstos		DATE 8-13-13	
Signatures required prior to distribution of the legal docume	nnt.		

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above



Bill of Lading

MANIFEST# 44419

DATE 8-14-13

JOB #97057-0582

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

LOAD	СОМІ		TION OF SHIPME			-	TRANSPO	ORTING	COMPA	NY	
NO.	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE	
2	ENTERPRISE CAT 10 D-2	UI	5012	C-22	10	-	MOSS	15	935	Patt B. With	
2	Le V	u u	ko so	C-22	10	_	M055	15	10:30	Path DNE	
3	u a	4 4	V	C-22	10	x	M039	15	' צכון	MAJBW97	
4	V	ર્પ ધ	il u	B-22	10	_	MOSS	15	12:15	Pattern 1	
5	u 4	u U	d U	B-22	10		MDS	15	1305	Post BWFA	
6	4 61	u u	4 4	A-24	10		MOSS	15	13:55	AMSMILL	
7	u u	¢ 4	4	A-24	10	مست	MOSS	15	14:48	JABNIT .	
8	u a	4 4	ş -	A24	10	_	MOSS	15	15:36	THE MET	
9	/(//	11 11	/l /l	4-24	10		MASS	15	1/36	Del BNKK	
										747	
					40						
					0						
RESULTS	S: CHLORIDE TEST 2	LANDFARM EMPLOYEE:	Dave				NOTES:				
	PAINT FILTER TEST 2	Certifi	cation of above re	ceival & pla	cement						
By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load. TRANSPORTER CO. Poss Excavazion NAME Marthan B MS SIGNATURE SIGNATURE											
TRANSPO	RTER CO. 1/055. E	XCAVATA		-	-	(ZN)	SIGNATURE	1 fly	TAL.	11/2	
COMPANY CONTACT PHONE DATE 6-14-13											
§ignature	s required prior to distribution	n of the legal docu	ment.								



Bill of Lading

MANIFEST # 44420

DATE 8./4-/3

JOB # 17057-0582

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401 COMPLETE DESCRIPTION OF SHIPMENT TRANSPORTING COMPANY LOAD NO. POINT OF ORIGIN **DESTINATION** MATERIAL. **GRID YDS BBLS** DRIVER SIGNATURE COMPANY TRK# ENTERPRISO CAY 100-2 U C-22 U Ų u 11 6 U Ų 4 u u 4 6 4 u u 8 11 11 11 1 M 11 IN **RESULTS:** NOTES: **LANDFARM** CHLORIDE TEST **EMPLOYEE:** PAINT FILTER TEST Certification of above receival & placement By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load. TRANSPORTER CO. MOSS EXCAVATION NAME MARK LOTEZ PHONE COMPANY CONTACT Signatures required prior to distribution of the legal document.



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

August 20, 2013

Tom Long Souder, Miller and Associates 2101 San Juan Boulevard Farmington, NM 87401 TEL: (505) 330-0868

FAX

RE: Enterprise Lateral 10D-2

OrderNo.: 1308700

Dear Tom Long:

Hall Environmental Analysis Laboratory received 9 sample(s) on 8/15/2013 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.

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

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1308700

Date Reported: 8/20/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Project: Enterprise Lateral 10D-2

Lab ID: 1308700-001 Client Sample ID: SC-1

Collection Date: 8/14/2013 12:03:00 PM

Received Date: 8/15/2013 10:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	SE ORGANICS				Analyst	: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/19/2013 5:10:25 PM	8897
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/19/2013 5:10:25 PM	8897
Surr: DNOP	81.0	63-147	%REC	1	8/19/2013 5:10:25 PM	8897
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst	t: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/19/2013 2:53:26 PM	8906
Surr: BFB	91.8	80-120	%REC	1	8/19/2013 2:53:26 PM	8906
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.048	mg/Kg	1	8/19/2013 2:53:26 PM	8906
Toluene	ND	0.048	mg/Kg	1	8/19/2013 2:53:26 PM	8906
Ethylbenzene	ND	0.048	mg/Kg	1	8/19/2013 2:53:26 PM	8906
Xylenes, Total	ND	0.096	mg/Kg	1	8/19/2013 2:53:26 PM	8906
Surr: 4-Bromofluorobenzene	105	80-120	%REC	1	8/19/2013 2:53:26 PM	8906

Matrix: SOIL

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

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- 0 RSD is greater than RSDImit
- RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank В
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit
- Not Detected at the Reporting Limit Page 1 of 12 Sample pH greater than 2 for VOA and TOC only. P
- Reporting Detection Limit RL

Lab Order 1308700

Date Reported: 8/20/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: SC-2

Enterprise Lateral 10D-2 Project:

Collection Date: 8/14/2013 12:05:00 PM

Lab ID: 1308700-002

Matrix: SOIL

Received Date: 8/15/2013 10:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS			·	Analys	st: JME
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	8/19/2013 5:32:26 PM	8897
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/19/2013 5:32:26 PM	8897
Surr: DNOP	86.6	63-147	%REC	1	8/19/2013 5:32:26 PM	8897
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	st: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	8/19/2013 4:19:24 PM	8906
Surr: BFB	92.6	80-120	%REC	1	8/19/2013 4:19:24 PM	8906
EPA METHOD 8021B: VOLATILES					Analys	st: NSB
Benzene	ND	0.046	mg/Kg	1	8/19/2013 4:19:24 PM	8906
Toluene	ND	0.046	mg/Kg	1	8/19/2013 4:19:24 PM	8906
Ethylbenzene	ND	0.046	mg/Kg	1	8/19/2013 4:19:24 PM	8906
Xylenes, Total	ND	0.092	mg/Kg	1	8/19/2013 4:19:24 PM	8906
Surr: 4-Bromofluorobenzene	104	80-120	%REC	1	8/19/2013 4:19:24 PM	8906

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

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank В
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit ND
- Page 2 of 12 Sample pH greater than 2 for VOA and TOC only P
- Reporting Detection Limit

Lab Order 1308700

Date Reported: 8/20/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Project: Enterprise Lateral 10D-2

Lab ID: 1308700-003

Client Sample ID: SC-3

Collection Date: 8/14/2013 12:07:00 PM

Received Date: 8/15/2013 10:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS				Analyst	: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/19/2013 5:54:33 PM	8897
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/19/2013 5:54:33 PM	8897
Surr: DNOP	83.0	63-147	%REC	1	8/19/2013 5:54:33 PM	8897
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/19/2013 4:47:59 PM	8906
Surr: BFB	92.7	80-120	%REC	1	8/19/2013 4:47:59 PM	8906
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.047	mg/Kg	1	8/19/2013 4:47:59 PM	8906
Toluene	ND	0.047	mg/Kg	1	8/19/2013 4:47:59 PM	8906
Ethylbenzene	ND	0.047	mg/Kg	1	8/19/2013 4:47:59 PM	8906
Xylenes, Total	ND.	0.095	mg/Kg	1	8/19/2013 4:47:59 PM	8906
Surr: 4-Bromofluorobenzene	104	80-120	%REC	1	8/19/2013 4:47:59 PM	8906

Matrix: SOIL

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

- 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 Page 3 of 12
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Lab Order 1308700

Date Reported: 8/20/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Project: Enterprise Lateral 10D-2

Lab ID: 1308700-004

Client Sample ID: SC-4

Collection Date: 8/14/2013 1:24:00 PM

Received Date: 8/15/2013 10:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analys	st: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/19/2013 6:38:30 PM	8897
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/19/2013 6:38:30 PM	8897
Surr: DNOP	76.9	63-147	%REC	1	8/19/2013 6:38:30 PM	8897
EPA METHOD 8015D: GASOLINE RAM	NGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/19/2013 5:16:45 PM	8906
Surr: BFB	92.4	80-120	%REC	1	8/19/2013 5:16:45 PM	8906
EPA METHOD 8021B: VOLATILES					Analys	st: NSB
Benzene	ND	0.049	mg/Kg	1	8/19/2013 5:16:45 PM	8906
Toluene	ND	0.049	mg/Kg	1	8/19/2013 5:16:45 PM	8906
Ethylbenzene	ND	0.049	mg/Kg	1	8/19/2013 5:16:45 PM	8906
Xylenes, Total	ND	0.097	mg/Kg	1	8/19/2013 5:16:45 PM	8906
Surr: 4-Bromofluorobenzene	104	80-120	%REC	1	8/19/2013 5:16:45 PM	8906

Matrix: SOIL

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

- 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 Page 4 of 12
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Lab Order 1308700

Date Reported: 8/20/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: SC-5

Project: Enterprise Lateral 10D-2

Collection Date: 8/14/2013 1:26:00 PM

Lab ID: 1308700-005

Matrix: SOIL

Received Date: 8/15/2013 10:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS				Analys	: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/19/2013 7:00:27 PM	8897
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/19/2013 7:00:27 PM	8897
Surr: DNOP	80.5	63-147	%REÇ	1	8/19/2013 7:00:27 PM	8897
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/19/2013 5:45:29 PM	8906
Surr: BFB	91.5	80-120	%REC	1	8/19/2013 5:45:29 PM	8906
EPA METHOD 8021B: VOLATILES					Analys	: NSB
Benzene	ND	0.048	mg/Kg	1	8/19/2013 5:45:29 PM	8906
Toluene	ND	0.048	mg/Kg	1	8/19/2013 5:45:29 PM	8906
Ethylbenzene	· ND	0.048	mg/Kg	1	8/19/2013 5:45:29 PM	8906
Xylenes, Total	ND	0.096	mg/Kg	1	8/19/2013 5:45:29 PM	8906
Surr: 4-Bromofluorobenzene	103	80-120	%REC	1	8/19/2013 5:45:29 PM	8906

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

- 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 Page 5 of 12
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Lab Order 1308700

Date Reported: 8/20/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Project: Enterprise Lateral 10D-2

Lab ID: 1308700-006

Client Sample ID: SC-6

Collection Date: 8/14/2013 1:50:00 PM

Received Date: 8/15/2013 10:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	SE ORGANICS				Analys	: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/19/2013 7:22:23 PM	8897
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/19/2013 7:22:23 PM	8897
Surr: DNOP	88.4	63-147	%REC	1	8/19/2013 7:22:23 PM	8897
EPA METHOD 8015D: GASOLINE RA	ANGE				Analys	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/19/2013 6:14:09 PM	8906
Surr: BFB	93.3	80-120	%REC	1	8/19/2013 6:14:09 PM	8906
EPA METHOD 8021B: VOLATILES					Analys	: NSB
Benzene	ND	0.047	. mg/Kg	1	8/19/2013 6:14:09 PM	8906
Toluene	ND	0.047	mg/Kg	1	8/19/2013 6:14:09 PM	8906
Ethylbenzene	ND	0.047	mg/Kg	1	8/19/2013 6:14:09 PM	8906
Xylenes, Total	ND	0.094	mg/Kg	1	8/19/2013 6:14:09 PM	8906
Surr: 4-Bromofluorobenzene	102	80-120	%REC	1	8/19/2013 6:14:09 PM	8906

Matrix: SOIL

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

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDImit
- 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
- Page 6 of 12
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Lab Order 1308700

Date Reported: 8/20/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Enterprise Lateral 10D-2

Lab ID: 1308700-007

Project:

Client Sample ID: SC-7

Collection Date: 8/14/2013 1:52:00 PM

Received Date: 8/15/2013 10:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analys	t: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/19/2013 7:44:17 PM	8897
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/19/2013 7:44:17 PM	8897
Surr: DNOP	77.2	63-147	%REC	1	8/19/2013 7:44:17 PM	8897
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/19/2013 6:42:46 PM	8906
Surr: BFB	91.3	80-120	%REC	1	8/19/2013 6:42:46 PM	8906
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.048	mg/Kg	1	8/19/2013 6:42:46 PM	8906
Toluene	ND	0.048	mg/Kg	1	8/19/2013 6:42:46 PM	8906
Ethylbenzene	ND	0.048	mg/Kg	1	8/19/2013 6:42:46 PM	8906
Xylenes, Total	ND	0.096	mg/Kg	1	8/19/2013 6:42:46 PM	8906
Surr: 4-Bromofluorobenzene	102	80-120	%REC	1	8/19/2013 6:42:46 PM	8906

Matrix: SOIL

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

- 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 Page 7 of 12
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Lab Order 1308700

Date Reported: 8/20/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Enterprise Lateral 10D-2

Lab ID: 1308700-008

Project:

Matrix: SOIL

Client Sample ID: SC-8

Collection Date: 8/14/2013 1:54:00 PM **Received Date:** 8/15/2013 10:10:00 AM

Analyses Result RL Qual Units **DF** Date Analyzed Batch **EPA METHOD 8015D: DIESEL RANGE ORGANICS** Analyst: JME Diesel Range Organics (DRO) 10 mg/Kg 8/19/2013 8:06:17 PM 8897 Motor Oil Range Organics (MRO) ND 50 mg/Kg 8/19/2013 8:06:17 PM 8897 1 Surr: DNOP %REC 82.2 63-147 8/19/2013 8:06:17 PM 8897 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 4.9 mg/Kg 8/19/2013 7:11:24 PM 8906 Surr: BFB 92.2 80-120 %REC 8/19/2013 7:11:24 PM 8906 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.049 mg/Kg 8/19/2013 7:11:24 PM Toluene ND 0.049 mg/Kg 8/19/2013 7:11:24 PM 8906 Ethylbenzene ND 0.049 mg/Kg 8/19/2013 7:11:24 PM 8906 Xylenes, Total ND 0.097 mg/Kg 1 8/19/2013 7:11:24 PM 8906 Surr: 4-Bromofluorobenzene 103 80-120 %REC 8/19/2013 7:11:24 PM 8906

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

- 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 Page 8 of 12
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Lab Order 1308700

Date Reported: 8/20/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Project: Enterprise Lateral 10D-2

Lab ID: 1308700-009

Client Sample ID: SC-9

Collection Date: 8/14/2013 1:56:00 PM

Received Date: 8/15/2013 10:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst	: JME
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	8/19/2013 8:28:07 PM	8897
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/19/2013 8:28:07 PM	8897
Surr: DNOP	80.0	63-147	%REC	1	8/19/2013 8:28:07 PM	8897
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	:: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/19/2013 7:40:03 PM	8906
Surr: BFB	91.3	80-120	, %REC	1	8/19/2013 7:40:03 PM	8906
EPA METHOD 8021B: VOLATILES			•		Analyst	: NSB
Benzene	ND	0.047	mg/Kg	1	8/19/2013 7:40:03 PM	8906
Toluene	ND	0.047	mg/Kg	1	8/19/2013 7:40:03 PM	8906
Ethylbenzene	ND	0.047	mg/Kg	1	8/19/2013 7:40:03 PM	8906
Xylenes, Total	ND	0.094	mg/Kg	1	8/19/2013 7:40:03 PM	8906
Surr: 4-Bromofluorobenzene	103	80-120	%REC	1	8/19/2013 7:40:03 PM	8906

Matrix: SOIL

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

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDIimit
- 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
 - Page 9 of 12
 - P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1308700

20-Aug-13

Client:

Souder, Miller and Associates

Project:

Enterprise Lateral 10D-2

Sample ID MB-8897	SampType: MBLK			TestCode: EPA Method 8015D: Diesel Range Organics								
Client ID: PBS	Batcl	h ID: 88	97	7 RunNo: 12670								
Prep Date: 8/16/2013	Analysis D	Date: 8/	16/2013	S	eqNo: 3	61127	Units: mg/K	(g				
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	9.0		10.00		90.0	63	147					

Sample ID LCS-8897	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Dies	el Range (Organics	
Client ID: LCSS	Batch	n ID: 88	97	F	RunNo: 1	2670				
Prep Date: 8/16/2013	Analysis D)ate: 8/	16/2013	9	SeqNo: 3	61260	Units: mg/h	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.9	77.1	128			
Surr: DNOP	3.5		5.000		69.8	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
- 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

Page 10 of 12

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1308700

20-Aug-13

Client:

Souder, Miller and Associates

Project:

Enterprise Lateral 10D-2

Sample ID MB-8906	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8015D: Gaso	line Rang	е	
Client ID: PBS	Batch	1D: 89	06	R	lunNo: 1	2721				
Prep Date: 8/16/2013	Analysis D	ate: 8/	19/2013	S	SeqNo: 3	62533	Units: mg/k	(g		
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	80	120			

Sample ID LCS-8906	SampType: LCS			Tes	е							
Client ID: LCSS	Batch	Batch ID: 8906			RunNo: 1	2721						
rep Date: 8/16/2013 Analysis Date: 8/19/2013				S	SeqNo: 3	62534	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRO)	26	5.0	25.00	0	105	74.5	126					
Surr: BFB	980		1000		98.3	80	120					

Sample ID 1308700-001A	IS Samp1	Гуре: МЅ	 }	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID: SC-1	Batcl	h ID: 89	06	F	RunNo: 1	2721				
Prep Date: 8/16/2013	Analysis [Date: 8/	9/2013 SeqNo: 362537 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.8	23.90	0	102	76	156			
Surr: BFB	950		956.0		99.4	80	120			

Sample ID 1308700-001AMS	SD SampT	ype: MS	SD	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	е	
Client ID: SC-1	Batch	ID: 89	06	F	RunNo: 1	2721				
Prep Date: 8/16/2013 Analysis Date: 8/19/2013 SeqNo: 362538 Units: mg/Kg										
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.8	23.88	0	106	76	156	4.01	17.7	
Surr: BFB	960		955.1		101	80	120	0	0	

- * 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
- Page 11 of 12
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1308700

20-Aug-13

Client:

Souder, Miller and Associates

Project:

Enterprise Lateral 10D-2

Sample ID MB-8906	SampT	Type: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PB\$	Batcl	h ID: 89	06	F	tunNo: 1	2721				
Prep Date: 8/16/2013	Analysis C	Date: 8/	19/2013	S	SeqNo: 30	62557	Units: mg/K	(g		
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-8906	Samp	Гуре: LC	s	Tes	tiles					
Client ID: LCSS	Batc	h ID: 89	06	F	RunNo: 1	2721				
Prep Date: 8/16/2013	, , , , , , , , , , , , , , , , , , , ,				SeqNo: 3	62558	Units: mg/h	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	105	80	120			
Toluene	1.0	0.050	1.000	0	99.8	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.1	0.10	3.000	. 0	103	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	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

Page 12 of 12



Page 1 of 1

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallervironmental.com

Sample Log-In Check List

Client Name: SMA-FARM Work Order Number: 1308700 RcptNo: 1 Received by/date: Logged By: Lindsay Mangin 8/15/2013 10:10:00 AM Completed By: Lindsay Mangin 8/16/2013 6:45:36 AM 08/16/13 Reviewed By: Chain of Custody 1 Custody seals intact on sample bottles? Not Present ♥ Yes 2. Is Chain of Custody complete? Yes 🗸 Not Present 3. How was the sample delivered? Courier Log In 4. Was an attempt made to cool the samples? No Yes 5. Were all samples received at a temperature of >0° C to 6.0°C No ! NA I Yes :✓ 6. Sample(s) in proper container(s)? No i 7. Sufficient sample volume for indicated test(s)? Yes 🗸 8. Are samples (except VOA and ONG) properly preserved? NA : 9. Was preservative added to bottles? Yes No 🗸 10. VOA vials have zero headspace? Yes No : No VOA Vials V 11. Were any sample containers received broken? Yes No V # of preserved bottles checked for pH: 12. Does paperwork match bottle labels? No Yes (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 13. Are matrices correctly identified on Chain of Custody? 14. Is it clear what analyses were requested? Nο Checked by: 15. Were all holding times able to be met? No (If no, notify customer for authorization.) Special Handling (if applicable) 16. Was client notified of all discrepancies with this order? Yes 🗸 NA Person Notified: Thomas Long Date: 8/16/2013 By Whom: Ashley Gallegos Via: eMail Phone Fax In Person Sample IDs. (see section 19.) Regarding: Client Instructions: Go with IDs on the jars. 17. Additional remarks: Sample -001 label says SC-1 lid says SC-2, Sample -002 label says SC-2 lid says SC-1. AMG 08/16/2013 18. Cooler Information Cooler No | Temp °C | Condition | Seal Intact | Seal No |

ONCIA.	5MA			@ Standard	□ Rush					AN										7
				Project Name	Enterpose	•				WW	w.ha	llenv	ironi	ment	tal.co	om				
Mailing	Address	2101	San Juan Blod.	Lateral	100-2			490	11 Ha	wkins	NE -	- Alt	uqu	erqu	e, N	M 87	′109			
		NM		Project #:	192164			Tel	l. 5 05	-345-3	3975	f	ах	505-	345-	4107	7			
		335-			103164							nal	/sis	Req	uesi					
email or	Fax#:	com.lon	ge Soudermillarcon	Project Mana	ger:		ਜ	Only)	80			}	(Po	6						
QA/QC F	ackage: dard		☐ Level 4 (Full Validation)	7	homes, Lon	9	TMB's (8021)	(Gas c	RO/M		MS)		,PO4,S	2 PCB'						
☐ Othe	٢			Sampler: 7:	J し			F	2	= =	So.		NO,	/ 8082			, }			î
□ EDD	(Type) _	 		On Ice Sample Tein	Yes	□ No ⊘	1 40	+	8	504	827	얉	လို့ လ	es/		8	, 1			Y or N
Date	Time	Matrix	Sample Request ID		Preservative Type		BTEX + MIBE	BTEX + MTBE + TPH (Gas	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1) EDB (Method 504.1)	PAH (8310 o	RCRA 8 Met	Anions (F,Cl,NO3,NO2,PO4,SO4)	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)				Air Bubbles (Y
8-14-13	1203	Soil	Sc-1	Yor Zar	Cool	-001	χ		X										\top	T
	1705		SL-d			-002	×		7										\Box	T
	1207		SC-3			-003	7		7											T
	1324		SC-4			-004	X		4											$\overline{1}$
	1326		56-5			-005	X		X										floor	\prod
	1350		SC-6			-00h	ير		4										\perp	
	1359		Sc-7			-007	X		}									\perp		
	1354		SC-8			-008	X		>									_	\perp	
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7-14-13	1700	Tho	nes Lang	Peceived by:	ملهول	81	Ken	narks		Bin	70	EV	r to	(ber	3e_					
8/14/B	1743	A L	the Wale	Deceived by.	A	08/15/13 (010)														

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

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

		····							⊠ Initi:	al Report		Final Report
			gton, NN	87401				124				
Facility Nan	ne Trunk	K				Facility Typ	e Pipeline		·			
Surface Owi	ner BLM			Mineral C	wner	BLM			API No),		
				LOCA	TIO	N OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the	North	/South Line	Feet from the	East/W	est Line	County		
В	26	27N	8W		1					San Juan		
		Latitu	de_N36.	549087		Longitud	eW107.648	63		_		
_	Attached Company Enterprise Field Services LLC Contact Runch Scale Markers of 14 Relight Ave, Farmington, NM 87401 Telephone No. (505) 599-2124 Colify Name Trunk K Facility Type Pipeline Facility Type Pi											
				produced water		50+MCF			Volume 1	Recovered		
Source of Re	lease 16" s	piral weld pi	oeline				lour of Occurrence	ce				
Was Immedia	ate Notice (Given?			·		Whom?	L	21412013	Late after no	7011	
			Yes [] No 🛛 Not Re	equired			, notified	l by emai	1		
			;									
Was a Watero	course Read		Yes 🗵] No		If YES, Vo	olume Impacting t	the Wate	rcourse.	UIL CINS		р
If a Watercou	irse was Im	pacted, Descr	ibe Fully.	k								
After the pip 9/9/2013. State Describe Are A third part screening an	oeline leak ained soils a Affected y environn d laborato	was detected were remove and Cleanup nental contra ry analytical	Action Tal	was blown down, e location and ha	auled to	o an OCD ap	proved landfarm	n.	for excav	ation extents	s based	on field
								 	1.1	200	0.00	
regulations al public health should their of or the environ	Il operators or the envi operations h nment. In a	are required to ronment. The nave failed to addition, NMO	o report a acceptan adequately OCD accep	nd/or file certain in the ce of a C-141 report investigate and in the certain in	elease i ort by th emedia	notifications a he NMOCD in te contaminat	nd perform correct parked as "Final Ricon that pose a thr	ctive acti Report" d reat to gr	ons for re oes not re ound wate	leases which lieve the oper er, surface wa	may en rator of iter, hur	danger Iiability nan health
•		1		1.			OIL CON	SERV	ATION	DIVISIO	N	
Signature:		en t	ulsb			4 11	P 1 10	N	0 =	the i	1.	
Printed Name	e: Jon E. F	Fields				Approved by	Environmental S	specialist) pur	MOSE	uy	
Title: Direct	tor – Field	Compliance				Approval Da	te: 10/22/20	13 1	Expiration	Date:		
E-mail Addre	l Address: jefields@eprod.com					Conditions o	f Approval:		Attached			
	5/2013	Phone: 7		584								>
Attach Addit	tional She	ets It Necess	ary				NJ	K 13	295	41249		(1)

<u>District I</u> 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

State of New Mexico **Energy Minerals and Natural Resources**

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe. NM 87505 **Release Notification and Corrective Action OPERATOR** Initial Report ☐ Final Report Name of Company Enterprise Field Services, LLC Contact Aaron Dailey Address 614 Reilly Avenue, Farmington NM 87401 Telephone No. (505)599-2286 Facility Name Lateral 3B-71 Pipeline Facility Type Natural gas pipeline Surface Owner BLM Mineral Owner BLM API No. **LOCATION OF RELEASE** Township Feet from the North/South Line Feet from the Unit Letter Section Range East/West Line County 29N 8W San Juan Latitude N 36.7406 Longitude W 107.7102 (Decimal Degrees) NATURE OF RELEASE Type of Release Natural gas vapor and some liquid Volume of Release 1592 MCF Volume Recovered 0 gas, remediation gas and 15-25 gallons liquid completed to OCD and BLM standard Source of Release Natural gas pipeline Date and Hour of Occurrence Date and Hour of Discovery 12/23/2012 @ 06:00 hours 12/24/2012 @ 14:00 hours (estimated) If YES, To Whom? Was Immediate Notice Given? Brandon Powell, NM OCD Aztec District, Sherrie Landon, BLM By Whom? Aaron Dailey Date and Hour 12/24/2012 @ 23:43 hours (e-mail), follow up phone call and e-mail on 12/27/2012 @ 08:30 hours Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes 🛛 No RCVD SEP 3 '13 If a Watercourse was Impacted, Describe Fully.* OIL COMS, DIV. Describe Cause of Problem and Remedial Action Taken.* Third party contacted Enterprise gas control about a pipeline leak. Enterprise personnel verified leak to be a split leg-off 4 inch pipeline near mile marker 81 off of US highway 64, which was caused by recent cold weather events. The pipeline was isolated and rendered out of service. Cleanup was conducted in warmer weather when snow and ice melted to allow for safer access to the cliff area. Describe Area Affected and Cleanup Action Taken.* Significant gas loss to atmosphere; some overspray and hydrocarbon impacted soil was discovered. A third party contractor applied a mild simple green/water solution to the sandstone cliff to remove the hydrocarbon stains on the sandstone. Any saturated hydrocarbon impacted soil was removed and transported to an OCD approved landfarm facility. Please refer to the attached third party corrective action report for details. 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. OIL CONSERVATION DIVISION Signature: Printed Name: Matt Marra Approved by Environmental Specialist: Approval Date: 12/4/2013 Title: Senior Director, Environmental E-mail Address: memarra@eprod.com Conditions of Approval:

Date: 9 - 29 - 20 Phone: (713)381-6684 Attach Additional Sheets If Necessary

n5K133385466

Attached |



August 21, 2013

Project Number 97057-0538

Phone: (505) 427-1719

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

RE: SPILL CLEANUP REPORT FOR A PIPELINE SPILL AT PIPELINE LATERAL 3B-71 IN SAN JUAN COUNTY, NEW MEXICO.

Dear Mr. Dailey:

Enclosed please find the *Spill Cleanup Report* detailing spill cleanup activities conducted at Pipeline Lateral 3B-71 located in Section 7, Township 29 North, Range 8 West, San Juan County, New Mexico.

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

Respectfully submitted,

ENVIROTECH, INC.

Felipe Aragon, CES

Project Manager

faragon@envirotech-inc.com

Enclosures: Spill Cleanup Report

Cc: Client File Number 97057

envioledi-luccom

ENTERPRISE PRODUCTS SPILL CLEANUP REPORT PIPELINE LATERAL 3B-71 SECTION 7, TOWNSHIP 29 NORTH, RANGE 8 WEST SAN JUAN COUNTY, NEW MEXICO

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Enterprise Products Spill Cleanup Report Pipeline Lateral 3B-71 Project Number 97057-0538 March 2013 Page 1

Introduction

Envirotech, Inc. of Farmington, New Mexico, was contracted by Enterprise Products to provide spill cleanup activities for a release of liquid hydrocarbon from a pipeline located in San Juan County, New Mexico; see *Figure 1*, *Vicinity Map*. An unknown amount of liquid hydrocarbons was released from the pipeline lateral 3B-71, no standing puddles were found but staining was apparent on the rock face the pipeline ran down; see *Figure 2*, *Site Map* and *Appendix B*, *Site Photography*. Activities included washing the rock face, sample collection, sample analysis, documentation and reporting.

ACTIVITIES PERFORMED

Envirotech, Inc. was contacted on January 2, 2013, with a request to respond to a release that occurred at the above referenced location. Upon arrival, a brief site assessment was conducted. Because distance to surface water is less than 200 feet from the release, depth to groundwater greater than 100 feet, and the well site not located within a well head protection area, the regulatory standards for the site were determined to be 100 parts per million (ppm) total petroleum hydrocarbons (TPH) and 100 ppm organic vapors, pursuant to New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases. The area of release was snow covered so it was determined to return to the site at a later date to complete cleanup activities.

Envirotech personnel returned to the site on March 15, 2013 to conduct cleanup and sampling activities. Site cleanup activities included spraying down the rock face with a power washer and scrubbing the rock face using Micro-Blaze and Simple Green. Absorbing booms were placed at the bottom of the rock face in order to catch and filter runoff from cleanup activities. The affected area, downgradient of the rock face, was divided into two (2) sections, Section #1 covered the area between the rock face to 20 feet out from the rock face. Section #2 covered the area 20 feet to 40 feet beyond Section #1; see Figure 2, Site Map. One (1) sample was collected from each section, both samples were placed into a four (4)-ounce glass jar, capped headspace free, and transported on ice, under chain of custody, to Envirotech's Analytical Laboratory to be analyzed for TPH using USEPA Method 8015 and for total BTEX using USEPA Method 8021. Section #1 returned results below the regulatory standards for all constituents analyzed and Section #2 returned results below regulatory standards for total BTEX, but above the regulatory standard for TPH; see Table 1, Summary of Analytical Results.

Micro-Blaze contains nutrients and bacteria that when applied to a hydrocarbon-based contaminant, it begins breaking down the contaminants for more efficient degradation, into byproducts like carbon dioxide, water, and salts. It was determined that Envirotech would return to re-test soils at a later date to allow for microbial breakdown of the impacted area. Envirotech personnel returned to the site on April 1, 2013, to collect one (1) soil sample from Section #2. The Section #2 sample was placed into a four (4)-ounce glass jar, capped headspace free, and transported on ice, under chain of custody, to Envirotech's Analytical Laboratory to be analyzed for TPH using USEPA Method 8015. The sample returned results above the regulatory standard

Enterprise Products Spill Cleanup Report Pipeline Lateral 3B-71 Project Number 97057-0538 March 2013 Page 2

for TPH; see Table 1, Summary of Analytical Results.

Further microbial degradation was allowed for the site, Envirotech personnel returned to the site for the third time on May 8, 2013, to collect one (1) soil sample from Section #2. The Section #2 sample was placed into a four (4)-ounce glass jar, capped headspace free, and transported on ice, under chain of custody, to Envirotech's Analytical Laboratory to be analyzed for TPH using USEPA Method 8015. The sample returned results below the regulatory standard for TPH; see *Table 1, Summary of Analytical Results*. Based on the above mentioned results, Envirotech recommends no further action in regards to this incident.

SUMMARY AND CONCLUSIONS

Spill cleanup activities were performed for a release of liquid hydrocarbon from a pipeline located in San Juan County, New Mexico. The impacted rock face was cleaned and soils affected by the runoff were monitored for the need of further remediation. Due to analysis results and the microbial degradation, it was determined that no soils needed to be removed. Envirotech, Inc. recommends no further action in regards to this incident.

STATEMENT OF LIMITATIONS

Envirotech, Inc. has completed spill cleanup activities for a release spill cleanup activities for a release of liquid hydrocarbons from a pipeline located in San Juan County, New Mexico. The work and services provided by Envirotech, Inc. were in accordance with the New Mexico Oil Conservation Division standards. All observations and conclusions provided here are based on the information and current site conditions found at the site of the incident.

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

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

Respectfully Submitted,

ENVIROTECH, INC.

Felipe Aragon, CES

Environmental Field Technician

faragon@envirotech-inc.com

Reviewed by:

Greg Crabtree, PE

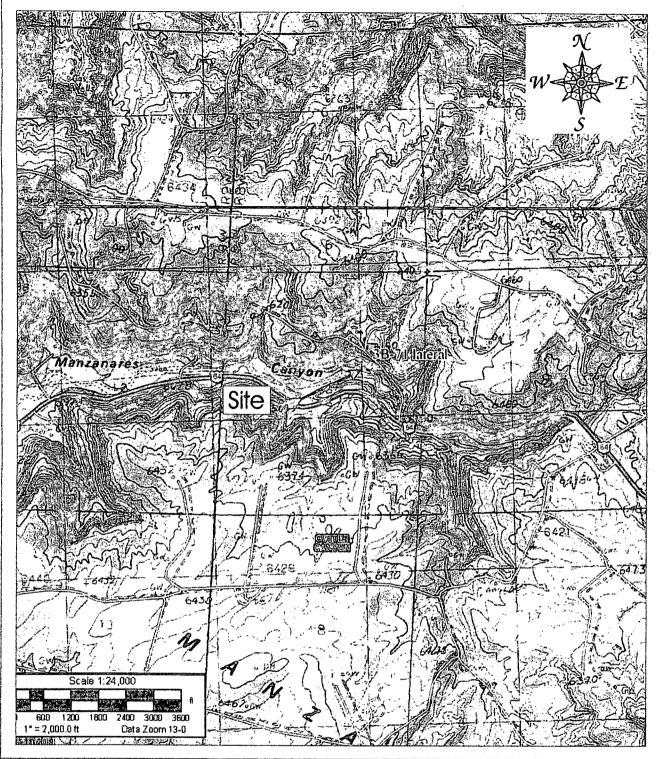
Environmental Manager

gcrabtree@envirotech-inc.com

FIGURES

Figure 1, Vicinity Map

Figure 2, Site Map



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

Enterprise Products
Pipeline Lateral 3B-71
Section 7, Township 29N, Range 8W
San Juan County, New Mexico

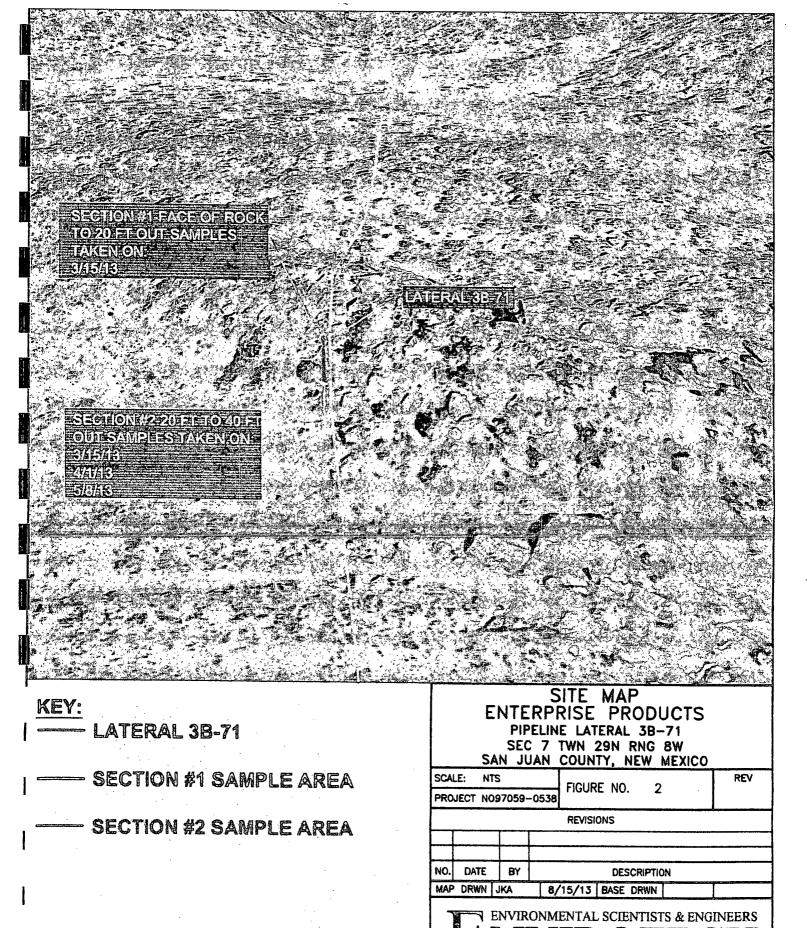
PROJECT Number:97057-0538 Date Drawn: 8/15/13



5796 U.S. HIGHWAY 64 Farmington, New Mexico 87401 505.632.0615 Vicinity Map

Figure #1

DRAWN BY: Jen Allison PROJECT MANAGER: Greg Crobtree



5796 U.S. HIGHWAY 64, FARMINGTON, NM 87410 505-632-0615

TABLES

Table 1, Summary of Analytical Results

Table 1, Summary of Analytical Results

Enterprise Products Pipeline Lateral 3B-71 Spill Cleanup Report Project Number 97057-0538

			Method	USEPA Me	ethod 8021
Date	Sample Description	Sample Number	8015 TPH (ppm)	Benzene (ppm)	BTEX (ppm)
NA	New Mexico Oil Conservation Division Standards	NA	100	10	50
3/15/2013	Section #1: Rock Face to 20' out	Section #1	6.9	ND	1.59
3/15/2013	Section #2: 20'-40' out	Section #2	111	ND	17.4
4/1/2013	Section #2: 20'-40' out	Section #2	813	NS_	NS
5/8/2013	Section #2: 20'-40' out	Section #2	47.8	S S NS S S S	NS .

^{*}Values in **BOLD** above regulatory limits
*Closure Sample

^{*}NS - Parameter not sampled *ND - Parameter not detected

APPENDIX A

Analytical Results



Report Summary

Client: Enterprise Products

Chain Of Custody Number: 15305

Samples Received: 3/18/2013 10:20:00AM

Job Number: 97057-0538 Work Order: P303057

Project Name/Location: Spill Clean up/3B-71

pipeline

Tim Cain, Laboratory Manager

Entire Report Reviewed By:

Date:

3/19/13

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this

analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Section #1	P303057-01A	Soil	03/15/13	03/18/13	Glass Jar, 4 oz.
Section #2	P303057-02A	Soil	03/15/13	03/18/13	Glass Jar, 4 oz.

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Section #1 P303057-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	49.9	ug/L	1	1312001	18-Mar-13	18-Mar-13	EPA 8021B	
Toluene	111	49.9	ug/L	1	1312001	18-Mar-13	. 18-Mar-13	EPA 8021B	
Ethylbenzene	64.5	49.9	ug/L	1	1312001	18-Mar-13	18-Mar-13	EPA 8021B	
p,m-Xylene	1210	49.9	ug/L	1	1312001	18-Mar-13	18-Mar-13	EPA 8021B	
o-Xylene	198	49.9	ug/L	1	1312001	18-Mar-13	18-Mar-13	EPA 8021B	
Total BTEX	1590	49.9	ug/L	1	1312001	18-Mar-13	18-Mar-13	EPA 8021B	
Surrogate: Bromochlorohenzene		136 %	80	120	1312001	18-Mar-13	18-Mar-13	EPA 8021B	S1
Surrogate: 1,4-Difluorobenzene		108 %	80-	120	1312001	18-Mar-13	18-Mar-13	EPA 8021B	
Surrogate: Fluorobenzenc		106 %	80-	120	1312001	18-Mar-13	18-Mar-13	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	5.0	mg/kg	ı	1312002	18-Mar-13	18-Mar-13	EPA 8015D	
Diesel Range Organics (C10-C28)	6.9	5.0	mg/kg	1	1312002	18-Mar-13	18-Mar-13	EPA 8015D	
GRO and DRO Combined Fractions	6.9	5.0	mg/kg	1	1312002	18-Mar-13	18-Mar-13	EPA 8015D	

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Section #2 P303057-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<u></u>									110103
Volatile Organics by EPA 8021		400		10	1313001	10.14 12		F.D. 4 000 + D	
Benzene	ND	499	ug/L	10	1312001	18-Mar-13	18-Mar-13	EPA 8021B	
Toluene	957	499	ug/L	10	1312001	18-Mar-13	18-Mar-13	EPA 8021B	
Ethylbenzene	701	499	ug/L	10	1312001	18-Mar-13	18-Mar-13	EPA 8021B	
p,m-Xylene	12700	499	ug/L	10	1312001	18-Mar-13	18-Mar-13	EPA 8021B	
o-Xylene	3060	499	ug/L	10	1312001	18-Mar-13	18-Mar-13	EPA 8021B	
Total BTEX	17400	499	ug/L	10	1312001	18-Mar-13	18-Mar-13	EPA 8021B	
Surrogate: Bromochlorobenzene		187 %	80-	120	1312001	18-Mar-13	18-Mar-13	EPA 8021B	SI
Surrogate: 1,4-Difluorobenzene		100 %	80-	120	1312001	18-Mar-13	18-Mar-13	EPA 8021B	
Surrogate: Fluorobenzene		98.7 %	80-	120	1312001	18-Mar-13	18-Mar-13	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	32.1	5.0	mg/kg	1	1312002	18-Mar-13	18-Mar-13	EPA 8015D	
Diesel Range Organics (C10-C28)	78.5	5.0	mg/kg	i	1312002	18-Mar-13	18-Mar-13	EPA 8015D	
GRO and DRO Combined Fractions	111	5.0	mg/kg	1	1312002	18-Mar-13	18-Mar-13	EPA 8015D	

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Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

	D	Reporting	** - **.	Spike	Source	NAME	%REC	222	RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1312001 - Purge and Trap EPA 5030A	*****									
Blank (1312001-BLK1)				Prepared &	Analyzed:	18-Mar-13				
Benzene	ND	50.0	ug/L							
Toluene	ND .	50.0	11							
Ethylbenzene	ND	50.0	11							
p,m-Xylene	ND	50.0	u							
o-Xylene	ND	50.0	**							
Total BTEX	ND	50.0	11							
Surrogate: Bromochlorobenzene	50.6 .		"	50.0		101	80-120			
Surrogate: 1,4-Difluorobenzene	48.7		a	50.0		97.5	80-120			
Surrogate: Fluorobenzene	50.5		"	50.0		101	80-120			,
Duplicate (1312001-DUP1)	Sou	rce: P303056-	01	Prepared &	Analyzed:	18-Mar-13				
Benzene	ND	50.0	ug/L		ND				30	
Tolucne	ND	50.0	*		ND				30	
Ethylbenzene	ND	50.0	н		ND				30	
p,m-Xylenc	ND	50.0	u		ND				30	
o-Xylene	ND	50.0	11		ND				30	
Surrogate: Bromochlarobenzene	51.2		17	50.0		102	80-120			
Surrogate: 1,4-Difluorobenzene	48.2		u	50.0		96.5	80-120			
Surrogate: Fluorobenzene	49.8		ri .	50.0		99.6	80-120			
Matrix Spike (1312001-MS1)	Source: P303056-01			Prepared & Analyzed: 18-Mar-13						
Benzene	15.8		ug/L	50.0	0.20	31.2	39-150			SP1
Tolucne	50.8		n	50.0	0.52	101	46-148			
Ethylbenzene	50.6		n	50.0	0.10	101	32-160			
p,m-Xylene	101		**	100	0.70	100	46-148			
o-Xylene	50.7		**	50.0	0.37	101	46-148			
Surrogate: Bromochlorobenzene	51.6		*	50.0		103	80-120			
Surrogate: 1,4-Difluorobenzene	48.6		n	50.0		97.2	80-120			
Surrogate: Fluorobenzene	48.6		**	50.0		97.2	80-120			

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Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC .	Limits	RPD	Limit	Notes
Batch 1312002 - GRO/DRO Extraction	on EPA 3550C	<u> </u>								
Blank (1312002-BLK1)				Prepared &	Analyzed:	18-Mar-13				
Gasoline Range Organics (C6-C10)	ND	5.0	mg/kg							
Diesel Range Organics (C10-C28)	ND	5.0	41							
GRO and DRO Combined Fractions	ND	5.0	n							
Duplicate (1312002-DUP1)	Sour	Source: P303056-01			Prepared & Analyzed: 18-Mar-13					
Gasoline Range Organics (C6-C10)	ND	5.0	mg/kg		ND				30	
Diesel Range Organics (C10-C28)	ND	5.0	11		ND				30	
Matrix Spike (1312002-MS1)	Sour	Source: P303056-01			Prepared & Analyzed: 18-Mar-13					
Gasoline Runge Organics (C6-C10)	207		mg/L	250	0.5	82.7	75-125			
Diesel Range Organics (C10-C28)	208		**	250	4.6	81.2	75-125			

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Notes and Definitions

SP1	The spike recovery for this QC sample is outside of control limits.
-----	---

SI Surrogate recovery was above acceptable limits.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

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Rush

CHAIN OF CUSTODY RECORD

15305

Client: L VterPrise		Pr	oject Name / Locati	on: 1 4 p	13	8	7/	P	اسم	ine	•		Α	NAL	YSIS	/ PA!	RAMI	ETEF	RS			
Client: F-Hragon Client Phone No.:		Sa	mpler Name: F. Aragent No.: 9705	01					TPH (Method 8015)		VOC (Method 8260)	RCRA 8 Metals	Anion		ith H/P	CO Table 910-1	8.1)	IDE			Cool	Intact
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./	Volume Intainers	7	reserval	tive	TPH (M	BTEX (1	VOC (M	RCRA 8	Cation / Anion	RCI	TCLP with H/P	CO Tab	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
Section #1	3-75-18	14:20	P303057-01	10	402			X	X	>											X	1
Section #1 Section #2	315-13	14:36	P303057-00	1-	102			〉	ン	\searrow			-									<i>,</i>
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Sample Matrix Soil Solid Sludge	Aqueous 🗌	Other []																				
Sample(s) dropped off after t			fares	3	M V Ana	Îľ(⊃¦(al La	e (3 h) '	**************************************											
5795 US Highway 64	 Farmingto 	n. NM 8740	1 • 505-632-0615 • T	tıree Spri	ngs • 65 M	Merca	do Stre	eet, Si	uite 1	15, Du	urang	o, C	O 813	01 •	labor	atory	@en	virote	ch-inc	.com		



Analytical Report

Report Summary

Client: Enterprise Products

Chain Of Custody Number: 15355

Samples Received: 4/2/2013 10:50:00AM

Job Number: 97057-0538

Work Order: P304005

Project Name/Location: Spill Cleanup / 3B-71

Lateral

Entire Report Reviewed By:

Date: 4/3/13

Tim Cain, Laboratory Manager

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



Project Name:

Spill Cleanup / 3B-71 Lateral

614 Reilly Ave Farmington NM, 87401 Project Number: Project Manager: 97057-0538 Felipe Aragon

Reported: 03-Apr-13 10:41

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Section 2	P304005-01A	Soil	04/01/13	04/02/13	Glass Jar, 4 oz.



Project Name:

Spill Cleanup / 3B-71 Lateral

614 Reilly Ave

Project Number:

97057-0538

Reported:

Farmington NM, 87401

Project Manager:

Felipe Aragon

03-Apr-13 10:41

Section 2 P304005-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Nonhalogenated Organics by 8015 Gasoline Range Organics (C6-C10)	88.6	5.00	mg/kg	1	1314018	02-Apr-13	02-Apr-13	EPA 8015D	
Diesel Range Organics (C10-C28) GRO and DRO Combined Fractions	725 813	5.00 5.00	mg/kg mg/kg	1	1314018 1314018	02-Apr-13 02-Apr-13	02-Apr-13 02-Apr-13	EPA 8015D EPA 8015D	





Farmington NM, 87401

Project Name:

Spill Cleanup / 3B-71 Lateral

614 Reilly Ave

Project Number:

97057-0538

Reported:

Project Manager:

Felipe Aragon

03-Apr-13 10:41

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1314018 - GRO/DRO Extraction	EPA 3550C									
Blank (1314018-BLK1)	·			Prepared &	Analyzed:	02-Apr-13				
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg							
Diesel Range Organics (C10-C28)	ND	5.00	0							
GRO and DRO Combined Fractions	ND	5.00	**							
Duplicate (1314018-DUP1)	Source	e: P 304005-	01	Prepared &	Analyzed:	02-Apr-13				
Gasoline Range Organics (C6-C10)	82.6	5.00	mg/kg		88.6			7.02	30	
Diesel Range Organics (C10-C28)	708	5.00	**		725			2.36	30	
Matrix Spike (1314018-MS1)	Source	e: P304005 -	01	Prepared &	Analyzed:	02-Apr-13				
Gasoline Range Organics (C6-C10)	359	5.26	mg/kg	263	88.6	103	75-125			
Diesel Range Organics (C10-C28)	1010	5.26	п	263	725	107	75-125			





Farmington NM, 87401

Project Name:

Spill Cleanup / 3B-71 Lateral

614 Reilly Ave

Project Number: Project Manager: 97057-0538 Felipe Aragon Reported:

03-Apr-13 10:41

Notes and Definitions

DET

Analyte DETECTED

ND

Analyte NOT DETECTED at or above the reporting limit

NR

Not Reported

dry

Sample results reported on a dry weight basis

RPD

Relative Percent Difference



Rush Client: Enterpo. se		CHAIN OF CUSIODY RECORD								4	53	55			:							
Client: ENterps. Se		Pr 5	oject Name / Location	ion:	5-71	Let	4/0	0					A	NALY	/SIS	/ PAF	RAMÉ	ETERS	s			
Email results to:		Sa	ampler Name: F / 1 co (o.) ient No.:						8015)	BTEX (Method 8021)	8260)	<u>s</u>			۵	<u>-</u>						
Client Phone No.:		CI.	ient No.: 97057 -	05.	38				TPH (Method 8015)	(Metho	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion		TCLP with H/P	CO Table 910-1	418.1)	RIDE			e Cool	Sample Intact
Sample No./ Identification	Sample Date	Sample Time	Lab No.		/Volume ontainers		Preservat	itive	TPH ()	втех	voc (RCRA	Cation	EG.	TCLP	CO Ta	TPH (418.1)	CHLORIDE			Sample	Sampl
Section 2	4-1-13	1430	P304005-01	1-9	402			X	1												X	X
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Relinquished by: (Signature)		<u> </u>		Date 4-2-13	Time /0.50		eived b	y: (Si	ignatı (ure)	 .0	─ 从	一 人 人	<u></u> '	<u></u>	<u> </u>				Date 4) A		Time
Relinquished by: (Signature)	7						eived b	y: (Si	ignatu	ure)				J,	~_ \		 -		***************************************	T + -		
Sample Matrix Soil []Z Solid Sludge	Aqueous []] Other □					transfer for the later. The															
Sample(s) dropped off after			ff area.		≥ M V Ana																	

, F



Analytical Report

Report Summary

Client: Enterprise Products

Chain Of Custody Number: 15511

-Samples Received: 5/8/2013 4:10:00PM

Job Number: 97057-0538

Work Order: P305023

Project Name/Location: Spill Cleanup / 3B-71

pipeline

Entire	Report	Reviewed	By:
-11010	· copoit	· (Culcucu	∪ , .

11 10

Tim Cain, Laboratory Manager

Date:

5/10/13

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

5796 US Highway 64, Farmington, NM 87401

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

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





Farmington NM, 87401

Project Name:

Spill Cleanup / 3B-71 pipeline

614 Reilly Ave

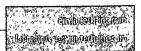
Project Number: Project Manager: 97057-0538 Felipe Aragon

Reported:

10-May-13 11:36

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Section 2	P305023-01A	Soil	05/08/13	05/08/13	Glass Jar, 4 oz.





Farmington NM, 87401

Project Name:

Spill Cleanup / 3B-71 pipeline

614 Reilly Ave

Project Number:

97057-0538

Reported:

Project Manager:

Felipe Aragon

10-May-13 11:36

Section 2 P305023-01 (Solid)

Analyte Nonhalogenated Organics by 8015	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1319019	09-May-13	09-May-13	EPA 8015D	
Diesel Range Organics (C10-C28)	47.8	4.99	mg/kg	1	1319019	09-May-13	09-May-13	EPA 8015D	
GRO and DRO Combined Fractions	47.8	4.99	mg/kg	1	1319019	09-May-13	09-May-13	EPA 8015D	





Project Name:

Spill Cleanup / 3B-71 pipeline

614 Reilly Ave

Project Number: Project Manager:

Reporting

97057-0538

Spike

Source

Reported:

RPD

%REC

Farmington NM, 87401

Felipe Aragon

10-May-13 11:36

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Limit	Units	Level	Result	%REC	·Limits	RPD	Limit	Notes
Batch 1319019 - GRO/DRO Extraction	on EPA 3550C									
Blank (1319019-BLK1)				Prepared &	¿ Analyzed:	09-May-1	3			
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg							
Diesel Range Organics (C10-C28)	ND	5.00	n							
GRO and DRO Combined Fractions	ND	5.00	и							
Duplicate (1319019-DUP1)	Source	e: P305023-	01	Prepared &	Ł Analyzed:	09-May-1	3			
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg		ND				30	
Diesel Range Organics (C10-C28)	17.9	5.00	n		47.8			91.1	30	DI
Matrix Spike (1319019-MS1)	Source	e: P305023-	01	Prepared &	¿ Analyzed:	09-May-1	3			
Gasoline Range Organics (C6-C10)	267	5.26	ing/kg	263	ND	101	75-125			
Diesel Range Organics (C10-C28)	309	5.26	h	263	47.8	99.4	75-125			





Farmington NM, 87401

Project Name:

Spill Cleanup / 3B-71 pipeline

614 Reilly Ave

Project Number:

97057-0538

Reported:

Project Manager:

Felipe Aragon

10-May-13 11:36

Notes and Definitions

D1 Duplicates or Matrix Spike Duplicates Relative Percent Difference exceeds 30%.

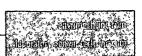
DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



CHAIN OF CUSTODY RECORD

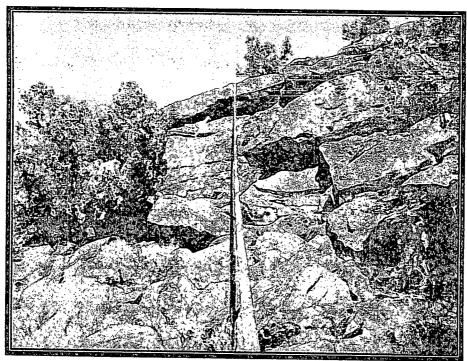
15511

Client: Enforces		F	roject Name / Loca St. // Clean u	tion:	13-71	1 /.	je	ling								Page 6							
Email results to: F A rojo Client Phose No:		- [ampler Name:	_					3015)	1 8021)	8260)	v				-							T
Client Phone No.:		C	lient No.:	_	053	8			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	٠,	TCLP with H/P	CO Table 910-1	18.1)	RIDE			Jool	Sample Jutact	
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./	Volume Intainers	P HNO ₃	reserva	tive (cor)	л) нат	втех	NOC (I	RCHA	Cation	EG.	TCLP	CO Tat	TPH (418.1)	CHLORIDE			Cample	Sample	
Section 2	5-8-13	141.10) P305023-0	1-	402			X	X												3	Y	
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Relinquished by: (Signature)	25					Rece	ived b	y: (Si	grafi	ure)													
Sample Matrix Soil Solid Sludge	Aqueous 🗌	Other []																-				
☐ Sample(s) dropped off after				3 €	P N V	I) (O T	e (itory											-+-		:	
5795 US Highway 6	4 • Farmingto	on, NM 874	01 • 505-632-0615 •	Three Spri	ngs • 65 i	Merca	do Str	eet, Su	uite 1	15, D	urang	o, C	0 813	01 •	labo	ratory	/@en	virote	ch-inc	.com			

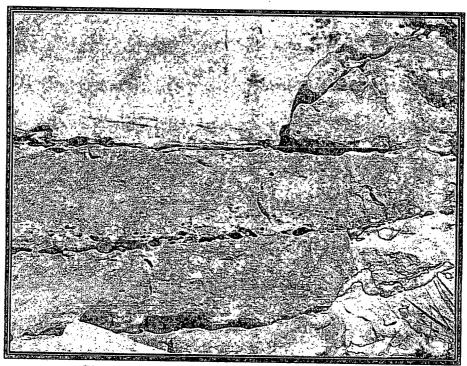
APPENDIX B

Site Photography

SITE PHOTOGRAPHY ENTERPRISE PRODUCTS SPILL CLEANUP REPORT PIPELINE LATERAL 3B-71 PROJECT NUMBER 97057-0538 MARCH 2013

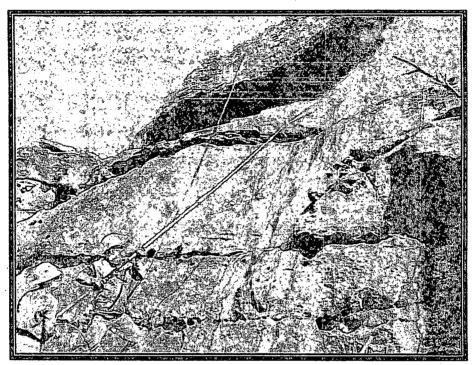


Picture 1: Release Path on Rock Face (View 1)

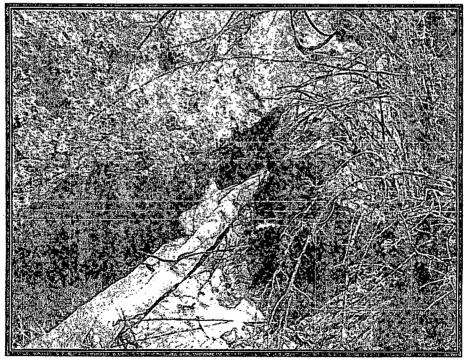


Picture 2: Release Path on Rock Face (View 2)

SITE PHOTOGRAPHY ENTERPRISE PRODUCTS SPILL CLEANUP REPORT PIPELINE LATERAL 3B-71 PROJECT NUMBER 97057-0538 MARCH 2013

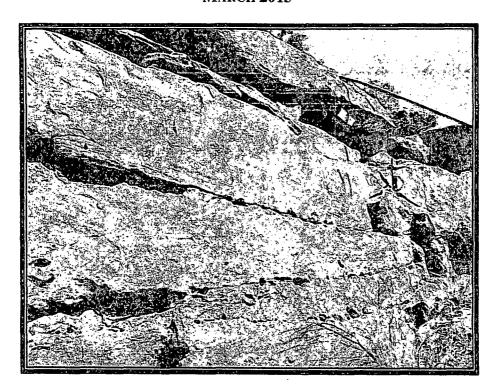


Picture 3: Rock Face Cleanup Activities



Picture 4: Booms at the Base of the Rock Face

SITE PHOTOGRAPHY
ENTERPRISE PRODUCTS
SPILL CLEANUP REPORT
PIPELINE LATERAL 3B-71
PROJECT NUMBER 97057-0538
MARCH 2013



Picture 5: Rock Face after Cleanup Activities (View 1)



Picture 6: Rock Face after Cleanup Activities (View 2)

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

State of New Mexico **Energy Minerals and Natural Resources**

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr.

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

1220 S. St. Fran	cis Dr., Sant	a Fe, NM 8/503		Sa	anta F	e, NM 875	05					
·· · · · · · · · · · · · · · · · · · ·	\$ ·		Rele	ease Notific	catio	n and Co	rrective A	ction	1			
						OPERA'	ГOR			al Report	Пв	Final Report
Name of Co	mpany Er	terprise Fiel	d Service	es		Contact: A				P		The state of the s
·····		Ave., Farmin					No. 505-599-22	86				
			-	ent (Gallegos 2	203		e: Natural gas g		ng line			
gathering lin				(
Surface Ow	ner: BLM			Mineral C	Owner	BLM			API No).		
			LOCA	ΤΙΩΝ ΩΕ Β	ri r	ASE 4	pipe leaks close	. 4 4				
Unit Letter	Section	Township	Range	Feet from the		h/South Line	Feet from the		ner West Line	County		<u> </u>
Onn Letter	13	28N	12W	reet Hom the	Norti	1/30util Line	reet from the	Eastry	west Line	County		
B	24	28N	12W							San Juan		
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Source of Re	lease: Pipel	line				Date and I	Your of Occurrence	e:		Hour of Dis		
						Unknown				s discovered		ated
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Was Immedi	ate Notice (Given?				If YES, To	Whom?		0.21.201.	2 03.00 11	- Caro	
			Yes [] No 🛛 Not R	equired	1						
By Whom?	Aaron Dai	ley				Date and I				CVD ALIG		
Was a Water	course Rea		1 5	7		If YES, V	olume Impacting	the Wate	ercourse.	OIL COM		i
			Yes 🗵							DIST	. 3	(- = -
If a Watercou	ırse was In	pacted, Descr	ribe Fully.	*								
					pipe lea	ks were discov	ered in this segm	ent of w	ell tie pipe	line during	a routine	pipeline
patrol. Line	was isolate	d and LOTO a	applied du	ring discovery.	<u> </u>			1 4 - 15	··	-1:1		40
							tractor conducted as 85 yards of cor					
							ill have to be rem					
				inated at this time								
I hereby cert	ify that the	information g	iven above	e is true and com	plete to		knowledge and u					
							nd perform corre					
							narked as "Final R					
should their	operations.	nave failed to	adequater	y investigate and	remeal	does not relies	ion that pose a the ve the operator of	reat to g	round wate	er, surface w	ater, num	ian neann other
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Signature:	_/	4	-						() =	+H()	1211	
Printed Nam	e: Matt M	larra				Approved by	Environmental S	specialis	i: Jowa	WIL	NUL	
Title: Sr. Di						Approval Da	ute: 9/11/201	3	Expiration	Date:		
E-mail Addr	ess: mem	arra@eprod.co	om			Conditions of	of Approval:			Attacha	. [7	

* Attach Additional Sheets If Necessary

nJK1325450693



Attached

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

Revised August 8, 2011
Submit 1 Copy to appropriate District Office in

Form C-141

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

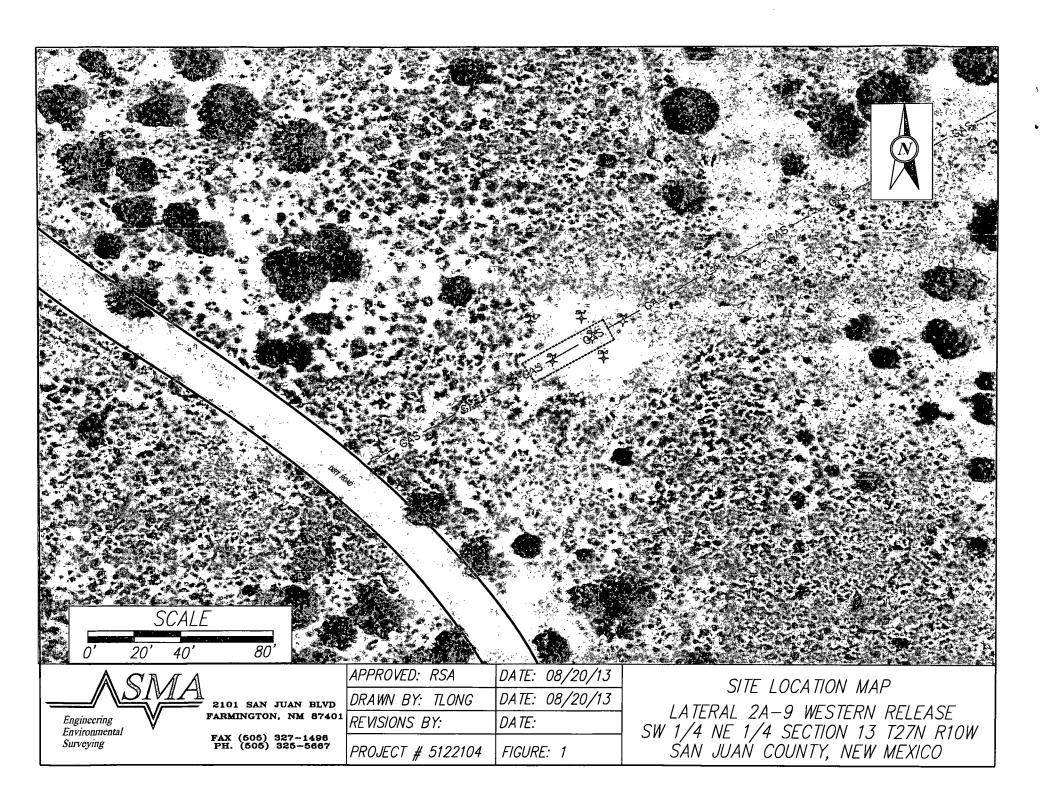
			Kele	ease Notifi			orrective .	Actio	n	
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Name of Co						Contact Aa				
		venue, Farm					No. (505)599-		·	·
Facility Nar	ne Latera	ı 2A-9 Natur	al Gas G	athering Line		Facility Typ	e Natural Ga	s Gathe	ring line	
Surface Ow	ner BLM			Mineral (Owner	BLM	27.72		API No).
		_							1 1 2 2 1 1 0	
		T	· -			N OF REI		_		_
Unit Letter G	Section 13	Township 27N	Range 10W	Feet from the	North	n/South Line	Feet from the	East	West Line	County San Juan
			L	atitude_N 36.5	57857_	_ Longitude	_W-107.8463	1		L
				NAT	TURE	OF REL	EASE			
Type of Rele	ase Natura	l gas Condens	ate and W		CKI		Release Unkno	ıwn	Volume F	Recovered TBD
		ral Gas Pipelii					Iour of Occurre			Hour of Discovery
		·				Unknowr	1		8/14/2013 identified 8/20/2013 contracto	3 @ 11:00 hours gas release
Was Immedi	ate Notice (Yes [No 🛭 Not R	Required	If YES, To	Whom?			
By Whom?	-					Date and F	lour		F	RCVD AUG 26 13
Was a Water	course Read		Yes ⊠] No		If YES, Vo	olume Impactin	g the Wa	tercourse.	OIL CONS. DIV. DIST. 3
If a Watercon	urse was Im	pacted, Descr	ibe Fully.	k						em squae o t Tur
Pipeline leak scheduled at	location di this time.	-	ontractor	working for Ente	rprise o	n line patrol.	Line was isola	ed imme	ediately after	discovery. Repairs are being
Third party 150 yards of actions and	environme of contaminates report have	ated soil will le been comple	r was disp have to be eted.	atched to delinea removed and hau	uled to a	n OCD permit	ted landfarm.	A "final"	'c-141 will t	stimated that approximately once submitted once corrective
regulations a public health should their or the enviro	Ill operators or the envi operations language. In a	are required to are required to have failed to	to report and acceptant ac	nd/or file certain ce of a C-141 rep investigate and	release ort by t remedia	notifications a he NMOCD mate contaminat	nd perform corn parked as "Final ion that pose a to be the operator of	rective ac Report" hreat to of respon	ctions for rel does not rel ground wate ssibility for c	suant to NMOCD rules and eases which may endanger ieve the operator of liability r, surface water, human health compliance with any other
Signature:		1 -					OIL CO	NSER	<u>vation</u> ^	DIVISION
Printed Nam	e: Matt Ma	arra				Approved by	Environmental	Special	ist: DW	Att Delly
Title: Sr. Di	rector, Env	ironmental				Approval Da	te: 9/11/201	3	Expiration	Date:
		rra@eprod.co				Conditions o	f Approval:			Attached
Date: 5	itional She	20/3 Phoeets If Neces:	one: (713)3 sary	381-6684			nJK	113	2545	1527 1371

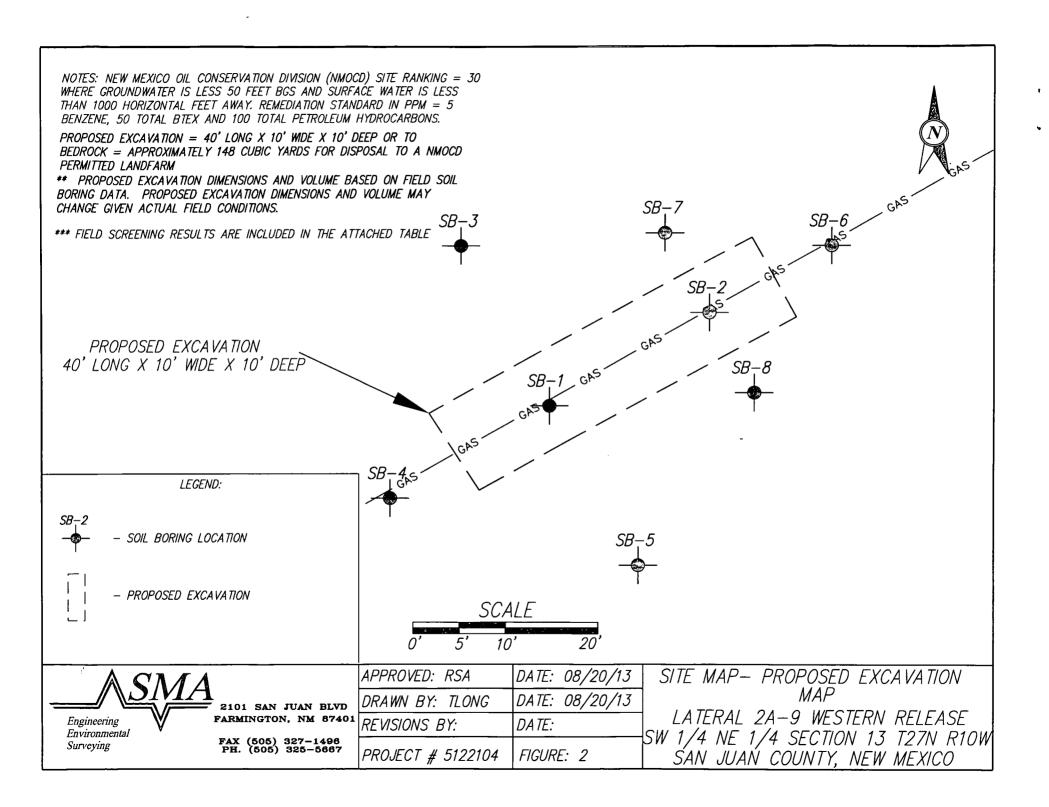
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Enterprise Products Table 1: Summary of Field Screeing Results (PPM)

FIELD SCREENING RESULTS SUMMARY						
Date	Time	Field Screening Reference	Sample Depth (Feet BGS)	PID Results	Comments	
8/19/2013	13:30	SB-1	1	311.0	Heavy Staining	
8/19/2013	13:31	SB-1	2	214.0	Heavy Staining	
8/19/2013	13:32	SB-1	3	105.0	Heavy Staining	
8/19/2013	13:33	SB-1	4	97.0	Heavy Staining	
8/19/2013	13:34	SB-1	5	212.0	Heavy Staining	
8/19/2013	13:45	SB-2	1	213.0	Heavy Staining	
8/19/2013	13:46	SB-2	2	253.0	Heavy Staining	
8/19/2013	13:47	SB-2	3	169.0	Heavy Staining	
8/19/2013	13:48	SB-2	4	383.0	Heavy Staining	
8/19/2013	13:49	SB-2	5	543.0	Heavy Staining	
8/19/2013	15:08	SB-2	6	963.0	Heavy Staining	
8/19/2013	15:09	SB-2	7	1175.0	Heavy Staining	
8/19/2013	15:10	SB-2	8	584.0	Heavy Staining	
8/19/2013	15:11	SB-2	9	907.0	Heavy Staining	
8/19/2013	15:12	SB-2	10	353.0	Heavy Staining	
8/19/2013	13:56	SB-3	1	75.2		
8/19/2013	13:57	SB-3	2	31.0		
8/19/2013	13:58	SB-3	3	44.0		
8/19/2013	13:59	SB-3	4	34.0		
8/19/2013	14:00	SB-3	5	25.0		
8/19/2013	14:07	SB-4	1	76.0		
8/19/2013	14:08	SB-4	2	27.0		
8/19/2013	14:09	SB-4	3	33.0		
8/19/2013	14:10	SB-4	4	17.4		
8/19/2013	14:11	SB-4	5	14.8		
8/19/2013	14:26	SB-5	1	23.0		
8/19/2013	1:27	SB-5	2	21.0		
8/19/2013	14:28	SB-5	3	26.0		
8/19/2013	14:29	SB-5	4	27.0		
8/19/2013	14:30	SB-5	5	11.0		
8/19/2013	13:36	SB-6	1	47.0		
8/19/2013	14:37	SB-6	2	29.0		
8/19/2013	14:38	SB-6	3	34.0		
8/19/2013	14:39	SB-6	4	44.0		
8/19/2013	14:40	SB-6	5	36.0		
8/19/2013	14:51	SB-7	1	32.0		
8/19/2013	14:52	SB-7	2	21.0	ļ	
8/19/2013	14:53	SB-7	3	17.0		
8/19/2013	14:54	SB-7	4	16.0	<u> </u>	
8/19/2013	14:55	SB-7	5	13.0		
8/19/2013	14:56	SB-8	1 1	10.0		
8/19/2013	14:57	SB-8	2	20.0		
8/19/2013	14:58	SB-8	3	24.0		
8/19/2013	14:59	SB-8	4	22.0		
8/19/2013	15:00	SB-8	5	14.0	<u> </u>	







1625 N. French Dr., Hobbs, NM 88240 811 S. First St., Artesia, NM 88210

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

1000 Rio Brazo District IV 1220 S. St. Fran				Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505			accordance with 19.15.29 NMAC.			5.29 NMAC.	
·			Rele	ase Notific	cation and Co	orrective A	ction	1			
					OPERATOR		☐ In	nitial Repo	rt	\boxtimes	Final Report
Name of Co	mpany En	terprise Fie	ld Servic	es, LLC	Contact Th	nomas Long					,
Address 614	4 Reilly Av	enue, Farm	ington NI	M 87401	Telephone	No. (505)599-22	286				
Facility Nar	ne Cedar F	Iill Compre	ssor Stat	on	Facility Ty	pe Natural Gas	Compr	essor Stati	on		
Surface Ow	ner Private)		Mineral (Owner Private			API No).		
	٠			LOC	ATION OF RE	LEASE					
Unit Letter	Section.	Township	Range	Feet from the	North/South Line	Feet from the	East/\	West Line	County		

		······································			
Latitude_N 36deg57'00" Long	itude_W 107deg54'26" (DDMMS	SS)			
N 36.95000		Degrees)			
NATURE	OF RELEASE				
Type of Release Fire, subsequent Emergency Shut Down (ESD) and	Volume of Release 3-5 barrels	Volume Recovered 35 yards of glycol			
glycol release	glycol, 67 MCF gas (ESD)	contaminated soil removed			
Source of Release Glycol Dehydrator	Date and Hour of Occurrence	Date and Hour of Discovery			
	4/14/2013 @ 03:00 hours	4/14/2013 @ 03:50 hours			
Was Immediate Notice Given?	If YES, To Whom?				
☐ Yes ☐ No ☐ Not Required		District. Other agencies notified are as			
		B; NMED HAZMAT Coordinator Ruth			
	Horowitz; San Juan County LEPC Commission	Paula Thomassen; NM Public Regulation			
By Whom? Aaron Dailey	Date and Hour 4/14/2013 @ 08:30 hours (Notification to NM OCD, other				
	notifications followed after this tin	ne)			
Was a Watercourse Reached?	If YES, Volume Impacting the Wa	tercourse.			
☐ Yes ⊠ No	,				
If a Watercourse was Impacted, Describe Fully.*					
Describe Cause of Problem and Remedial Action Taken.* Enterprise employee was compressor unit #3 was off line. Enterprise employee arrived at front gate of location shorting out on the facility dehydrator. Enterprise employee secured road leading to tailgate meeting with fire department about hazards and configuration of compress departments. Fire was extinguished at 5am MST.	ion and noticed gas dehydrator was on fire, o station, called 911 and supervision. Fire or station and dehydrator. Supervision call	ESD of compressor station occurred due to wires department arrived. Enterprise employee had ed Enterprise safety and environmental			
Describe Area Affected and Cleanup Action Taken.* Dehydrator and all appurtena					
the results came back negative. Glycol contaminated soil that fell outside the concrete containment berm was excavated and hauled to an approved disposal facility beginning					
5/22/2013. The dehydrator and all equipment is currently taped off and pending further investigation from fire marshal and other investigative personnel. Area inside concrete containment will be cleaned and dehydrator will be dismantled after the fire investigation is complete. Third party environmental contractor completed remediation					
activities on 5/23/13. Approximately 33 cubic yards of contaminated soil and gravel was excavated and transported to Bondad Landfill in Bondad, Colorado. Third party					
corrective action report is attached to 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

rederal, state, or local laws and/or regularity is	
Signature: ly L pleuflit	OIL CONSERVATION DIVISION
Printed Name: Terry L. Hurlburt	Approved by Environmental Specialist:
Title: Group Sr. Vice President	Approval Date: 4/2/14 Expiration Date:
E-mail Address: snolan@eprod.com	Conditions of Approval: Attached
Date: 12-5-2013 Phone: 713-381-6595	

* Attach Additional Sheets If Necessary

HNCS 1424729700





November 13, 2013

Project Number 97057-0562

Ms. Runell Seale Enterprise 614 Reilly Avenue Farmington, New Mexico 87401

Phone: (505) 599-2124

RE: SPILL CLEANUP REPORT FROM A FIRE AT THE CEDAR HILL COMPRESSOR STATION, 221 ROAD 2300, SAN JUAN COUNTY, NEW MEXICO

Dear Ms. Seale:

Enclosed please find the *Spill Cleanup Report* detailing spill cleanup activities conducted at the Cedar Hill Compressor Station at 221 Road 2300 in San Juan County, New Mexico.

We appreciate the opportunity to be of service. If you have any 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

Enclosures: Spill Cleanup Report

Cc: Client File Number 97057

ENTERPRISE SPILL CLEANUP REPORT CEDAR HILL COMPRESSOR STATION 221 ROAD 2300 SAN JUAN COUNTY, NEW MEXICO

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ACTIVITIES F	PERFORMED	1
Summary an	D Conclusions	2
STATEMENT (OF LIMITATIONS	
Figures:	Figure 1, Vicinity Map Figure 2, Site Map	
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Appendices:	Appendix A, Analytical Results Appendix B, Site Photography Appendix C, Bills of Lading	

Enterprise Spill Cleanup Report Cedar Hill Compressor Station Project Number 97057-0562 May 2013 Page 1

INTRODUCTION

Envirotech, Inc. of Farmington, New Mexico, was contracted by Enterprise Products to provide spill cleanup activities for a release of glycol resulting from a fire at the Cedar Hill Compressor Station located at 221 Road 2300 in San Juan County, New Mexico; see *Figure 1, Vicinity Map*. The glycol contained in the unit was released and ran approximately 35 feet down a hillside to the north of the release source and branched out into two (2) smaller areas that lead to a wash; see enclosed *Figure 2, Site Map* and *Appendix B, Site Photography*. Activities included excavation, sample collection and analysis, contaminated soil disposal, documentation and reporting.

ACTIVITIES PERFORMED

Envirotech, Inc. was contacted on May 22, 2013, with a request to respond to a release of glycol that resulted from a fire that occurred at the Cedar Hill Compressor Station. Visual staining was observed along the north side of the release area; see enclosed *Figure 2*, *Site Map*. Visual staining was also observed on the gravel driveway, next to the blow-down relief stack to the southeast of the release area. Envirotech transported one (1) truck load of clean gravel to the Cedar Hill Compressor Station and staged it on site for backfill material at a later time.

The two (2) areas north of the fence (the smaller, western excavation and the larger, eastern excavation) were the first areas to be excavated. Both areas were excavated to the depth of approximately one (1) foot; see enclosed *Figure 2*, *Site Map*. All visual staining was removed through the use of hand shovels because the area was inaccessible for a backhoe. One (1) five (5)-point composite sample was collected from each of the two (2) impacted areas north of the fence; see enclosed *Figure 2*, *Site Map* for locations. Both samples were analyzed in the field for organic vapor using a photoionization detector (PID). The smaller, western excavation returned a result of 2.4 parts per million (ppm) organic vapor and the larger, eastern excavation returned a result of 0.6 ppm organic vapor; see enclosed *Table 1*, *Summary of Analytical Results*.

A backhoe was then utilized to remove the glycol visually impacted soil between the release area and the fence to the north; see enclosed *Figure 2*, *Site Map* for location. The area was excavated to the depth of approximately three (3) feet; see enclosed *Figure 2*, *Site Map*. Envirotech, Inc. transported approximately 33 cubic yards of contaminated soil to the Bondad Landfill for disposal; see enclosed *Appendix C*, *Bills of Lading*.

One (1) five (5)-point composite sample was collected from the stockpile of contaminated soil; see enclosed *Figure 2*, *Site Map*. The sample was analyzed in the field for Total Petroleum Hydrocarbons (TPH) using USEPA Method 418.1 and for organic vapor using a PID. The sample returned a result of 220 ppm TPH and 0.4 ppm organic vapor; see enclosed *Appendix A*, *Analytical Results*. One (1) five (5)-point composite sample was collected from the bottom of the excavation. The sample was analyzed in the field for TPH using USEPA Method 418.1 and

Enterprise Spill Cleanup Report Cedar Hill Compressor Station Project Number 97057-0562 May 2013 Page 2

for organic vapor using a PID. The sample returned a result of 188 ppm TPH and 0.3 ppm organic vapor; see enclosed *Appendix A, Analytical Results*.

Envirotech personnel returned to the Cedar Hill Compressor Station on May 23, 2013, with approximately 33 cubic yards of clean-fill soil, to continue cleanup activities. With the use of hand shovels and a backhoe, the excavated area was backfilled with clean soil and restored to pre-incident conditions; see enclosed *Appendix B*, *Site Photography*. The gravel driveway, next to the blow-down relief stack to the southeast of the release area, at the Cedar Hill Compressor Station was visually contaminated. A backhoe was utilized to remove all of the visually contaminated gravel. The driveway was backfilled with clean gravel and distributed evenly, returning the gravel driveway to pre-incident conditions; see enclosed *Appendix B*, *Site Photography*.

Approximately 33 cubic yards of glycol contaminated soil and gravel were transported to the Bondad landfill, New Mexico; see *Appendix C, Bills of Lading*.

SUMMARY AND CONCLUSIONS

Spill cleanup activities were performed for a release of glycol resulting from a fire at the Cedar Hill Compressor Station, San Juan County, New Mexico. Approximately 33 cubic yards of glycol contaminated soil and gravel were transported to the Bondad landfill. The site was recontoured to pre-incident conditions. Envirotech, Inc. recommends no further action in regards to this incident.

STATEMENT OF LIMITATIONS

Envirotech, Inc. has completed spill cleanup activities for a release of glycol resulting from a fire at the Cedar Hill Compressor Station located at 221 Road 2300 in San Juan County; New Mexico. The work and services provided by Envirotech, Inc. were in accordance with the New Mexico Oil Conservation Division standards. All observations and conclusions provided here are based on the information and current site conditions found at the site of the incident.

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

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

Enterprise Spill Cleanup Report Cedar Hill Compressor Station Project Number 97057-0562 May 2013 Page 3

Respectfully Submitted,

Reviewed by:

ENVIROTECH, INC.

Tiffany McIntosh Staff Scientist

tmcintosh@envirotech-inc.com

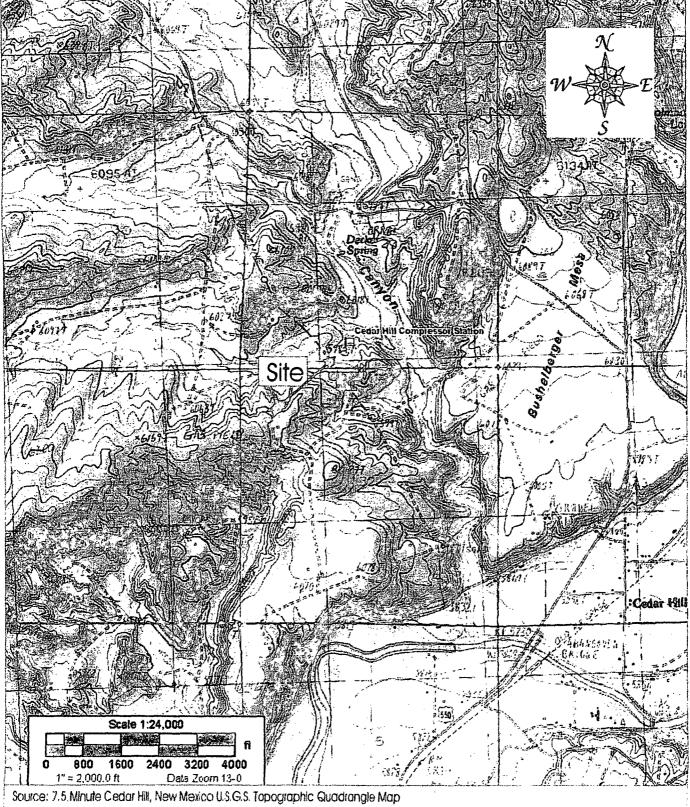
Greg Crabtree, PE Environmental Manager

gcrabtree@envirotech-inc.com

FIGURES

Figure 1, Vicinity Map

Figure 2, Site Map



Scale: 1:24,000 1" = 2000"

Enterprise Products
Cedar Hill Compressor Station
San Juan County, New Mexico

envirotech

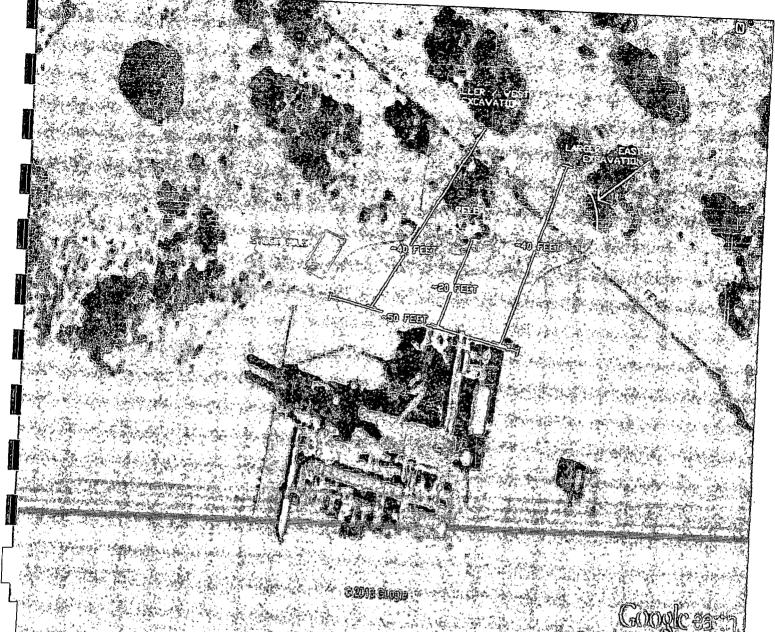
5796 U.S. HIGHWAY 64 Farmington, New Mexico 87401 505.632.0615 Vicinity Map

Figure #1

DRAWN BY: Tiffany McIntosh

PROJECT MANAGER: Greg Crabtree

PROJECT Number:97057-0562 Date Drawn: 5/28/13



LEGEND

- SAMPLE LOCATION
- RELEASE PATH

SITE MAP Enterprise Cedar Hill Compressor Station SAN JUAN COUNTY, NEW MEXICO

SCALE:

PROJECT NO97057-0562

FIGURE NO.

REV 2

REVISIONS

DATE DESCRIPTION MAP DRWN TLM 5/29/13 BASE DRWN TLM 2/25/13



envirotech

5796 U.S. HIGHWAY 64, FARMINGTON, NM 87401 505-632-0615

TABLES

Table 1, Summary of Analytical Results

Table 1, Summary of Analytical Results
Enterprise
Cedar Hill Compressor Station
Spill Cleanup Report
San Juan County, New Mexico
Project Number 97057-0562

Sample Description	Sample Number	Date	TPH 418.1 (ppm)	OVM (ppm)
NMOCD/RCRA Standards	NA	NA.	NA.	NA
Smaller / Western Excavation (5-Point)	1	5/22/2013	NS	2.4
Larger / Eastern Excavation (5-Point)	2	5/22/2013	NS	0.6
Stock Pile Composite (5- Point)	3	5/22/2013	220	0.4
Excavation Composite (5- Point)	4	5/22/2013	188	0.3

NS = Not Sampled

ND = Non-Detect at Stated Method's Detection Limit

^{*} Values in **BOLD** above regulatory standards

APPENDIX A

Analytical Results



EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:

Enterprise

Project #:

97057-0562

Sample No.:

1

Date Reported:

(00/0040

Sample ID:

Stock Pile Composite

Compled

5/28/2013

Sample Matrix:

Soil

Date Sampled: Date Analyzed: 5/22/2013 5/22/2013

Preservative:

Cool

Analysis Needed:

TPH-418.1

Condition:

Cool and Intact

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

Total Petroleum Hydrocarbons

220

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:

Cedar Hill Compressor Station

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

Tiffany McIntosh

Printed

Toni McKnight, EIT

Printed

Review





EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:

Enterprise

Project #:

97057-0562

Sample No.:

2

Date Reported:

5/28/2013

Sample ID:

5-pt Excavation Composite

(00/0010

Sample Matrix:

Soil

Date Sampled:

5/22/2013

Preservative:

Cool

Date Analyzed: Analysis Needed: 5/22/2013 TPH-418.1

Condition:

Cool and Intact

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

Total Petroleum Hydrocarbons

188

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis

of Water and Waste, USEPA Storet No. 4551, 1978.

Comments:

Cedar Hill Compressor Station

x Madritish

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

Tiffany McIntosh

Printed

71071011

Toni McKnight, EIT

Printed



CONTINUOUS CALIBRATION EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

C	al	Da	te:
\sim	41.	-u	

22-May-13

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

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

Liftany Madutosh	5/28/2013
Analyst	Date
Tiffany McIntosh	
Print Name	
Ton Metry	5/28/2013
Review	Date

,796 US Highway 64, Farmington, NM 87401

Print Name

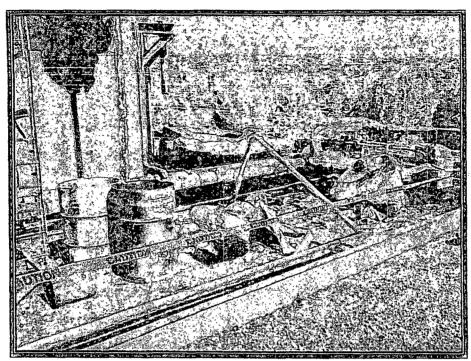
Ph (505) 632-0615 Fx (505) 632-1865

chyretech-inecom monani deglarangalar

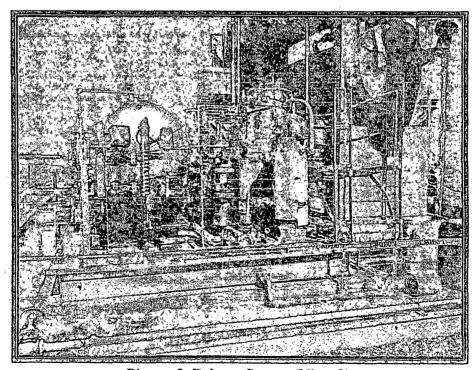
Toni McKnight, EIT

APPENDIX B

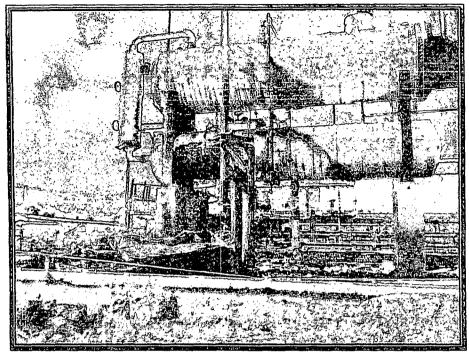
Site Photography



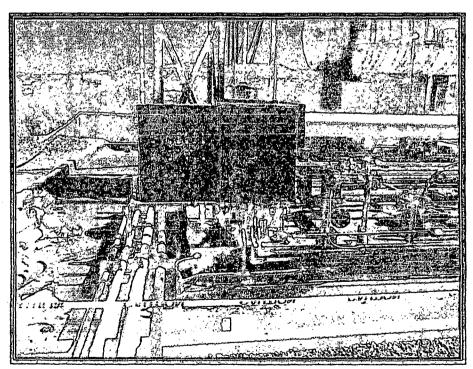
Picture 1: Release Source (View 1)



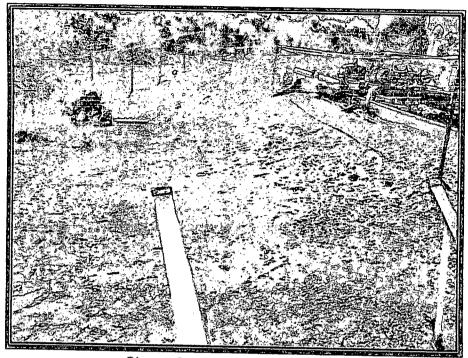
Picture 2: Release Source (View 2)



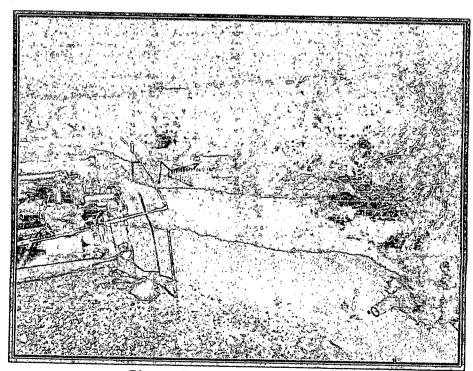
Picture 3: Release Source (View 3)



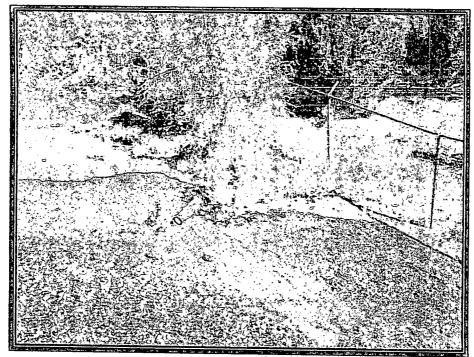
Picture 4: Release Source (View 4)



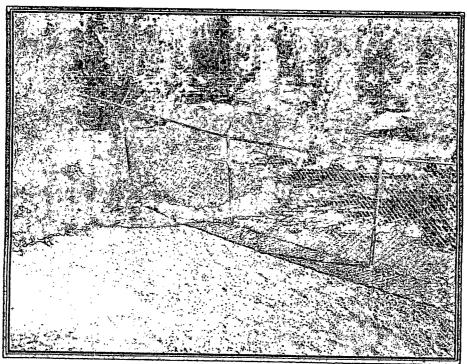
Picture 5: Release Path (View 1)



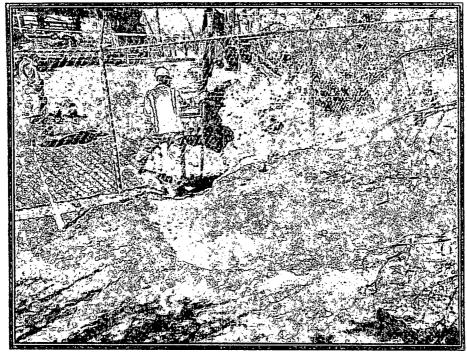
Picture 6: Release Path (View 2)



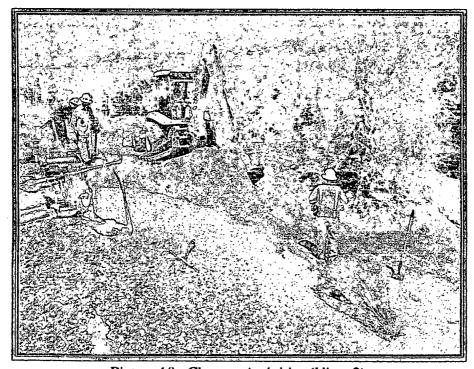
Picture 7: Release Path (View 3)



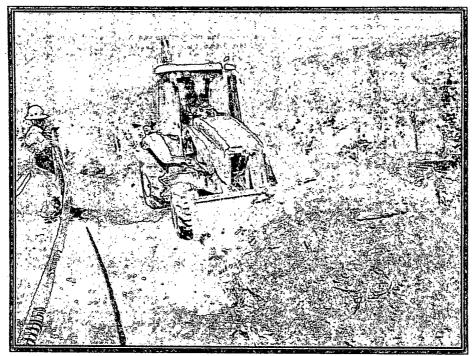
Picture 8: Release Path (View 4)



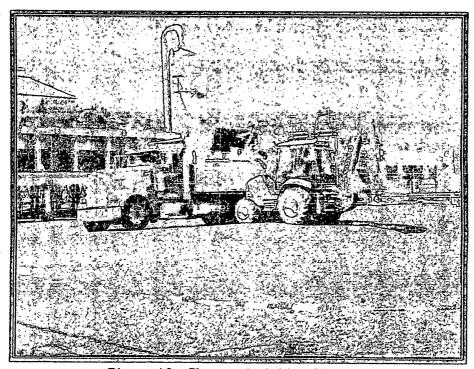
Picture 9: Cleanup Activities (View 1)



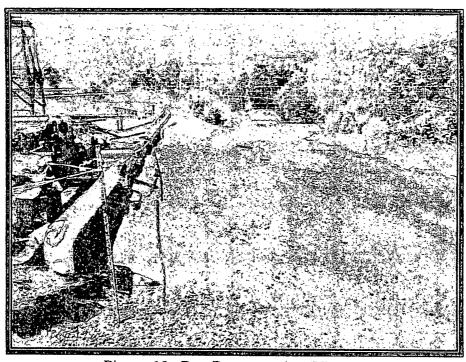
Picture 10: Cleanup Activities (View 2)



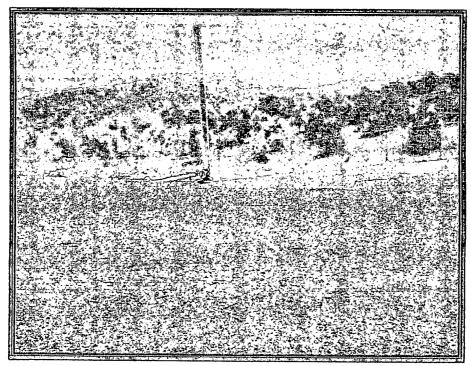
Picture 11: Cleanup Activities (View 3)



Picture 12: Cleanup Activities (View 4)



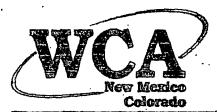
Picture 13:. Post Re-contouring (View 1)



Picture 14: Post Re-contouring (View 2)

APPENDIX C

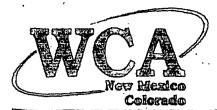
Bills of Lading



NON-HAZARDOUS MANIFEST

	e central	ATOR -			
Generator Enterprise Practices		EPA		,	
Address 614 Reilly Avenue	>	I.D. #			
Farming tow NM 57401		Shipping Location	Ledy is	41/ long	Star St.
		Address Sec 29	TUSP 3210	RILLY 104	Straffer Co
Phone <u>599-2286</u>		Phone <u>579</u>	7-2286		
Description of Waste Materials	Industrial Waste Code #	Profile Number	Total Quantity	Unit of Measure	Container Type
algol impached So. 1		8000 236	1011		Stean 9
J			Z		
	· ·				
	·				
I hereby certify that the above-described materials a law or regulation, have been fully and accurately de according to applicable law and regulations. Area Carrest Authorized Agent Name (Print)		ified and packaged,		her condition for $5-5$	or transportation
Generator Authorized Agent Name (Print)		Colombia and the colombia		neline:	ry Date.
		Signature			
	TRAVISI		1 /		
			nt) Kescu	Peine	
Transporter Name Envirotech	<u> </u>	PORTER STATE	1	r Peine	
Wransporter Name Envirotech Address 5796 U.S. Hwy 64	URANS	Oriver Name (Prir Truck Number	nt) Kescu	reine	
Pranaporter Name Envirotech Address 5796 U.S. Hwy 64 Farmington, New Mexico	87401	Oriver Name (Printruck NumberK Truck TypeK	nt) Kesu 65 enworth dge that the a	Peine W 96 bove-describe	OOL d materials were
Pransporter Name Envirotech Address 5796 U.S. Hwy 64 Farmington New Mexico I hereby acknowledge receipt of the above-describe	8740 d materials for	Oriver Name (Prin Truck Number Truck TypeK	ent) Kesseller (1995) entropy of the all erator shipping	Peine W 96 bove-describe location and	OOL d materials were
Pranaporter Name Envirotech Address 5796 U.S. Hwy 64 Farming for New Mexico I hereby acknowledge receipt of the above-describe transport from the generator shipping location listed	87401 d materials for above.	Driver Name (Print Truck Number Knuck Type Knowle received from genwithout-incident to	ent) Kesseller (1995) entropy of the all erator shipping	Peine W 96 bove-describe location and	d materials were were transported
Pranaporter Name Envirotech Address 5796 U.S. Hwy 64 Farming for New Mexico I hereby acknowledge receipt of the above describe transport from the generator shipping location listed MANGER S-	87401 d materials for above.	Oriver Name (Printruck NumberK I hereby acknowle received from gen	ent) Kesseller (1995) entropy of the all erator shipping	Peine W 96 bove-describe location and	OOL d materials were
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Transporter Name Envirotech Address 5796 U.S. Hwy 64 Farming ten New Mexico I hereby acknowledge receipt of the above describe transport from the generator shipping location listed MARKER Driver Signature Shipping	8740] d materials for above. 22-13 pment Date	Oriver Name (Print Truck Number Truck Number I hereby acknowle received from genwithous incident to Driver Signature	erworth dge that the alerator shipping the destination	W 96 bove-describe location and listed below.	d materials were were transported 5-22-13
Transporter Name Envirotech Address 5796 U.S. Hwy 64 Farming ten New Mexico I hereby acknowledge receipt of the above-describe transport from the generator shipping location listed Driver Signature Shi Mailing Address	8740] d materials for above. 22-13 pment Date	Oriver Name (Print Truck Number Truck Number I hereby acknowle received from genwithout incident to Driver Signature	erworth dge that the alerator shipping the destination	W 96 bove-describe location and listed below.	d materials were were transported 5-22-13
Wransporter Name Envirotech Address 5796 U.S. Hwy 64 Farming for New Mexico I hereby acknowledge receipt of the above describe transport from the generator shipping location listed Malling Address Site Name Bondad Landfill	8740] d materials for above. 22-13 pment Date	Oriver Name (Print Truck Number Truck Number I hereby acknowle received from genwithous incident to Driver Signature TATIONE Physical Address Site Name Bond	erworth dge that the alerator shipping the destination	Peine W 96 bove-describe location and listed below.	d materials were were transported 5-22-13
Transporter Name Envirotech Address 5796 U.S. Hwy 64 Farming ten New Mexico I hereby acknowledge receipt of the above describe transport from the generator shipping location listed Driver Signature Shipping Address Site Name Bondad Landfill	8740] d materials for above. 22-13 pment Date	Driver Name (Print Truck Number Truck Number Knowle received from genwithout incident to Driver Signature Physical Address Site Name Bond Address CR 3	erworth dge that the alerator shipping the destination	Peine W 96 was described to be a second and distern and distern below.	d materials were were transported 5-22-13
Transporter Name Envirotech Address 5796 U.S. Hwy 64 Farming ten New Mexico I hereby acknowledge receipt of the above-describe transport from the generator shipping location listed Malling Address Site Name Bondad Landfill P.O. Box 218	87401 d materials for above. 22-13 pment Date	Oriver Name (Print Truck Number Truck Number I hereby acknowle received from genwithous incident to Driver Signature TATIONE Physical Address Site Name Bond	erworth dge that the alerator shipping the destination and Landvill 18 • Bondad,	Peine W 96 was described to be a second and distern and distern below.	d materials were were transported 5-22-13
Wransporter Name Envirotech Address 5796 U.S. Hwy 64 Farming ten New Mexico I hereby acknowledge receipt of the above describe transport from the generator shipping location listed Malling Address Site Name Bondad Landfill Address P.O. Box 215 Bloomfield, NM 67413	87401 d materials for above. 22-13 pment Date	Driver Name (Print Truck Number Truck Number Knowle received from genwithout incident to Driver Signature Physical Address Site Name Bond Address CR 3	erworth dge that the alerator shipping the destination and Landvill 18 • Bondad,	Peine W 96 was described to be a second and distern and distern below.	d materials were were transported S-22-13 Delivery Date

Goldenrod - Concretor Retain



White - Original

Canary - Diopocor Retain

NON-HAZARDOUS MANIFEST

	EIXE O SALE	anios -	ME EVISED		
Generator Enterprise Product	5	EPA			
Address 614 Reilly Avenue	2	I.D. #			
	401	Shipping Location	on Cashe 1ti	1) Compres	53-53-
				v	10W. San Juan a
Phone <u>565-599-3286</u>		Phone <u>505-</u>			
Description of Waste Materials	Industrial Waste Code #	Profile Number	Total Quantity	Unit of Measure	Container Type
alycol Impacted Soil		B000236	849		
law or regulation, have been fully and accurately according to applicable law and regulations. Archiver Generator Authorized Agent Name (Print)		Signature	р	Deliver	-
	TO TO THE	ORMER STATE			
Transporter Name Environtech		Driver Name (Pri	ne Kocu	Peine	
5796 U.S. Hwy 64		Truck Number	658)	
Address Farmington, New M	exico 8740	Pruch Typo Ke	rworth_	W900	
i hereby acknowledge receipt of the above-describ transport from the generator shipping location lists	d above.	I hereby acknowle received from gen- without incident to	erator shipping the destination	location and w	
Mary funi	5-22-13	Thom Pain	<u> </u>		5-22-13
Driver Signature (7) S	hipment Date	Driver Signature			Delivery Date
AND THE PROPERTY OF THE PARTY O	· CENU	INTOON AND A PARTY.	al Habbar Tich	Turkey in	
Malling Address		Physical Address			
Site Name Bondad Landfill		Site Name Bond	ed Landfill		
Address P.C. Box 215		Address CR 31	le · Bondad,	CO 81301	
Bloomfield, NM 87413		Phone Number	1-970-247-8	295	RCI - 1105794
thereby acknowledge receipt of the above-descri	bed materials.) Kaula	1 L.	1 5	122/13
Name of Authorized Agent (Print)	tangang ang kanang meriliman manan kananan ng manang mananan di didikan sa	Signature			Receipt Date

Pink - Transporter Rotain



Non-Hazardous Manifest

	्रेड (e इराउ:	AVOR			
Generator Enterprise Products	-	EPA			
Address 614 Reilly Avenue	401	I.D. #	- C 21/1	•	- 5
tarminaton NOV 87	401	Shipping Location	n <u>Cedar Hil</u>	Compres	50()+.
<u> </u>	·	Address Sex 27,	TWSP321	V, KNO 10	DW SanJar
Phone 505-599-2286	,	Phone Sc5-	594-22	86	
Description of Waste Materials	Industrial Waste Code #	Profile Number	Total Quantity	Unit of Measure	Container Type
Glycol Ampacted Soi		B000 236	1049		
10#21773			-0		
`	·				
law or regulation, have been fully and accurately de according to applicable law and regulations. Allow Or regulation, have been fully and accurately de according to applicable law and regulations. Generator Authorized Agent Name (Print)		Signature	and and in bigh		y Date
	e sinannac		A Section Control of the Control		<u> </u>
Transporter Name Envirotech	a nearcean	Oriver Name (Pri	17	Poine	
Address 5796 U.S. HWY 64		Truck Number	envorth	W900	
	101				
Farming ten. N. M. 874 I hereby acknowledge receipt of the above-describe		I hereby acknowle received from gen	erator shipping	location and	
transport from the generator shipping location listed	above.	without incluent to	the destination	listed below.	
	22-13	/mi	Lust		5-22-13
Driver Signature () Shi	pment Date	Driver Signature			Delivery Date
	r i desiur	WINGKI ***	Service .	er er file	
Melling Address		Physical Address	ì		
Site Name Bonded Landfill		Site Name _Bond	led Land(III		
Address P.O. Box 216		Address CR 3	16 · Bendad,	CO 81301	
ploomfield, NM 97413		Phone Member _	1-970-247-6	295	
I herapy acknowledge receipt of the above-describe	ed materials.	Mula	The	ib:	5/20/13
Name of Authorized Agent (Print)	and the state of t	Signature			Receipt Date
White - Original Consty - Disposor Retain		Pink - Transporter Retai	n	Coldenie	d - Concretor Rotaln



Non-Hazardous Manifest

	्राच्या स्टब्स्ट्राचा	PATOL		A referen	
Generator Enterprise Prod	uct S	EPA			
Address 6141 Reilly Avenu	e	l.D. #			
Farmington, W.M. 8	7401	Shipping Locatio	nceduc 1	till comp	<u> </u>
J		Address SC	7, Twsf	32N, 1	RNG 10W, S
Phone 505-599-23	584	Phone 505-	599-2	286	
Description of Waste Materials	Industrial Waste Code #	Profile Number	Total Quantity	Unit of Measure	Container Type
alycol impacted so:	1	B000 234	54		
U .					
*					
I hereby certify that the above-described melaw or regulation, have been fully and accuracy according to applicable law and regulations. Generator Authorized Agent Name	urately described, class	ified and packaged,	and are in pro	per condition fo	applicable state or transportation
Generalor Administrative Agent Name		Ognature		Deliver	y vale
		<u> </u>	1/	ere.	10.7
Transporter Name Envirotech		Driver Name (Pri) IEIN	
Address 5796 U.S. Hove	764	Truck Number	nworth	w900L	
Fax mirry fon New Mex hereby acknowledge receipt of the above-	described materials for	I hereby acknowle received from gen	erator shipping	location and v	
ransport from the generator shipping location		without incident to	4 / 1		S 22 13
Driver Signature	5-23-13 Shipment Date	Oriver Signature	- LV		5-23-13 Delivery Date
	DESTIC	ANDORI A A			
Mailing Address		Physical Address			,
Site Name Bonded Landfill		-	ed Landfill		
Address P.O. Box 215		Address CR3	👂 - Bondad,	CO 81301	
Bloomfield, NM 87413		Phone Number	1-970-247-	3295	BT-110579W
hereby acknowledge receipt of the above	described materials.	Mulh			5/22/13
Name of Authorized Agent (Print)	111/ 1/1/10	Signature	7	. /	Receipt Date
Vhite - Original Canary - Dispos	er Retain	Pink - Transporter Retain	1	Goldenroc	i – Generator Ratsin

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

Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

						OPERA	ΓOR		` □ Initia	al Report	\boxtimes	Final Report
Name of Co	mpany En	terprise Fiel	d Service	8		Contact: A						
Address 614 Reilly Ave., Farmington, NM 87401						Telephone No. 505-599-2286					· · · · -	
Facility Nan	ne Latera	16B-10 Con	densate T	ank ank		Facility Typ	e: Natural gas g	gatherin	g line drip	tank		
Surface Ow	ner: BLM			Mineral O	wner	BLM			API No	· · · · · · · · · · · · · · · · · · ·		
Surface OW	HOLL BENT						EACE		711110	<u>'•</u>		
Unit Letter	Section	Township	Range	Feet from the		N OF REI	Feet from the	Fast/V	Vest Line	County		
			_		1101111	Douth Line	r cet from the	Lust	CSt Eme			
G	24	28N	12W							San Juan		
			I	_atitudeN 36	.65077	_ Longitude	_W 108.06145					
				NAT	URE	OF RELI	EASE					
Type of Relea	ase: Natur	al Gas Conder	nsate, Prod	luced Water		Volume of	Release Unknow	vn		Recovered: ated soil rem		
Source of Release: Pipeline Condensate Drip Tank						Date and I- Unknown	our of Occurrenc	e:	On 5/3/20	Hour of Disc 013 @ 14:00 d in bottom o	hours h	ole was
Was Immedia	nte Notice C		Yes [No ⊠ Not Re	quired	If YES, To	Whom?	<u> </u>	uiscovere	u in bottom c	n tank_	
By Whom?	Aaron Dail	ey				Date and F	our		R	CUD AIIG	26 ' 1	£.1
Was a Water	course Read		Yes 🛚	No		If YES, Vo	lume Impacting t	he Wate	ercourse.	OIL COMS DIST.	.DIV	q
If a Watercou	rse was Im	pacted, Descri	ibe Fully.*							14 - 11 - 11		
the base of the the liquid in partice at the	e tank near preparation t time.	the man way to replace the	access. Be gasket. A	n Taken.* During clieving that the ta	nk was ik pulled	leaking around they noticed	d the gasket of the	e man we tank ha	vay, he had ad a hole in	the tank pull it. Tank wa	ed to re s rende	emove all of red out of
	and haul ex			en.* Confirmation was completed								
regulations al public health should their c or the environ	or the environment of the environment. In a	are required to ronment. The lave failed to a	o report ar acceptant adequately OCD accep	is true and comp ad/or file certain re- ee of a C-141 repo investigate and re- tance of a C-141	elease nort by the emediate	otifications a e NMOCD m e contaminati	nd perform correct arked as "Final Roon that pose a thre	ctive acti eport" d eat to gr	ons for release oes not release ound water	eases which r ieve the opera r, surface wat	nay end itor of l er, hun	danger liability nan health
	<u> </u>	10					OIL CON	SERV	<u>ATION</u>	DIVISIO	N	
Signature:	C	_/ // _							Λ	10.	101	
Printed Name	: Matt Ma	nrra				Approved by	Environmental S	pecialist	yona	HI). K	elly	
Title: Sr. Dir	ector, Envi	ronmental				Approval Dat	·8/28/201	31	Expiration	Date:		
		rra@eprod.com				Conditions of	Approval:			Attached		
Date: 8	2 20	2- 2013	Phone:	713-381-6684								

* Attach Additional Sheets If Necessary

NJK1324032776



July 19, 2013

Aaron Dailey Enterprise Field Services, LLC 614 Reilly Avenue Farmington, New Mexico 87401

Via electronic mail to: amdailey@eprod.com

www.animasenvironmental.com

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

> Durango, Colorado 970-403-3084

RE: Initial Release Assessment and Final Excavation Report Lateral 6B-10 Condensate Drip Tank Release

SW¼ NE¼, Section 24, T28N, R12W San Juan County, New Mexico RCVD AUG 26 '13 OIL CONS. DIV. DIST. 3

Dear Mr. Dailey:

On May 8 and June 3, 2013, Animas Environmental Services, LLC (AES) completed an assessment associated with a release of an unknown volume of produced water and natural gas condensate from the Enterprise Field Services, LLC (Enterprise) Lateral 6B-10 condensate drip tank. The release, which is located approximately 3.5 miles southwest of Bloomfield, San Juan County, New Mexico, resulted from a corrosion hole in the bottom of the condensate tank.

1.0 Site Information

1.1 Location

Location - SW¼ NE¼, Section 24, T28N, R12W, San Juan County, New Mexico Latitude/Longitude - N36.65084 and W108.06148, respectively Surface Owner – Bureau of Land Management (BLM)

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map

1.2 NMOCD Ranking

In accordance with NMOCD release protocols, action levels were established per NMOCD *Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993) prior to the initial assessment. The release was given a ranking score of **20** based on the following factors:

 Depth to Groundwater: Based on a cathodic protection report for the Gallegos Canyon Unit #424E well, located approximately 2,700 feet to the southwest of the release location, depth to groundwater is greater than 100 feet below ground surface (bgs). (0 points)

- Wellhead Protection Area: The release location is not within a wellhead protection area. (0 points)
- Distance to Surface Water Body: Two tributary ephemeral washes are located approximately 35 feet to the east and 65 feet to the northwest of the release location and drain to the wash in Horn Canyon. (20 points)

1.3 Assessment and Mitigation

On May 8, 2013, Heather Woods and Jesse Christopherson of AES completed the initial release assessment field work. The assessment included the collection of 26 soil samples from seven borings (SB-1 through SB-7) in the release area. Soil boring SB-1 was terminated at approximately 12 feet bgs, and soil borings SB-2 through SB-7 were terminated at approximately 4 feet bgs. Sample locations are included on Figure 3.

On June 3, 2013, AES returned to the location to collect confirmation soil samples from the excavation. Field screening activities included the collection of seven confirmation soil samples (SC-1 through SC-7) from the walls and base of the excavation. The area of final excavation was approximately 20 feet by 36 feet by 9 to 12 feet in depth. Sample locations and final excavation extents are shown on Figure 4.

2.0 Soil Sampling

A total of 26 soil samples were collected from 7 soil borings (SB-1 through SB-7), and 7 composite samples (SC-1 through SC-7) were collected during the assessments. All soil samples were field screened for volatile organic compounds (VOCs) and selected samples were also analyzed for total petroleum hydrocarbons (TPH). Two samples (SB-1 and SB-3) collected during the initial assessment and two samples (SC-1 and SC-5) from the final excavation were submitted for confirmation laboratory analysis.

2.1 Field Screening

2.1.1 Volatile Organic Compounds

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

2.1.2 Total Petroleum Hydrocarbons

Field TPH samples 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

Soil 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:

 Benzene, toluene, ethylbenzene, and xylene (BTEX) per U.S. Environmental Protection Agency (USEPA) Method 8021B.

Samples SB-1, SB-3, and SC-1 were also laboratory analyzed for:

 Total petroleum hydrocarbons (TPH) for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015D.

2.3 Field Screening and Laboratory Analytical Results

On May 8, 2013, initial assessment field screening results for VOCs via OVM showed concentrations ranging from 1.2 ppm in SB-7 to 4,045 ppm in SB-3. Field TPH concentrations ranged from less than 20 mg/kg in SB-2 to greater than 10,000 mg/kg in SB-1.

On June 3, 2013, final excavation field screening results for VOCs via OVM showed concentrations ranging from 1.3 ppm in SC-7 to 603 ppm in SC-5. Field TPH concentrations ranged from 52.8 mg/kg in SC-3 to 103 mg/kg in SC-1. Results are included below in Table 1 and on Figures 3 and 4. The AES Field Screening Reports are attached.

Table 1. Field Screening VOCs and TPH Results
Lateral 6B-10 Condensate Drip Tank Release Assessment and Final Excavation
May and June 2013

Sample ID Sampled (ft bgs) (ppm) (mg/kg) SB-1 NMOCD Action Level* 100 100 Surface 2,378 >10,00 1 1,520 NA 2 765 NA 4 309 NA 8 358 NA 8 358 195 10 2,640 NA 12 2,009 >2,50 Surface 17.1 NA SB-2 5/8/13 2 120 <20.0 4 13.9 NA		Date	Sample Depth	VOCs via OVM	Field TPH				
SB-1 5/8/13 Surface 2,378 >10,000 1	Sample ID		•	(ppm)	(mg/kg)				
SB-1 5/8/13		NMOCD A	ction Level*	100	100				
SB-1 5/8/13 2 765 NA			Surface	2,378	>10,000				
SB-1 5/8/13 4 309 NA 6 2,498 NA 8 358 195 10 2,640 NA 12 2,009 >2,50 Surface 17.1 NA SB-2 5/8/13 2 120 <20.0			1	1,520	NA				
SB-1 5/8/13 6 2,498 NA 8 358 195 10 2,640 NA 12 2,009 >2,50 Surface 17.1 NA 2 120 <20.0		_	2	765	NA				
6 2,498 NA 8 358 195 10 2,640 NA 12 2,009 >2,50 Surface 17.1 NA SB-2 5/8/13 2 120 <20.0	CR_1	5/9/13	4	309	NA				
10 2,640 NA 12 2,009 >2,50 Surface 17.1 NA SB-2 5/8/13 2 120 <20.0	30-1	3/6/13	6	2,498	NA				
12 2,009 >2,50 SB-2 5/8/13 2 120 <20.0		_	8	358	195				
SB-2 5/8/13 Surface 17.1 NA 2 120 <20.0		_	10	2,640	NA				
SB-2 5/8/13 2 120 <20.0 4 13.9 NA Surface 4,045 >2,50 4 351 161 Surface 15.3 NA SB-4 5/8/13 2 13.1 NA Surface 6.9 NA SB-5 5/8/13 2 7.5 NA Surface 4.3 NA Surface 4.3 NA SB-6 5/8/13 2 3.4 NA Surface 1.2 NA Surface 1.2 NA SB-7 5/8/13 2 2.2 NA			12	2,009	>2,500				
Surface 4,045 >2,50 SB-3 5/8/13 2 3,556 NA SB-4 5/8/13 2 13.1 NA SB-4 5/8/13 2 13.1 NA Surface 6.9 NA SB-5 5/8/13 2 7.5 NA Surface 4.3 NA Surface 1.2 NA <th <="" colspan="4" td=""><td></td><td></td><td>Surface</td><td>17.1</td><td>NA</td></th>	<td></td> <td></td> <td>Surface</td> <td>17.1</td> <td>NA</td>						Surface	17.1	NA
SB-3 5/8/13 Surface 4,045 >2,50 4 351 161 SB-4 5/8/13 2 15.3 NA SB-4 5/8/13 2 13.1 NA 4 12.4 NA SB-5 5/8/13 2 7.5 NA SB-6 5/8/13 2 7.5 NA Surface 4.3 NA Surface 4.3 NA A 4.8 NA Surface 1.2 NA Surface 1.2 NA SB-7 5/8/13 2 2.2 NA	SB-2	5/8/13	2	120	<20.0				
SB-3 5/8/13 2 3,556 NA 4 351 161 SB-4 5/8/13 2 15.3 NA SB-4 5/8/13 2 13.1 NA SB-5 5/8/13 2 7.5 NA A 7.3 NA SB-6 5/8/13 2 3.4 NA SB-6 5/8/13 2 3.4 NA Surface 1.2 NA SB-7 5/8/13 2 2.2 NA			4	13.9	NA				
351 161 SB-4 5/8/13 2 13.1 NA 4 12.4 NA 4 12.4 NA SB-5 5/8/13 2 7.5 NA 4 7.3 NA Surface 4.3 NA SB-6 5/8/13 2 3.4 NA NA 4 4.8 NA Surface 1.2 NA SB-7 5/8/13 2 2.2 NA			Surface	4,045	>2,500				
SB-4 5/8/13 Surface 15.3 NA 4 12.4 NA 4 12.4 NA SB-5 5/8/13 2 7.5 NA 4 7.3 NA Surface 4.3 NA SB-6 5/8/13 2 3.4 NA NA 4 4.8 NA Surface 1.2 NA SB-7 5/8/13 2 2.2 NA	SB-3	5/8/13	2	3,556	NA				
SB-4 5/8/13 2 13.1 NA 4 12.4 NA Surface 6.9 NA SB-5 5/8/13 2 7.5 NA 4 7.3 NA Surface 4.3 NA SB-6 5/8/13 2 3.4 NA NA NA Surface 1.2 NA SB-7 5/8/13 2 2.2 NA			4	351	161				
4 12.4 NA SB-5 5/8/13 2 7.5 NA 4 7.3 NA Surface 4.3 NA SB-6 5/8/13 2 3.4 NA A 4.8 NA Surface 1.2 NA SB-7 5/8/13 2 2.2 NA			Surface	15.3	NA				
SB-5 5/8/13 Surface 6.9 NA 4 7.5 NA 4 7.3 NA Surface 4.3 NA SB-6 5/8/13 2 3.4 NA A 4.8 NA Surface 1.2 NA SB-7 5/8/13 2 2.2 NA	SB-4	5/8/13	2	13.1	NA				
SB-5 5/8/13 2 7.5 NA 4 7.3 NA Surface 4.3 NA SB-6 5/8/13 2 3.4 NA 4 4.8 NA Surface 1.2 NA SB-7 5/8/13 2 2.2 NA			4	12.4	NA				
4 7.3 NA Surface 4.3 NA SB-6 5/8/13 2 3.4 NA 4 4.8 NA Surface 1.2 NA SB-7 5/8/13 2 2.2 NA			Surface	6.9	NA				
Surface 4.3 NA SB-6 5/8/13 2 3.4 NA 4 4.8 NA Surface 1.2 NA SB-7 5/8/13 2 2.2 NA	SB-5	5/8/13	2	7.5	NA				
SB-6 5/8/13 2 3.4 NA 4 4.8 NA Surface 1.2 NA SB-7 5/8/13 2 2.2 NA			4	7.3	NA				
4 4.8 NA Surface 1.2 NA SB-7 5/8/13 2 2.2 NA			Surface	4.3	NA				
SB-7 5/8/13 Surface 1.2 NA 2 2.2 NA	SB-6	5/8/13	2	3.4	NA				
SB-7 5/8/13 2 2.2 NA			4	4.8	NA				
	· ·		Surface	1.2	NA				
4 1.3 NA	SB-7	5/8/13	2	2.2	NA				
		•	4	1.3	NA				

Sample ID	Date Sampled	Sample Depth (ft bgs)	VOCs via OVM (ppm)	Field TPH (mg/kg)
	NMOCD A	ction Level*	100	100
SC-1	6/3/13	9	107	103
SC-2	6/3/13	3 to 9	13.4	84.9
SC-3	6/3/13	3 to 9	65.6	52.8
SC-4	6/3/13	12	8.6	59.0
SC-5	6/3/13	9	603	82.5
SC-6	6/3/13	3 to 12	33.3	72.6
SC-7	6/3/13	3 to 12	1.3	88.6

NA - not analyzed

Laboratory analytical results for SB-1, SB-3, SC-1, and SC-5 were used to confirm field screening results during the initial assessment and excavation activities. In all four samples, benzene and total BTEX concentrations were reported below laboratory detection limits, except for SB-1 with a total BTEX concentration of 12.8 mg/kg. TPH concentrations as GRO/DRO were reported in SB-1 (530 mg/kg), SB-3 (34 mg/kg), and below the laboratory detection limit of 15 mg/kg in SC-1. Results are presented in Table 2 and on Figures 3 and 4. Laboratory analytical reports are attached.

Table 2. Laboratory Analytical Results – Benzene, Total BTEX, and TPH Lateral 6B-10 Condensate Drip Tank Release Assessment and Final Excavation May and June. 2013

		iviay	aliu Julie, z	.013				
Sample Total								
Sample ID	Date Sampled	Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)		
NMO	CD Action Le	vel*	10	50	10	00		
SB-1	5/8/13	12	<0.25	12.8	210	320		
SB-3	5/8/13	4	<0.049	<0.244	5.0	29		
SC-1	6/3/13	9	<0.050	<0.25	<5.0	<10		
SC-5	6/3/13	9	<0.050	<0.25	NA	NA		

NA – not analyzed

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

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

3.0 Conclusions and Recommendations

On May 8, 2013, AES conducted an initial assessment of produced water and condensate contaminated soils associated with a release at the Lateral 6B-10 condensate drip tank location. Action levels for releases are determined by the NMOCD ranking score per *NMOCD Guidelines for Leaks, Spills, and Releases* (August 1993), and the site was assigned a rank of 20. Field screening results above the NMOCD action level of 100 ppm VOCs were reported in SB-1 through SB-3, with the highest VOC concentration reported in SB-3 (4,045 ppm). Field screening results also showed TPH concentrations above the NMOCD action level of 100 mg/kg in SB-1 through SB-3. The highest field TPH concentration was reported in SB-1 with greater than 10,000 mg/kg. Laboratory analytical results from May 8, 2013, reported benzene and total BTEX concentrations in SB-1 and SB-3 below applicable NMOCD action levels. Laboratory analytical results for TPH as GRO/DRO were also reported below the applicable NMOCD action level of 100 mg/kg in SB-1 (530 mg/kg).

On June 3, 2013, final clearance of the excavation area was completed. Field screening results of the excavation extents showed that VOC concentrations were below the NMOCD action level for the final four walls and base of the excavation, except for SC-1 (south base) with 107 ppm and SC-5 (west half of north base) with 603 ppm. Field TPH concentrations below the NMOCD action level of 100 mg/kg were also reported for the final four walls and base of the excavation, except for in SC-1 (south base) with 103 mg/kg. Laboratory analytical results from June 3, 2013, reported benzene and total BTEX concentrations in SC-1 and SC-5 below NMOCD action levels. Laboratory analytical results for TPH as GRO/DRO were also reported below the applicable NMOCD action level of 100 mg/kg in SC-1.

Based on the excavation of contaminated soils, field screening, and laboratory analytical results for VOCs, TPH, benzene, and total BTEX, no further work is recommended. If you have any questions about this report or site conditions, please do not hesitate to contact me or Ross Kennemer at (505) 564-2281.

Sincerely,

Heather M. Woods Staff Geologist

Heather M. Woods

Elizabeth McNally, P.E.

Attachments:

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map

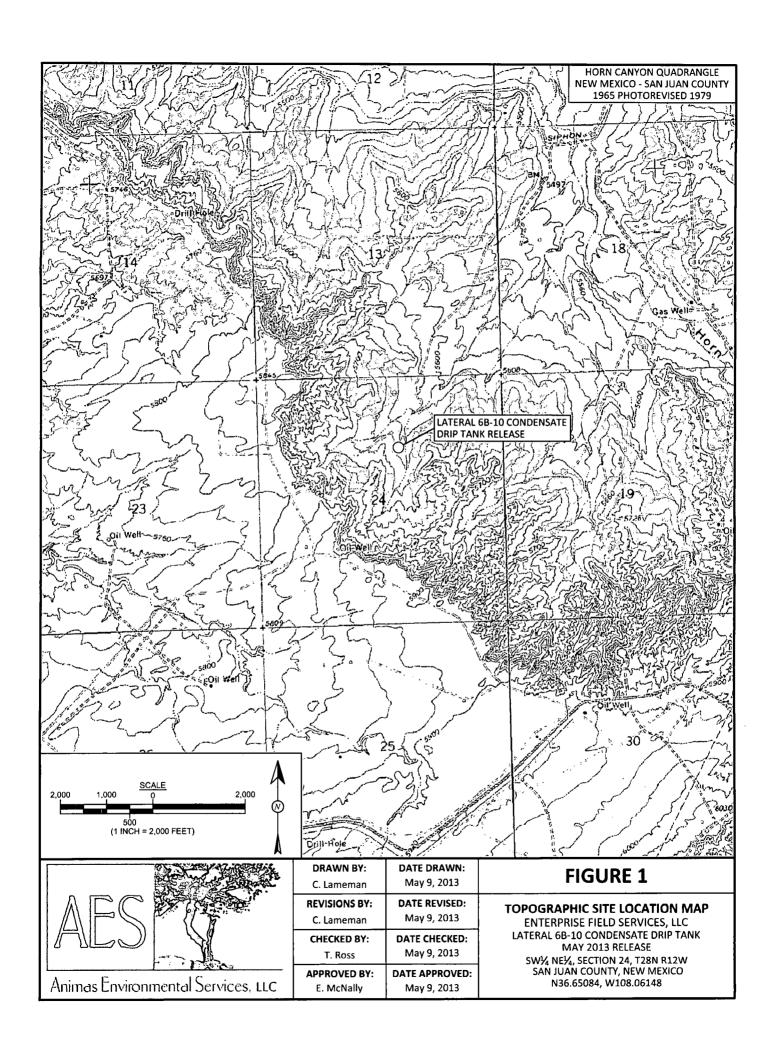
Figure 3. Release Assessment Sample Locations and Results, May 2013

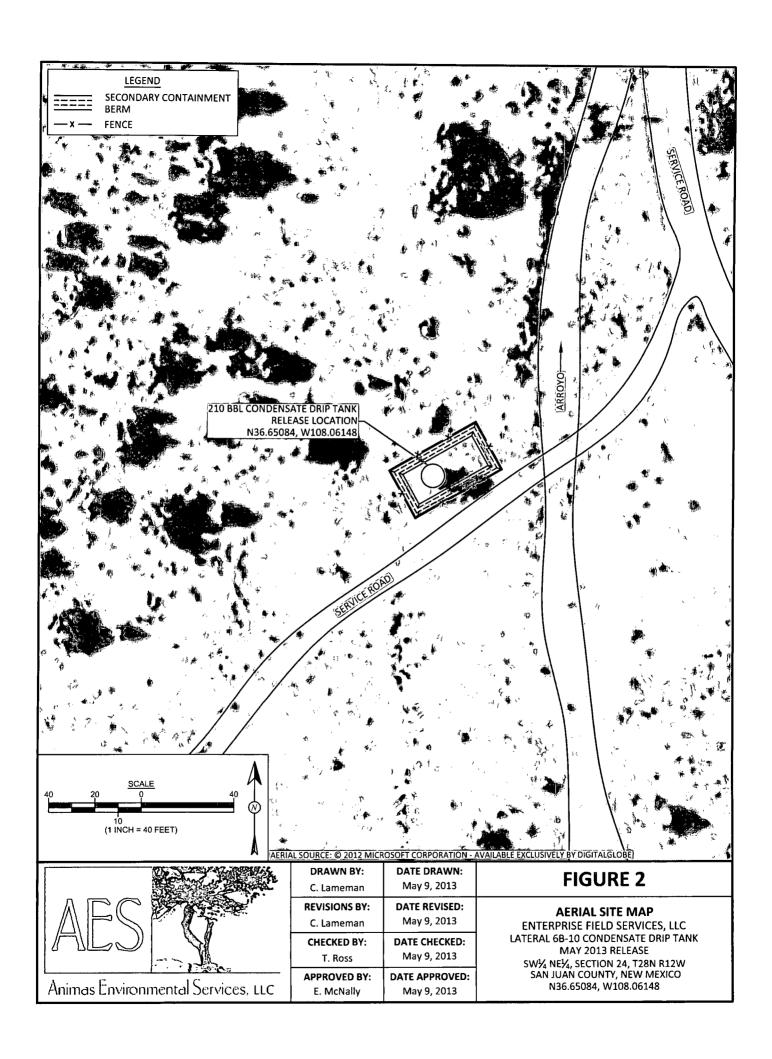
Figure 4. Final Excavation Sample Locations and Results, June 2013

AES Field Screening Reports 050813 and 060313

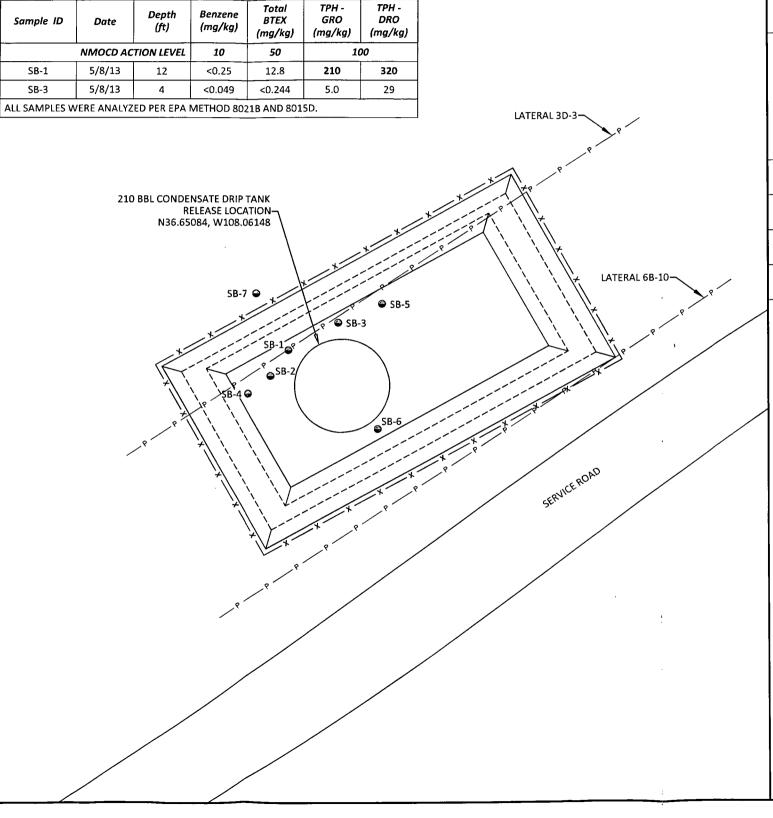
Laboratory Analytical Reports 1305366 and 1306076

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Sample ID	Date	Depth (ft)	OVM- PID (ppm)	TPH (mg/kg)
	NMOCD A	CTION LEVEL	100	100
***		Surface	2,378	>10,000
		1	1,520	NA
		2	765	NA
SB-1	5/8/13	4	309	NA
2B-1	5/6/13	6	2,498	NA
		8	358	195
		10	2,640	NA
		12	2,009	>2,500
-	5/8/13	Surface	17.1	NA
SB-2		2	120	<20.0
		4	13.9	NA
	5/8/13	Surface	4,045	>2,500
SB-3		2	3,556	NA
		4	351	161
		Surface	15.3	NA
SB-4	5/8/13	2	13.1	NA
		4	12.4	NA
		Surface	6.9	NA
SB-5	5/8/13	2	7.5	NA
		4	7.3	NA
		Surface	4.3	NA
SB-6	5/8/13	2	3.4	NA
		4	4.8	NA.
		Surface	1.2	NA
SB-7	5/8/13	2	2.2	NA
		4	1.3	NA



Laboratory Analytical Results

FIGURE 3

INITIAL ASSESSMENT SAMPLE LOCATIONS AND RESULTS MAY 2013

ENTERPRISE FIELD SERVICES, LLC LATERAL 6B-10 CONDENSATE DRIP TANK MAY 2013 RELEASE

SW¼ NE¼, SECTION 24, T28N R12W SAN JUAN COUNTY, NEW MEXICO N36.65084, W108.06148



Animas Environmental Services, LLC

APPROVED BY:	DATE APPROVED:
T. Ross	May 9, 2013
CHECKED BY:	DATE CHECKED:
C. Lameman	May 9, 2013
REVISIONS BY:	DATE REVISED:
C. Lameman	May 9, 2013
DRAWN BY:	DATE DRAWN:

APPROVED BY: E. McNally

SAMPLE LOCATIONS

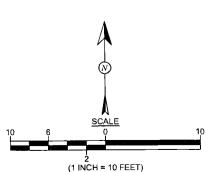
==== SECONDARY CONTAINMENT BERM

LEGEND

May 9, 2013

— x — FENC

— P — BURIED PIPELINE (APPROXIMATE)



Field Screening Results										
Sample ID	Date	Date Depth PID (ppm)								
	NMOCD AC	TION LEVEL	100	100						
SC-1	6/3/13	9	107	103						
SC-2	6/3/13	3 to 9	13.4	84.9						
SC-3	6/3/13	3 to 9	65.6	52.8						
SC-4	6/3/13	12	8.6	59.0						
SC-5	6/3/13	9	603	82.5						
SC-6	6/3/13	3 to 12	33.3	72.6						
SC-7	6/3/13	3 to 12	1.3	88.6						

				. / *
210	D BBL CONDENSATE DRIP TANK RELEASE LOCATION N36.65084, W108.06148			The second secon
FINAL EXCAVATION 20 FT X 36 FT X 9 TO 12 FT DEEP	SC-6-6	SC-4	SC-7	
	e	© SC-1		
PH - RO g/kg)			2 2	
VA	P	R	SERVICE ROAD	

LATERAL 3D-3

		Laboratory	Analytical I	Results		
Sample ID	Date	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)
	NMOCD AC	TION LEVEL	10	50	10	00
SC-1	6/3/13	9	<0.050	<0.25	<5.0	<10
SC-5	6/3/13	9	<0.050	<0.25	NA	NA
ALL CANADIES	VEDE ANIALY/2	ED DED COAL	AFTUOD OO	110 110 004		

ALL SAMPLES WERE ANALYZED PER EPA METHOD 8021B AND 8015D. NA - NOT ANALYZED

Field Screening Results										
Sample ID	Date	Date Depth PID (ppm)								
	NMOCD AC	TION LEVEL	100	100						
SC-1	6/3/13	9	107	103						
SC-2	6/3/13	3 to 9	13.4	84.9						
SC-3	6/3/13	3 to 9	65.6	52.8						
SC-4	6/3/13	12	8.6	59.0						
SC-5	6/3/13	9	603	82.5						
SC-6	6/3/13	3 to 12	33.3	72.6						
SC-7	6/3/13	3 to 12	1.3	88.6						

Laboratory Analytical Results

Benzene

(mg/kg)

10

<0.050

< 0.050

BTEX

(mg/kg)

50

<0.25

<0.25

Depth

(ft)

9

ALL SAMPLES WERE ANALYZED PER EPA METHOD 8021B AND 8015D.

Date

6/3/13

6/3/13

NMOCD ACTION LEVEL

Sample ID

SC-1

SC-5

NA - NOT ANALYZED

TPH -

GRO

<5.0

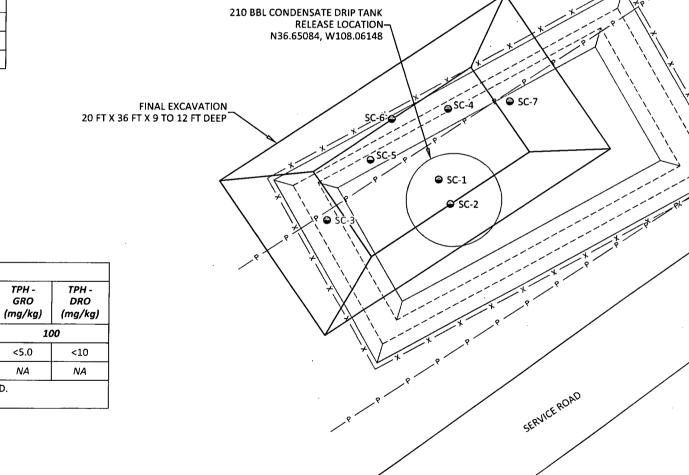


FIGURE 4

FINAL EXCAVATION SAMPLE LOCATIONS AND RESULTS **MAY 2013**

ENTERPRISE FIELD SERVICES, LLC LATERAL 6B-10 CONDENSATE DRIP TANK MAY 2013 RELEASE SW½ NE¾, SECTION 24, T28N R12W SAN JUAN COUNTY, NEW MEXICO N36.65084, W108.06148



LATERAL 3D-3

LATERAL 6B-10-



Animas Environmental Services, LLC

· ·	
DRAWN BY:	DATE DRAWN:
C. Lameman	May 9, 2013
REVISIONS BY:	DATE REVISED:
C. Lameman	May 9, 2013
CHECKED BY:	DATE CHECKED:
T. Ross	May 9, 2013
APPROVED BY:	DATE APPROVED:
E. McNally	May 9, 2013

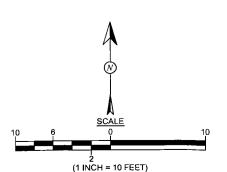
LEGEND

SAMPLE LOCATIONS

==== SECONDARY CONTAINMENT BERM

— x — FENCE

— P — BURIED PIPELINE (APPROXIMATE)



AES Field Screening Report

Client: Enterprise Field Services

Project Location: Lateral 6B-10 Condensate Drip Tank Release

Date: 5/8/2013

Matrix: Soil



www.animasenvironmental.com

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

> Durango, Colorado 970-403-3084

			Y				τ	,
Sample ID	Collection Date	Time of Sample Collection	OVM (ppm)	Field TPH Analysis Time	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SB-1 @ Surface	5/8/2013	14:12	2,378	18:51	>10,000	100	1	HMW
SB-1 @ 1'	5/8/2013	14:14	1,520		Not .	Analyzed for Ti	PH.	
SB-1 @ 2'	5/8/2013	14:16	765		Not .	Analyzed for Ti	РН.	
SB-1 @ 4'	5/8/2013	14:19	309		Not .	Analyzed for Ti	РН.	
SB-1 @ 6'	5/8/2013	14:45	2,498		Not i	Analyzed for Ti	———— РН.	
SB-1 @ 8'	5/8/2013	14:51	358	18:59	195	20.0	1	HMW
SB-1 @ 10'	5/8/2013	15:15	2,640		Not i	Analyzed for Ti	PH.	•
SB-1 @ 12'	5/8/2013	15:35	2,009	19:00	>2,500	20.0	1	HMW
SB-2 @ Surface	5/8/2013	14:22	17.1		Not i	Analyzed for TI	PH.	
SB-2 @ 2'	5/8/2013	14:25	120	18:49	<20.0	20.0	1	HMW
SB-2 @ 41	5/8/2013	14:29	13.9		Not .	Analyzed for TI	РН.	
SB-3 @ Surface	5/8/2013	14:31	4,045	18:54	>2,500	20.0	1	HMW
SB-3 @ 2'	5/8/2013	14:33	3,556	Not Analyzed for TPH.				
SB-3 @ 4'	5/8/2013	14:36	351	18:56	161	20.0	1	HMW

Sample ID	Collection Date	Time of Sample Collection	OVM (ppm)	Field TPH Analysis Time	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials	
SB-4 @ Surface	5/8/2013	15:02	15.3		Not.	Analyzed for T	PH.		
SB-4 @ 2'	5/8/2013	15:04	13.1		Not.	Analyzed for T	PH.		
SB-4 @ 4'	5/8/2013	15:07	12.4		Not	Analyzed for T	PH.		
SB-5 @ Surface	5/8/2013	15:19	6.9		Not	Analyzed for T	PH.		
SB-5 @ 2'	5/8/2013	15:22	7.5		Not	Analyzed for T	PH.		
SB-5 @ 4'	5/8/2013	15:26	7.3		Not	Analyzed for T	PH.		
SB-6 @ Surface	5/8/2013	15:39	4.3		Not .	Analyzed for T	PH.		
SB-6 @ 2'	5/8/2013	15:41	3.4		Not	Analyzed for T	PH.		
SB-6 @ 4'	5/8/2013	15:44	4.8		Not	Analyzed for T	PH.		
SB-7 @ Surface	5/8/2013	15:50	1.2	Not Analyzed for TPH.					
SB-7 @ 2'	5/8/2013	15:53	2.2	Not Analyzed for TPH.					
SB-7 @ 4'	5/8/2013	15:57	1.3		Not	Analyzed for T	PH.		

PQL

Practical Quantitation Limit

ND

Not Detected at the Reporting Limit

: Aleather M. Woods

NA Not Analyzed
DF Dilution Factor

^{*}Field TPH concentrations recorded may be below PQL.

AES Field Screening Report

Animas Environmental Services, LLC

www.animasenvironmental.com

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

> Durango, Colorado 970-403-3084

Client: Enterprise Field Services

Project Location: Lateral 6B-10 Condensate Drip Tank Release

Date: 6/3/2013

Matrix: Soil

Sample ID	Collection Date	Time of Sample Collection	Sample Depth (ft)	OVM (ppm)	Field TPH Analysis Time	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-1	6/3/2013	14:18	9	107	17:24	103	20.0	1	HMW
SC-2	6/3/2013	14:20	3 to 9	13.4	12:27	84.9	20.0	1	HMW
SC-3	6/3/2013	14:22	3 to 9	65.6	17:29	52.8	20.0	1	HMW
SC-4	6/3/2013	15:20	12	8.6	17:31	59.0	20.0	1	HMW
SC-5	6/3/2013	15:22	9	603	17:33	82.5	20.0	1	HMW
SC-6	6/3/2013	15:24	3 to 12	33.3	17:35	72.6	20.0	1	HMW
SC-7	6/3/2013	15:26	3 to 12	1.3	17:37	88.6	20.0	1	HMW

PQL

Practical Quantitation Limit

ND

Not Detected at the Reporting Limit

Analyst: Heather M Woods

NA DF

Not Analyzed **Dilution Factor**

*Field TPH concentrations recorded may be below PQL.



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

OrderNo.: 1305366

May 16, 2013

Ross Kennemer Animas Environmental Services 624 East Comanche

Farmington, NM 87401 TEL: (505) 486-1776 FAX (505) 324-2022

RE: Enterprise Tank 6B-10

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory received 2 sample(s) on 5/9/2013 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. 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. 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

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1305366

Date Reported: 5/16/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SB-3@4'

Enterprise Tank 6B-10 Project:

Collection Date: 5/8/2013 2:36:00 PM

1305366-001 Lab ID:

Received Date: 5/9/2013 10:00:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS					Analys	: JME
Diesel Range Organics (DRO)	29	10		mg/Kg	1	5/13/2013 8:01:16 PM	7387
Surr: DNOP	122	63-147		%REC	1	5/13/2013 8:01:16 PM	7387
EPA METHOD 8015D: GASOLINE R.	ANGE					Analys	: NSB
Gasoline Range Organics (GRO)	5.0	4.9		mg/Kg	1	5/11/2013 9:15:41 AM	7366
Surr: BFB	140	80-120	S	%REC	1	5/11/2013 9:15:41 AM	7366
EPA METHOD 8021B: VOLATILES						Analys	: NSB
Benzene	ND	0.049		mg/Kg	1	5/11/2013 9:15:41 AM	7366
Toluene	ND	0.049		mg/Kg	1	5/11/2013 9:15:41 AM	7366
Ethylbenzene	ND	0.049		mg/Kg	1	5/11/2013 9:15:41 AM	7366
Xylenes, Total	ND	0.097		mg/Kg	1	5/11/2013 9:15:41 AM	7366
Surr: 4-Bromofluorobenzene	99.6	80-120		%REC	1	5/11/2013 9:15:41 AM	7366

Matrix: SOIL

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range E
- Analyte detected below quantitation limits
- Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit

Page 1 of 5

- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits

Analytical Report Lab Order 1305366

Date Reported: 5/16/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Enterprise Tank 6B-10

Lab ID: 1305366-002

Client Sample ID: SB-1@12'

Collection Date: 5/8/2013 3:35:00 PM Received Date: 5/9/2013 10:00:00 AM

Analyses	Result	RL (Qual Units	ÐF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGI	E ORGANICS				Analy	st: JME
Diesel Range Organics (DRO)	320	10	mg/Kg	1	5/13/2013 8:28:53 PM	A 7387
Surr: DNOP	121	63-147	%REC	1	5/13/2013 8:28:53 PM	A 7387
EPA METHOD 8015D: GASOLINE RA	NGE				Analy	st: NSB
Gasoline Range Organics (GRO)	210	25	mg/Kg	5	5/11/2013 9:45:41 AN	7366
Surr: BFB	336	80-120	S %REC	5	5/11/2013 9:45:41 AM	n 7366
EPA METHOD 8021B: VOLATILES					Analy	st: NSB
Benzene	ND	0.25	mg/Kg	5	5/11/2013 9:45:41 AN	7366
Toluene	2.2	0.25	mg/Kg	5	5/11/2013 9:45:41 AN	7366
Ethylbenzene	1.0	0.25	mg/Kg	5	5/11/2013 9:45:41 AN	7366
Xylenes, Total	9.6	0.49	mg/Kg	5	5/11/2013 9:45:41 AN	7366
Surr: 4-Bromofluorobenzene	115	80-120	%REC	5	5/11/2013 9:45:41 AN	7366

Matrix: SOIL

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
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 2 of 5

- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1305366

16-May-13

Client:

Animas Environmental Services

PQL

10

Result

49

5.5

Project:

Analyte

Sum: DNOP

Diesel Range Organics (DRO)

Enterprise Tank 6B-10

Sample ID MB-7387	SampType: MBLK			TestCode: EPA Method 8015D: Diesel Range Organics						
Client ID: PBS	Batch ID: 7387 Analysis Date: 5/10/2013		RunNo: 10540 SeqNo: 298020							
Prep Date: 5/10/2013						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	11		10.00		108	63	147			
Sample ID LCS-7387	SampType: LCS		TestCode: EPA Method 8015D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 7387			RunNo: 10540						
Prep Date: 5/10/2013	Analysis Date: 5/10/2013			SeqNo: 298022			Units: mg/K	(q		

0

%REC

97.1

111

LowLimit

47.4

63

HighLimit

122

147

%RPD

RPDLimit

Qual

SPK value SPK Ref Val

50.00

5.000

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Page 3 of 5

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1305366

16-May-13

Client:

Animas Environmental Services

Project:

Enterprise Tank 6B-10

Sample ID MB-7366	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range				
Client ID: PBS	Batch ID: 7366	RunNo: 10548				
Prep Date: 5/9/2013	Analysis Date: 5/10/2013	SeqNo: 298421	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	890 1000	89.2 80	120			
Sample ID LCS-7366	SampType: LCS TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 7366	RunNo: 10548				
Prep Date: 5/9/2013	Analysis Date: 5/10/2013	SeqNo: 298422	Units: mg/Kg			
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual			
Gasoline Range Organics (GRO)	23 5.0 25.00	0 91.0 62.6	136			
Surr: BFB	960 1000	96.2 80	120			
Sample ID MB-7389	SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 7389	RunNo: 10583				
Prep Date: 5/10/2013	Analysis Date: 5/14/2013	SeqNo: 299261	Units: %REC			
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual			
Surr: BFB	930 1000	92.9 80	120			
Sample ID LCS-7389	SampType: LCS TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 7389	RunNo: 10583				
Prep Date: 5/10/2013	Analysis Date: 5/13/2013	SeqNo: 299262	Units: %REC			
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual			
Surr: BFB	990 1000	98.7 80	120			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH greater than 2 for VOA and TOC only.
- Reporting Detection Limit

- Analyte detected in the associated Method Blank В
- Н Holding times for preparation or analysis exceeded

Spike Recovery outside accepted recovery limits

- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits

Page 4 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: 130

1305366

16-May-13

Client:

Animas Environmental Services

Project:

Enterprise Tank 6B-10

Sample ID MB-7366	Samp	Туре: МЕ	BLK	Tes	tCode: E	tiles					
Client ID: PBS	Batc	h ID: 73	66	F	RunNo: 1	0548					
Prep Date: 5/9/2013	Analysis [Date: 5/	10/2013		SeqNo: 2	98461	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	0.97		1.000		97.2	80	120				
Sample ID 1 CS-7366	Samn	Type: LC		Tee	tCode: E	PA Mothod	8021B: Vola	tilos			

Sample ID LCS-7366	Samp1	s	Tes							
Client ID: LCSS						0548				
Prep Date: 5/9/2013	Description Description				SeqNo: 2	(g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	100	80	120	•		
Toluene	0.99	0.050	1.000	0	99.5	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.1	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120			

Sample ID MB-7389	SampT	ype: Mi	BLK	Tes	tCode: E	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	1D: 73	89	F	RunNo: 1	0583				
Prep Date: 5/10/2013	Prep Date: 5/10/2013 Analysis Date: 5/14/2013				SeqNo: 2	99280	Units: %RE	С		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1 000	·	104	80	120			-

Sample ID LCS-7389	SampType	e: LCS	Test	tCode: EF	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batch ID	D: 7389	R	tunNo: 10	0583				
Prep Date: 5/10/2013					99281	Units: %RE	С		
Analyte	Result F	PQL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr. 4-Bromofluorobenzene	1 1	1 000		105	80	120			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2 for VOA and TOC only.

RL Reporting Detection Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

Page 5 of 5



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: Animas Environmental Work Order Number: 1305366 RcptNo: 1 Received by/date: Logged By: 5/9/2013 10:00:00 AM Lindsay/Mangin Lindsay Mangin 5/9/2013 11:24:29 AM Completed By: 05/09/00/3 Reviewed By: Chain of Custody Yes | No i i Not Present 🗸 1 Custody seals intact on sample bottles? No : Not Present Yes 🗸 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In 4. Was an attempt made to cool the samples? Yes V No | NA . NA I 5. Were all samples received at a temperature of >0° C to 6.0°C Yes 🗸 No ! 6. Sample(s) in proper container(s)? Yes 🗸 No 🔛 7. Sufficient sample volume for indicated test(s)? No [8. Are samples (except VOA and ONG) properly preserved? Yes 🗸 No 🔀 NA I. 9. Was preservative added to bottles? Yes !! 10.VOA vials have zero headspace? Yes | No No VOA Vials V Yes | | No I✓i 11. Were any sample containers received broken? # of preserved bottles checked No | for pH: 12. Does paperwork match bottle labels? Yes 🗸 (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? 13. Are matrices correctly identified on Chain of Custody? No 14. Is it clear what analyses were requested? No Checked by: 15. Were all holding times able to be met? Yes 🗸 No (If no, notify customer for authorization.) Special Handling (if applicable) Yes | | No L 16. Was client notified of all discrepancles with this order? Person Notified: Date: By Whom: eMail Phone Fax In Person Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No Temp °C Condition | Seal Intact | Seal No Yes

	Chain	-of-Cu	stody Record	Turn-Around	Time:									,			•				- 4 1	
Client:			nmental Services	☑ Standard				L		H											'AL OR'	
				Project Name	e:]					v.hal									_
Mailing	Address	: 624 E	Comanche	Enterprise	Tank WE	5-10			49	01 H								м 87	'109			
			67401	Project #:					Te	el. 50	5-34	5-39			_	_	_	410	_			
		<u>- 564-</u>								· .			_ A	naly	sis	Req	ues				<u> </u>	
	r Fax#:			Project Mana	ger:			_	(كِ	8					3							
QA/QC	Package:		□ Level 4 (Full Validation)	R. Kenn	4 144 4 m			Table (8021)	Gas or	健/0	}		SIMS)		O4,S(PCB's						
Accred		 	<u> </u>) H	DR			0.8		02.1	382						
□ NEL		□ Othe	r	Sampler: #	Woods Wester	™No		Ť	t TF	/ QX	18.1	4.	8270		N.E.	/ 8(₽				Z
	(Type)			Samplevier	perajure as z	· 4	A STATE OF THE STA	4	3E	9	۵ 4,	Q 2	ö	tals	<u> </u>	des	\ \rac{1}{2}) N				12
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type		No.	BTEX + Material	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / 新國)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or	RCRA 8 Metals	Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)				Air Bubbles (Y or N)
5/8/13	1436	Soil	58-3@4'	1-402		7-2	Ω	X		X												
<u>5/8/13</u>	1535	Soil	58-1@12'	1-402		-0	02_	x		Х		\bot					_			\bot		\bot
								<u> </u>							_					\dashv	_	4-
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Date: /8/13	Time: 2002	Relinquishe	ed by: then M. Woodo	Received by:	1	19 te 15 109/1	Time	Rer	narks	s:	-o E	nte	rprl	ic	Fiè	ld ·	Ser	VIC	ده			
Date:	Time:	Relinquishe		Received by:		Date	Time													,		
H	necessary,	samples subn	nitted to Hall Environmental may be subc	ontracted to other ac	credited laboratorie	s. This serves	as notice of this	possi	bility.	Any su	b-cont	racted	data	vIII be	clearly	y nota	ted on	the ar	nalytica	ıl repor	t.	



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

OrderNo.: 1306076

June 06, 2013

Ross Kennemer
Animas Environmental Services
624 East Comanche
Farmington, NM 87401

TEL: (505) 486-1776 FAX (505) 324-2022

RE: Enterprise Tank 6B-10

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory received 2 sample(s) on 6/4/2013 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 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.

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1306076

Date Reported: 6/6/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-1

Project: Enterprise Tank 6B-10

Collection Date: 6/3/2013 2:18:00 PM

Lab ID: 1306076-001

Matrix: MEOH (SOIL) Received Date: 6/4/2013 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analys	t: GSA
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/4/2013 12:44:23 PM	7743
Surr: DNOP	105	63-147	%REC	1	6/4/2013 12:44:23 PM	7743
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/4/2013 12:38:15 PM	R11057
Surr: BFB	99.8	80-120	%REC	1	6/4/2013 12:38:15 PM	R11057
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.050	mg/Kg	1	6/4/2013 12:38:15 PM	R11057
Toluene	ND	0.050	mg/Kg	1	6/4/2013 12:38:15 PM	R11057
Ethylbenzene	ND	0.050	mg/Kg	1	6/4/2013 12:38:15 PM	R11057
Xylenes, Total	ND	0.10	mg/Kg	1	6/4/2013 12:38:15 PM	R11057
Surr: 4-Bromofluorobenzene	98.5	80-120	%REC	1	6/4/2013 12:38:15 PM	R11057

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
- Page 1 of 5
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Analytical Report

Lab Order 1306076

Date Reported: 6/6/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-5

Enterprise Tank 6B-10 Project:

Collection Date: 6/3/2013 3:22:00 PM

1306076-002 Lab ID:

Matrix: MEOH (SOIL) Received Date: 6/4/2013 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.050	mg/Kg	1	6/4/2013 1:06:54 PM	R11057
Toluene	ND	0.050	mg/Kg	1	6/4/2013 1:06:54 PM	R11057
Ethylbenzene	ND	0.050	mg/Kg	1	6/4/2013 1:06:54 PM	R11057
Xylenes, Total	ND	0.10	mg/Kg	1	6/4/2013 1:06:54 PM	R11057
Surr: 4-Bromofluorobenzene	100	80-120	%REC	1	6/4/2013 1:06:54 PM	R11057

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit 0
- RPD outside accepted recovery limits

- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit ND

- Not Detected at the Reporting Limit $$\operatorname{Page}$\ 2 of 5 $$$ Sample pH greater than 2 for VOA and TOC only. P
- Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1306076

06-Jun-13

Client:

Animas Environmental Services

Project:

Enterprise Tank 6B-10

Sample ID MB-7743	SampT	ype: ME	BLK	TestCode: EPA Method 8015D: Diesel Range Organics								
Client ID: PBS	Batch	ID: 77	43	R	RunNo: 1	1054						
Prep Date: 6/4/2013	Analysis D	ate: 6/	4/2013	S	SeqNo: 3	12839	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	ND	10										
Surr: DNOP	9.9		10.00		99.1	63	147					

Sample ID LCS-7743 SampType: LCS TestCode: EPA Method 8015D: Diesel Range Organics Client ID: LCSS Batch ID: 7743 RunNo: 11054 Prep Date: 6/4/2013 Analysis Date: 6/4/2013 SeqNo: 312840 Units: mg/Kg **RPDLimit** Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD Qual Diesel Range Organics (DRO) 49 10 50.00 0 98.9 77.1 128 Surr: DNOP 5.0 5.000 99.3 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

Page 3 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1306076

06-Jun-13

Client:

Animas Environmental Services

Project: Enterpr	rise Tank 6B-10		
Sample ID MB-7716	SampType: MBLK	TestCode: EPA Method 8015): Gasoline Range
Client ID: PBS	Batch ID: R11057	RunNo: 11057	
Prep Date: 6/3/2013	Analysis Date: 6/4/2013	SeqNo: 313364 Units	: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit High	ıLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO)	ND 5.0		
Surr: BFB	940 1000	94.3 80	120
Sample ID LCS-7716	SampType: LCS	TestCode: EPA Method 8015E): Gasoline Range
Client ID: LCSS	Batch ID: R11057	RunNo: 11057	
Prep Date: 6/3/2013	Analysis Date: 6/4/2013	SeqNo: 313365 Units	: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit High	Limit %RPD RPDLimit Qual
Gasoline Range Organics (GRO)	27 5.0 25.00	0 107 62.6	136
Sum: BFB	1000 1000	104 80	120
Sample ID MB-7716	SampType: MBLK	TestCode: EPA Method 8015E): Gasoline Range
Client ID: PBS	Batch ID: 7716	RunNo: 11057	
Prep Date: 6/3/2013	Analysis Date: 6/4/2013	SeqNo: 313385 Units	: %REC
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit High	Limit %RPD RPDLimit Qual
Surr: BFB	940 1000	94.3 80	120
Sample ID LCS-7716	SampType: LCS	TestCode: EPA Method 8015E): Gasoline Range
Client ID: LCSS	Batch ID: 7716	RunNo: 11057	
Prep Date: 6/3/2013	Analysis Date: 6/4/2013	SeqNo: 313386 Units	: %REC
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit High	Limit %RPD RPDLimit Qual
Surr: BFB	1000 1000	104 80	120

Qualifiers:

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

Analyte detected below quantitation limits

RSD is greater than RSDlimit O

R RPD outside accepted recovery limits Analyte detected in the associated Method Blank

Η 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.

Reporting Detection Limit

Page 4 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1306076

06-Jun-13

Client:

Animas Environmental Services

Project:

Enterprise Tank 6B-10

Sample ID MB-7716	SampT	ype: ME	BLK	Tes	iles					
Client ID: PBS	Batch	ID: R1	1057	F	RunNo: 1	1057				
Prep Date: 6/3/2013	Analysis D	ate: 6/	4/2013	S	SeqNo: 3	13400	Units: mg/K	(g		
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		99.9	80	120			

Sample ID LCS-7716	Samp	Гуре: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batc	h ID: R1	1057	F	RunNo: 1	1057				
Prep Date: 6/3/2013	Analysis [Date: 6/	4/2013	\$	SeqNo: 3	13401	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	104	80	120			
Toluene	1.0	0.050	1.000	0	104	80	120			
Ethylbenzene	1.0	0.050	1.000	0	104	80	120			
Xylenes, Total	3.1	0.10	3.000	0	104	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120			

Sample ID MB-7716	SampT	ype: MI	BLK	Tes	tCode: E	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batch	1D: 77	16	F	RunNo: 1	1057				
Prep Date: 6/3/2013	Analysis D	ate: 6	/4/2013	\$	SeqNo: 3	13419	Units: %RE	С		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		99.9	80	120			

Sample ID LCS-7716	SampType: LCS	TestCode: EPA Method	8021B: Volatiles		
Client ID: LCSS	Batch ID: 7716	RunNo: 11057			
Prep Date: 6/3/2013	Analysis Date: 6/4/2013	SeqNo: 313420	Units: %REC		
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPI	RPDLimit	Qual
A 15 A 1	4.4				

Surr: 4-Bromofluorobenzene 1.1 1.000 107 80 120

Qualifiers:

- Value exceeds Maximum Contaminant Level.
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- 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

Page 5 of 5



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:	Animas Environmental	Work Order Number:	13060	76		RcptNo	1
Received by/date	e: 4G	D6/14/13					
Logged By:	Michelle Garcia	6/4/2013 10:00:00 AM		•	Mirul a	anue)	
Completed By:	Michelle Garcia	6/4/2013 10:33:17 AM			Minus G Minus G	naue)	
Reviewed By:	Z _O	06/04/13			• 1		
Chain of Cus	tody	09097					
1. Custody sea	ls intact on sample bottles?		Yes		No 🗆	Not Present	
2. Is Chain of C	custody complete?		Yes	\checkmark	No 🗆	Not Present	
3. How was the	sample delivered?		Couri	<u>er</u>			
<u>Log In</u>							
4. Was an atte	mpt made to cool the sample	es?	Yes	✓	No 🗆	na 🗆	
5. Were all sam	nples received at a temperat	ure of >0° C to 6.0°C	Yes	V	No 🗌	na 🗆	
6. Sample(s) in	proper container(s)?		Yes	✓	No 🗌		
7. Sufficient sar	mple volume for indicated te	st(s)?	Yes	✓	No 🗆		
8. Are samples	(except VOA and ONG) pro	perly preserved?	Yes	$\overline{\mathbf{V}}$	No 🗀		
9. Was preserv	ative added to bottles?		Yes		No 🗹	NA 🗆	
10.VOA vials ha	ve zero headspace?		Yes		No 🗆	No VOA Vials 🗹	
11. Were any sa	imple containers received br	oken?	Yes		No 🗹	# of preserved	
12 0	d. accide boille labate0		V		No 🗆	bottles checked for pH:	
	ork match bottle labels? pancies on chain of custody)		Yes	V	NO L		or >12 unless noted)
	correctly identified on Chain	of Custody?	Yes	✓	No 🗆	Adjusted?	
14, Is it clear wha	at analyses were requested?		Yes	V	No 🗀		
	ling times able to be met? customer for authorization.)		Yes	\checkmark	No 📙	Checked by:	
Special Hand	ling (if applicable)						
	otified of all discrepancies wi	th this order?	Yes		No 🗆	na 🗹	
	Notified:	Date:					
By Who	A CANADA	Via:	 ີ eMa	il 🗆 Pho	one Fax	In Person	
Regard		A COMPANY OF THE PROPERTY OF T				1	
	nstructions:					Commence of the Commence of th	
17. Additional re	emarks:						
18. Cooler Info	Temp °C Condition	Seal Intact Seal No S	Seal Da	te S	igned By		

Chain-of-Custody Record		Turn-Around Time:											. ,	ma		4				
Client:	łnima	s Envir	ronmontal Services	Same day Standard Vi Rush 0404/18 Project Name: Per Heather Woods						HALL ENVIRONMENTAL ANALYSIS LABORATORY										
	_			Project Name) ;	Per	Heather	٦			٧	ww	.hall	enviro	nme	ental.c	om			
Mailing	Address	: 624 i	E. Comanche	Enterprie	e Tank 6	B-10	wa		490	01 Ha	awkir	ns NI	Ę -	Albu	quero	que, N	IM 87	'109		
Farmington, NM 87401			m 87401	Project #:				Tel. 505-345-3975 Fax 505-345-4107 Analysis Request												
Phone #: email or Fax#:			Project Mana					<u>\</u>				_								
				j Project Wana 	ger.			21)	e F	Ä.				6	֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	2				
QA/QC Package: ☐ Level 4 (Full Validation)			R. Kenne	mir			±-TMB's (8021)	MTBE + TPH (Gas only)	80/			SIMS	2	֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	Pesticides / 6062 PCB s 8 (VOA)					
Accredi				Sampler: H	. Woods			∰	풀	0	=	=	2			8				2
□ NEL		□ Othe	r	Onice	VAYES:	(DENO)		4	+	8	418	504	r 82	S	عُ ا	S	(AC			Į Ž
□ EDD	(Type)		T	Sample Tem	perature: 🌾			MTBE	186	\ %	bo	ğ	6	etal	<u> </u>	ë <u>₹</u>	, -i-			\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Date	Time	Matrix	Sample Request ID		Preservative Type	1	ALTO III	BTEX + M	BTEX + M	TPH 8015B(GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	(T) SHOILING	8081 Pesticia 8260B (VOA)	8270 (Semi-VOA)			Air Rubble
<u></u>	1418	501/	5C-1	Me OH 12 is/			001	X	-	4										
	1 \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	Soil	5c-5	MeOH Kit 1-402	MeOH		002	X		•	ter		احذ	92		عام	,			
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Date:	Time:	Relinquish	ed by:	Received by:		Date (_ /	e Time	Ren	nark	s:										
13/13 Date:	737 Time:	Hear Relinquish	th. M. Woodo	Received by:	z Walte	2 (3)	13 /733 Time	-												
13/13	1754	Chris	- Wast -		> nul	04/1	3 1000	>												
	necessary,	amples subr	mitted to Hall Environmental may be subd	contracted to other a	credited laboratorie	es. This ser	ves as notice of this	possi	bility.	Any su	b-conti	racted	data v	vill be c	early r	notated	on the a	nalytical r	eport.	

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505 Submit I Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Santa Fe, Nivi 87505													
Release Notification and Corrective Action													
	OPERATOR Initial Report Final Report												
Name of Co	mpany En	terprise Fiel	Contact: A	aron Dailey									
		ve., Farmin		No. 505-599-22	286								
		l 10D-2 Gath					e: Natural gas g		line				
Surface Ow	ner: Nav	b'w		Mineral C	Owner				API No				
		1/11/2013		1		LOEDE	EAGE						
Unit Letter	Section	Township	Range	Feet from the		N OF REI	Feet from the	ot Lina	County				
Omi Letter	Section	Township	Kange	reet from the	NOTH	South Line	reet from the	Last we	/West Line County				
	_17	26N	11W		<u> </u>			1		San Juan			
		L	atitude_	N 36.48801 _ L	ongitue	de_W 108.0	2705 (Decimal	Degrees)	_				
				NAT	TURE	OF RELI	EASE						
Type of Rele	ase: Natur	al Gas Pipelin	e Release				Release Unknow		Volume F Haul Sche	Recovered:	TBD	(Dig and	
Source of Re	lease: Corro	osion hole				Date and H Unknown	lour of Occurrence	e: I	Date and Hour of Discovery 7/24/2013 @ 07:00 hours 15.7. 3				
Was Immedia	ate Notice (l Vas. \Box	No Not R	i d	If YES, To	Whom?		OIL	10N2. pt	4 D.,		
D 11/1 0			Yes _	I NO M NOTE	equired	1 9 7113							
By Whom? Was a Water	Dan	ah ad2				Date and Hour AUU & B B B B B B B B B B B B B B B B B B							
was a water	course Rea		Yes 🗵] No		if 123, volume impacting the watercourse.							
If a Watercou	ırse was Im	pacted, Descr	ibe Fully.	*								-	
Describe Cause of Problem and Remedial Action Taken.* A possible line leak was identified during a routine line patrol. Leak was verified upon excavation. Pipeline was isolated, LOTO applied, and repairs were made. An additional leak was discovered in the excavation by a third party environmental contractor providing environmental assessment support to Enterprise Field Services. Additional repairs were made on July 28, 2013, which were successful repairs.													
Describe Area Affected and Cleanup Action Taken.* Approximately 175 cubic yards of contaminated soil was removed from the pipe leak location. Based on third party environmental contractor field screening, an estimated +/- 100 yards additional of contaminated soil will have to be excavated and hauled to an OCD permitted landfarm facility to achieve closure standards. A "final" c-141 report and a third party corrective action report will be submitted to applicable agencies once closure activities have 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:		M		· · ·		OIL CONSERVATION DIVISION Approved by Environmental Specialist.							
Printed Nam	e: Matt M	агта			-	FF0)			7074	W! ()_	<u> </u>	CUY	
Title: Sr. Director, Environmental Approval Date: 98/2013 Expiration Date:											0		

Conditions of Approval:

Date: 8-5-20/3 P
* Attach Additional Sheets If Necessary

Phone: 713-381-6684

E-mail Address: memarra@eprod.com

nJK1326153908



Attached

District 1 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico **Energy Minerals and Natural Resources**

Form C-141 Revised August 8, 2011

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

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

Release Notificati	on and Corrective Action	l								
		itial Report 🔲 Final Report								
Name of Company Enterprise Field Services, LLC	Contact Aaron Dailey									
Address 614 Reilly Avenue, Farmington NM 87401	Telephone No. (505)599-2286 Facility Type Natural Gas Gatheri	- Disalian								
Facility Name Lateral C-11 Gathering line	Facility Type Natural Gas Gatheri	ng Pipetine								
Surface Owner Navajo Allotment Mineral Owner	r Navajo	API No.								
LOCATION OF RELEASE										
Unit Letter Section Township Range Feet from the No. K 11 27N 9W	rth/South Line Feet from the East/V	Vest Line County San Juan								
Latitude_N36.589118 Longitude_W107.761424 (Decimal Degrees) RCVD AUG 1 '13 OIL CONS. DIV. NATURE OF RELEASE DIST. 3										
Type of Release Natural Gas	Volume of Release Unknown	Volume Recovered 50 yards petroleum impacted soil removed from location								
Source of Release Natural gas gathering pipeline	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 7/22/2013 @ 13:40 hours								
Was Immediate Notice Given? ☑ Yes ☐ No ☒ Not Require	If YES, To Whom? d Steve Austin (NNEPA)—Courtesy N	If YES, To Whom?								
By Whom? Aaron Dailey	Date and Hour 7/23/2013 @ 08:30 hours									
Was a Watercourse Reached? ☐ Yes ☐ No	If YES, Volume Impacting the Watercourse.									
If a Watercourse was Impacted, Describe Fully.*										
Describe Cause of Problem and Remedial Action Taken.* Suspected p repairs were made to multiple corrosion holes on the pipeline section.	ipe leak was excavated after line was isola	ited. Leak location was verified and								
Describe Area Affected and Cleanup Action Taken. A third party environmental contractor was dispatched to obtain soil samples from the spoil pile and walls of the excavation. Fifty cubic yards of contaminated soil was removed from the spoil pile that was excavated from the leak location. Further assessment is being conducted in order to determine impacts at the location in accordance with juristictional agency regulations and applicable guidance. A third party corrective action report summarizing these activities will be submitted with a "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: Matt Marra	Approved by Environmental Specialist:									
Title: Senior Director, Environmental	Approval Date: 9/14/2013 E	Expiration Date:								
E-mail Address: memarra@eprod.com	Conditions of Approval:									
Date: 7-26-70/3 Phone: (713)381-6684										

* Attach Additional Sheets If Necessary

nJK1326732294



District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Form C-141
Revised August 8, 2011
Submit 1 Copy to appropriate District Office in

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

			Rele	ease Notific	catio	on and Co	orrective A	ction		•			
							ГOR	itial Repo	ort [Final Report			
		terprise Field				Contact: A							
		Ave., Farming					No. 505-599-22	****					
Facility Nar	Facility Name Lateral 2A-3 Gathering Line						e: Natural gas g	athering line					
Surface Ow	Surface Owner: BLM Mineral Owner							API	No.				
				LOCA	ATIC	N OF RE	LEASE						
Unit Letter	Section	Township	Range	Feet from the		h/South Line	Feet from the	East/West Li	ne Count	y			
D	27	27N	10W						San Ju	12 n			
L			\	N 36 55101 I	ongit	ndo W 107 9	8884 (Decimal)	Dagrage)	Sur se	<u></u>			
		L	antuuc_		_			Degrees)					
T	NI	-I C Dili-	- D-1		UKI	E OF REL		17.		1			
Type of Kele	ase: Natur	al Gas Pipelin	e Release			Volume of	Release Unknow	I	ne Recover Scheduled)	ed: TBI	D (Dig and		
Source of Re	lease: Corre	osion hole					Hour of Occurrence	e: Date	nd Hour of		ry		
337 - J	NI-+' (7' 0				Unknown	1111 0	7.11.2	013 @ 15:0	00 hours			
Was Immedi	ate inotice (Yes [] No 🛛 Not R	equired	If YES, To) Whom?						
By Whom?						Date and Hour RCVD JIII 29 13							
Was a Water	course Read					If YES, Vo	If YES, Volume Impacting the Watercourse. OIL CONS. DIV.						
			Yes 🗵						Dī	ST.3			
If a Watercon	urse was Im	pacted, Descr	ibe Fully.	*									
Describe Cau	ise of Probl	em and Reme	dial Actio	n Taken.* Enterp	rise ga	s control was n	otified of a possib	ole line leak fro	n a third pa	arty. Ente	rprise		
							ne, and coordinate						
repairs could		tal worked to i	mitigate th	ne release location	by rei	moving the sta	ined soil on the su	irface of the pip	e release lo	cation un	itil permanent		
		and Cleanup A	Action Tal	ken.* Enterprise	Envir	onmental was	dispatched to the	location to veri	v that wate	r/conden	sate mix		
released fron	n the pipe le	ak was mitiga	ited prior	to equipment arriv	val. A	third party env	rironmental contra	actor was dispat	ched to the	leak loca	ition upon the		
repairs and p	rovided cle	anup guidance	. Approx	imately 70 cubic	yards (of contaminate	d soil was hauled	to an OCD peri	nitted land	farm faci	lity. A "final"		
							gencies once closi knowledge and u) rules and		
							and perform correct						
public health	or the envi	ronment. The	acceptan	ce of a C-141 rep	ort by 1	the NMOCD n	narked as "Final R	eport" does not	relieve the	operator	of liability		
							ion that pose a thr						
		ws and/or regi		otance of a C-141	героги	does not reliev	ve the operator of	responsibility i	or compitar	ice with a	iny other		
Tegerar, state	, 01 10001 10	o union or regi		· · · · · · · · · · · · · · · · · · ·		[OIL CON	SERVATIO	N DIVI	SION			
	1/	1					<u> </u>		1	1,	.]		
Signature:											lin		
Printed Nam	e: Matt M	arra			Approved by Environmental Specialist:					7			
Title: Sr. Di	rector, Env	ironmental				Approval Da	nte: 9/24/201	3 Expirat	on Date:				
			ım			Conditions of Approval:							
E-mail Address: memarra@eprod.com						Attached					•		
Date: 7-6	24-13	<u></u>	Phone	713-381-6684					- 1				

* Attach Additional Sheets If Necessary

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