

**3R-1011**

**Release Report/ General  
Correspondence**

**Enterprise SJ**

**Date: 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

Form C-141  
Revised August 8, 2011

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

**Release Notification and Corrective Action**

**OPERATOR**

☐ Initial Report ☒ Final Report

Name of Company Enterprise Field Services, LLC	Contact Aaron Dailey	
Address 614 Reilly Avenue, Farmington NM 87401	Telephone No. (505)599-2286	
Facility Name Bisti Pigging Receiver	Facility Type Pipeline pigging receiver	
Surface Owner NAPI/Navajo Tribal	Mineral Owner Navajo Tribal	API No.

**LOCATION OF RELEASE**

Unit Letter C/D	Section 21	Township 26N	Range 12W	Feet from the	North/South Line	Feet from the	East/West Line	County San Juan
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**OIL CONS. DIV DIST. 3**

Latitude \_N 36.4807\_ Longitude \_W 108.1220\_

**FEB 19 2013**

**NATURE OF RELEASE**

Type of Release Natural Gas Condensate and Produced Water	Volume of Release 80 Barrels to lined containment and 5 barrels to surrounding soil	Volume Recovered 80 barrels recovered from lined containment, 1 barrel liquid from surrounding soil and 45 yards (est) of hydrocarbon impacted soil
Source of Release Bisti cigar 100 barrel vent tank	Date and Hour of Occurrence 4.25.2012 @ 11:45 hours	Date and Hour of Discovery 4.25.2012 @ 11:45 hours
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Steve Austin with Navajo EPA and Brenette Pine with NAPI	
By Whom? Aaron Dailey	Date and Hour 4.25.2012 @ 13:00 hours	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	


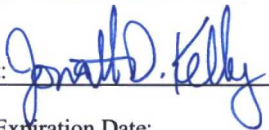
If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*

Plugged line caused reservoir relief valve to open, which caused the 100 barrel tank to overtop. Approximately 80 barrels was released into the lined containment area and approximately 5 barrels of condensate was released to the surrounding soil. 80 barrels of condensate was recovered from the lined containment and approximately 1 barrel of condensate was recovered from the surrounding soils within 2 hours of the time of the release. Navajo Nation Environmental Protection Agency (NNEPA) and Navajo Agricultural Products Industries (NAPI) points of contact were notified of the release and corrective actions to be conducted.

Describe Area Affected and Cleanup Action Taken.\* Mechanical cleanup (dig and haul) to remove impacted soil surrounding the tank and containment was conducted on 4.25/4.26.2012 and third party environmental confirmation sampling was done 4.27.2012. The third party environmental corrective action report is attached and being submitted to the NNEPA, NAPI, and the NM OCD Aztec office. This report articulates the final confirmation sampling conducted at the location.

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: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Matt Marra	Approved by Environmental Specialist: 	
Title: Sr. Director, Environmental	Approval Date: 4/9/2013	Expiration Date:
E-mail Address: memarra@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 2-12-2013 Phone: (713)381-6684		

\* Attach Additional Sheets If Necessary

NJK1300927584



Animas Environmental Services, LLC

www.animasenvironmental.com

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

Durango, Colorado  
970-403-3084

January 17, 2013

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

**RE: Bisti Pig Receiver April 2012 Release  
Confirmation Soil Sampling Report  
NW¼ NW¼, Section 21, T26N, R12W  
San Juan County, New Mexico**

**OIL CONS. DIV DIST. 3**

**FEB 19 2013**

Dear Mr. Dailey:

On November 26, 2012, Animas Environmental Services, LLC (AES) completed confirmation soil sampling to verify biodegradation of residual petroleum hydrocarbons associated with a release of natural gas condensate from the Enterprise Field Services, LLC (Enterprise) Bisti Pig Receiver. The initial release was discovered by Enterprise on April 25, 2012, and was the result of a plugged line that caused a relief valve to open. Repair and mitigation activities were completed on April 27, 2012, and documented in the AES report entitled *Revised Bisti Pig Receiver Release Report* dated July 18, 2012.

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## 1.0 Release Location

### 1.1 Location

Location - NW¼ NW¼, Section 21, T26N, R12W, San Juan County, New Mexico

Latitude/Longitude - N36.48053 and W108.12183, respectively

Surface Owner – Navajo Agricultural Products Industry (NAPI)

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map

### 1.2 Release Ranking

The Navajo Nation Environmental Protection Agency (NNEPA) does not have codified regulations or guidelines for oil and gas release response protocol. NNEPA requested that Enterprise follow the release protocol written in the New Mexico Oil Conservation Division (NMOCD) *Guidelines for Remediation of Leaks, Spills, and Releases*, October 13, 1993.

Prior to beginning the site investigation, the NMOCD database was reviewed, and multiple reports for groundwater monitoring at Chaco Plant indicate depth to groundwater ranges

across the location from 4 feet below ground surface (bgs) to 25 feet bgs. Additionally, the New Mexico Office of the State Engineer (NMOSE) database was reviewed for the presence of nearby water wells, and no nearby registered water well records were located.

Google Earth and the New Mexico Tech Petroleum Recovery Research Center online mapping tool (<http://ford.nmt.edu/react/project.html>) were further accessed to aid in the identification of downgradient surface water. No surface water bodies were identified within 1,000 feet of the release location; however, an irrigated NAPI field is located approximately 260 feet south of the release location. The release site has been assessed a ranking score of 20.

### *1.3 Initial Release Report Summary*

On April 27, 2012, after repairs were completed, approximately 80 cubic yards (cy) and 85 barrels (bbls) of petroleum hydrocarbon contaminated soils were excavated and transported for disposal at a licensed remediation facility. The final excavation measured approximately 122 feet long by 24 feet wide by 1.5 feet deep. AES collected one composite soil sample from the excavation base for field screening and laboratory analysis. Total benzene, toluene, ethylbenzene, and xylenes (BTEX) were either below laboratory detection limits or below the applicable NMOCD action levels; however total petroleum hydrocarbons (TPH) concentrations exceeded the NMOCD action levels with 240 mg/kg gasoline range organics (GRO) and 1,600 mg/kg diesel range organics (DRO).

AES recommended treatment of the impacted area with a microbial solution to aid in the biodegradation of the residual petroleum hydrocarbon contamination. Additional details of the release assessment were submitted in the AES report dated July 18, 2012.

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## **2.0 Microbial Solution Application and Confirmation Soil Sampling**

### *2.1 Microbial Solution Application*

On August 10, 2012, Alpha Bioscience Company applied 550 gallons of a microbial bioremediation solution over a 1,850 square foot area at the release site. A second application of 150 gallons was applied to the release area on October 4, 2012.

### *2.2 Confirmation Soil Sampling*

On November 26, 2012, Ross Kennemer of AES installed five soil borings (S-1 through S-5) with a hand auger to a depth of 1.25 feet bgs in the vicinity of the initial assessment

sample locations. The samples were composited into SC-1 and submitted for confirmation laboratory analysis.

### 2.2.1 Laboratory Analyses

The sample SC-1 collected for laboratory analysis was placed into a new, clean, laboratory-supplied container, which was then labeled, placed on ice, and logged onto a sample chain of custody record. The sample was maintained on ice until delivery to the analytical laboratory, Hall, in Albuquerque, New Mexico. The soil sample was laboratory analyzed for:

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

### 2.2.2 Laboratory Analytical Results

Laboratory analytical results for benzene, total BTEX, and TPH as GRO and DRO in SC-1 were below laboratory detection limits and are included in Table 1 and on Figure 3. Laboratory analytical reports are attached.

Table 1. Laboratory Analytical Results  
Bisti Pig Receiver April 2012 Release  
November 2012 Confirmation Soil Sampling


<i>Sample ID</i>	<i>Date Sampled</i>	<i>Depth (ft)</i>	<i>Benzene (mg/kg)</i>	<i>Total BTEX (mg/kg)</i>	<i>TPH GRO (mg/kg)</i>	<i>TPH DRO (mg/kg)</i>
<b>NMOCD Action Level</b>			<b>10</b>	<b>50</b>	<b>100</b>	
SC-1	11/26/12	1.25	<0.048	<0.24	<4.8	<9.9

## 3.0 Conclusions and Recommendations

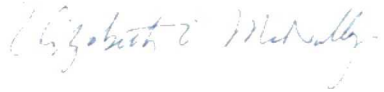
Alpha Bioscience Company applied a microbial bioremediation solution to the Bisti Pig Receiver April 2012 release area on August 10 and October 4, 2012. AES conducted confirmation soil sampling to confirm biodegradation of residual petroleum hydrocarbons on November 26, 2012. Based on field observations and laboratory analytical results for the confirmation soil samples, residual petroleum hydrocarbon impacted soils no longer exceed the applicable NMOCD action levels. No further work is recommended at the Bisti Pig Receiver release location.

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

Sincerely,



Landrea Cupps  
Environmental Scientist



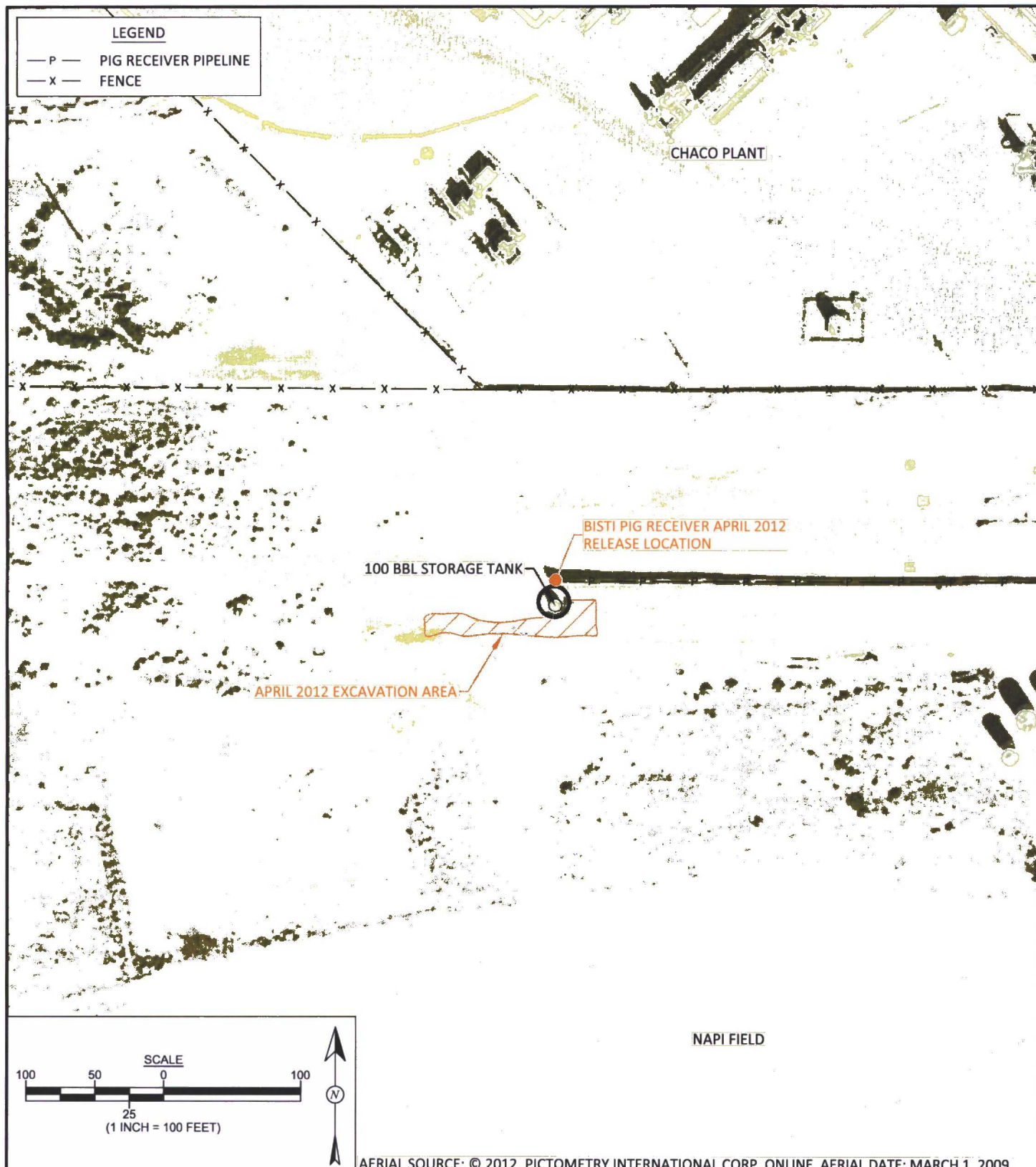
Elizabeth McNally, P.E.

Attachments:

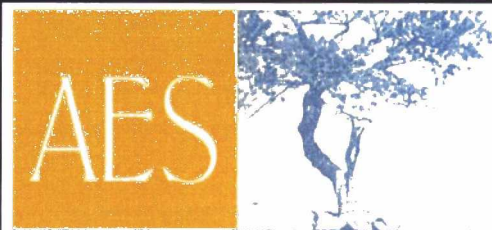
- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Location Map
- Figure 3. Confirmation Soil Sample Locations and Results, November 2012
- Laboratory Analytical Reports (Hall 1211942)

C:\Dropbox\2013 Projects\Enterprise\Bisti Pig Receiver\Bisti Pig Receiver Soil Confirmation Sampling Report  
011713.docx





AERIAL SOURCE: © 2012. PICTOMETRY INTERNATIONAL CORP. ONLINE, AERIAL DATE: MARCH 1, 2009.



Animas Environmental Services, LLC

**DRAWN BY:**  
K. Christiansen

**DATE DRAWN:**  
April 30, 2012

**REVISIONS BY:**  
C. Lameman

**DATE REVISED:**  
December 28, 2012

**CHECKED BY:**  
T. Ross

**DATE CHECKED:**  
December 28, 2012

**APPROVED BY:**  
E. McNally

**DATE APPROVED:**  
December 28, 2012

## FIGURE 2

**AERIAL SITE MAP**  
ENTERPRISE FIELD SERVICES, LLC  
BISTI PIG RECEIVER APRIL 2012 RELEASE  
SAN JUAN COUNTY, NEW MEXICO  
NW¼, NW¼, SECTION 21, T26N, R12W  
N36.48053, W108.12183

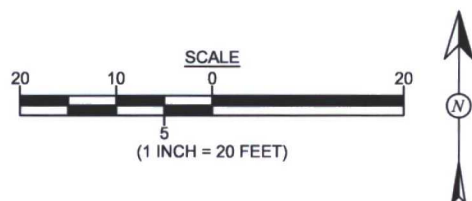
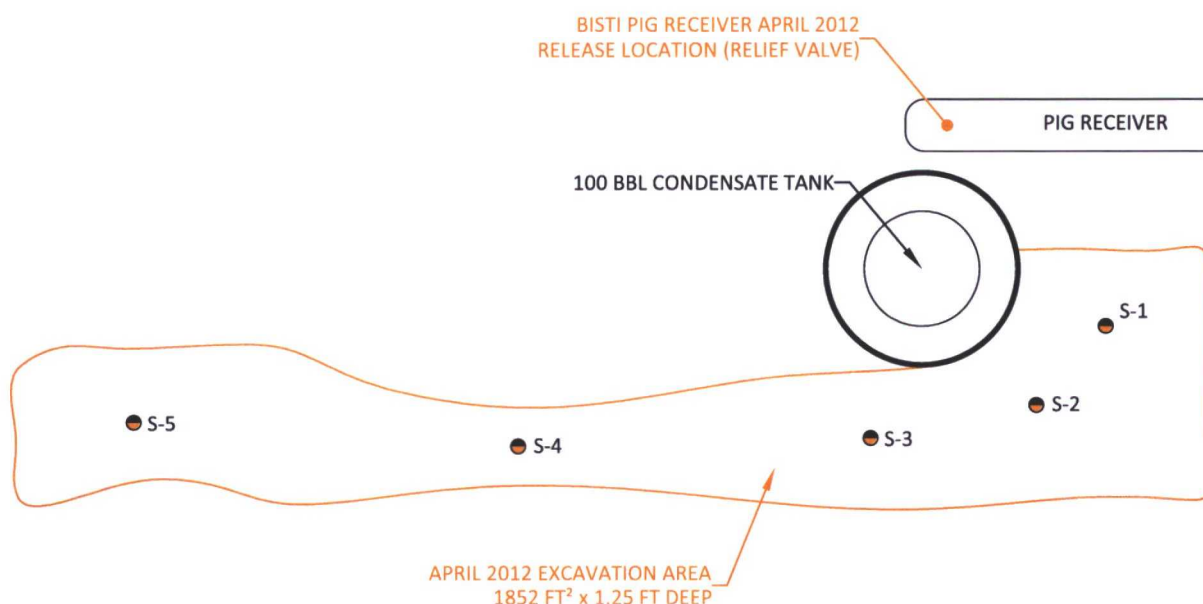
# LEGEND

-  SAMPLE LOCATIONS
-  SECONDARY CONTAINMENT

## Laboratory Analytical Results

Sample ID	Date	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)
<b>NMOCD ACTION LEVEL</b>			<b>10</b>	<b>50</b>	<b>100</b>	
SC-1	11/26/12	1.25	<0.048	<0.24	<4.8	<9.9

NOTE: SC-1 IS A COMPOSITE OF S-1 THROUGH S-5. SAMPLE WAS ANALYZED PER EPA METHOD 8021B AND 8015B.



**DRAWN BY:**

K. Christiansen

**DATE DRAWN:**

April 22, 2012

**REVISIONS BY:**

C. Lameman

**DATE REVISED:**

December 28, 2012

**CHECKED BY:**

T. Ross

**DATE CHECKED:**

December 28, 2012

**APPROVED BY:**

E. McNally

**DATE APPROVED:**

December 28, 2012

## FIGURE 3

### CONFIRMATION SOIL SAMPLE LOCATIONS AND RESULTS NOVEMBER 2012

ENTERPRISE FIELD SERVICES, LLC  
BISTI PIG RECEIVER APRIL 2012 RELEASE  
SAN JUAN COUNTY, NEW MEXICO  
NW¼ NW¼, SECTION 21, T26N, R12W  
N36.48053, W108.12183



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

November 30, 2012

Ross Kennemer

Animas Environmental Services

624 East Comanche

Farmington, NM 87401

TEL: (505) 486-1776

FAX (505) 324-2022

RE: Enterprise Bisti Pig Receiver

OrderNo.: 1211942

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory received 1 sample(s) on 11/27/2012 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](http://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

4901 Hawkins NE

Albuquerque, NM 87109

**Analytical Report**

Lab Order 1211942

Date Reported: 11/30/2012

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Animas Environmental Services**Client Sample ID:** SC-1**Project:** Enterprise Bisti Pig Receiver**Collection Date:** 11/26/2012 11:20:00 AM**Lab ID:** 1211942-001**Matrix:** SOIL**Received Date:** 11/27/2012 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: <b>MMD</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/29/2012 11:26:53 AM
Surr: DNOP	99.7	77.6-140		%REC	1	11/29/2012 11:26:53 AM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/28/2012 2:30:38 PM
Surr: BFB	113	84-116		%REC	1	11/28/2012 2:30:38 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.048		mg/Kg	1	11/28/2012 2:30:38 PM
Toluene	ND	0.048		mg/Kg	1	11/28/2012 2:30:38 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/28/2012 2:30:38 PM
Xylenes, Total	ND	0.096		mg/Kg	1	11/28/2012 2:30:38 PM
Surr: 4-Bromofluorobenzene	109	80-120		%REC	1	11/28/2012 2:30:38 PM

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- 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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1211942

30-Nov-12

Client: Animas Environmental Services

Project: Enterprise Bisti Pig Receiver

Sample ID	MB-5006	SampType:	MBLK	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	PBS	Batch ID:	5006	RunNo:	7200					
Prep Date:	11/28/2012	Analysis Date:	11/29/2012	SeqNo:	208701	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	10		10.00		103	77.6	140			

Sample ID	LCS-5006	SampType:	LCS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	5006	RunNo:	7200					
Prep Date:	11/28/2012	Analysis Date:	11/29/2012	SeqNo:	208704	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	96.0	47.4	122			
Surr: DNOP	4.6		5.000		91.7	77.6	140			

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- 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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1211942

30-Nov-12

Client: Animas Environmental Services

Project: Enterprise Bisti Pig Receiver

Sample ID	<b>MB-4994</b>		SampType:	<b>MBLK</b>		TestCode:	<b>EPA Method 8015B: Gasoline Range</b>			
Client ID:	<b>PBS</b>		Batch ID:	<b>4994</b>		RunNo:	<b>7164</b>			
Prep Date:	<b>11/27/2012</b>		Analysis Date:	<b>11/28/2012</b>		SeqNo:	<b>207710</b>		Units: <b>mg/Kg</b>	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	960		1000		95.9	84	116			

Sample ID	<b>LCS-4994</b>		SampType:	<b>LCS</b>		TestCode:	<b>EPA Method 8015B: Gasoline Range</b>			
Client ID:	<b>LCSS</b>		Batch ID:	<b>4994</b>		RunNo:	<b>7164</b>			
Prep Date:	<b>11/27/2012</b>		Analysis Date:	<b>11/28/2012</b>		SeqNo:	<b>207711</b>		Units: <b>mg/Kg</b>	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.0	74	117			
Surr: BFB	1000		1000		100	84	116			

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- 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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1211942

30-Nov-12

Client: Animas Environmental Services

Project: Enterprise Bisti Pig Receiver

Sample ID	<b>MB-4994</b>		SampType:	<b>MBLK</b>		TestCode:	<b>EPA Method 8021B: Volatiles</b>			
Client ID:	<b>PBS</b>		Batch ID:	<b>4994</b>		RunNo:	<b>7164</b>			
Prep Date:	<b>11/27/2012</b>		Analysis Date:	<b>11/28/2012</b>		SeqNo:	<b>207762</b>		Units: <b>mg/Kg</b>	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120			

Sample ID	<b>LCS-4994</b>		SampType:	<b>LCS</b>		TestCode:	<b>EPA Method 8021B: Volatiles</b>			
Client ID:	<b>LCSS</b>		Batch ID:	<b>4994</b>		RunNo:	<b>7164</b>			
Prep Date:	<b>11/27/2012</b>		Analysis Date:	<b>11/28/2012</b>		SeqNo:	<b>207763</b>		Units: <b>mg/Kg</b>	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.050	1.000	0	98.9	76.3	117			
Toluene	1.0	0.050	1.000	0	101	80	120			
Ethylbenzene	1.0	0.050	1.000	0	102	77	116			
Xylenes, Total	3.1	0.10	3.000	0	103	76.7	117			
Surr: 4-Bromofluorobenzene	1.1		1.000		113	80	120			

## Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2

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

## Sample Log-In Check List

Client Name: Animas Environmental Work Order Number: 1211942

Received by/date: AG 11/27/12

Logged By: Michelle Garcia 11/27/2012 9:45:00 AM

*Michelle Garcia*

Completed By: Michelle Garcia 11/27/2012 10:28:45 AM

*Michelle Garcia*

Reviewed By: mg / [Signature] 11/27/12

### Chain of Custody

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

### Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA ☐
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐

7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐

11. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved  
bottles checked  
for pH: \_\_\_\_\_

(<2 or >12 unless noted)

Adjusted? \_\_\_\_\_

Checked by: \_\_\_\_\_

### Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
By Whom: \_\_\_\_\_ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person  
Regarding: \_\_\_\_\_  
Client Instructions: \_\_\_\_\_

18. Additional remarks:

### 19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.4	Good	Yes			

Client: Animas Environmental Services

Mailing Address: 624 E Comanche  
Farmington NM 87401

Phone #: 505-564-2281

email or Fax#:

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other \_\_\_\_\_

☐ EDD (Type)

☒ Standard      ☐ Rush

Enterprise Bisti Ptg Receiver

Project #:

**Project Manager:**

R. Kenner

Sampler: R. Kenner

On Ice: ☒ Yes ☐ No

Sample Temperature: 14

## HEALING

12119  
-001

X BTEX + ~~\_\_\_\_\_~~ (8021)

BTEX + MTBE + TPH (Gas only)

X	TPH Method 8015B (Gas/Diesel)	620/640
---	-------------------------------	---------

TPH (Method 418.1)

EDB (Method 504.1)

8310 (PNA or PAH)

RCRA 8 Metals

	NONA S Metals
	Anions (F, Cl, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> )

9081	Beetleidos / 9082	BCB's
------	-------------------	-------

0001 Feslicides

	8Z6UB (VOA)
--	-------------

8270 (Semi-VOA)	
-----------------	--

[illegible]

--	--


	Al: D: k: l: o: V: o: A:
--	--------------------------

# THE

Date:	Time:	Relinquished by:
1-26-12	1714	[Signature]

Date:	Time:	Relinquished by:
11/26/12	1739	Christina Wells

Received by: Christine Welter Date 11/26/12 Time 17:14

Received by:	Date	Time
	11/27/12	0945

Remarks:

BILL TO  
ENTERPRISE PRODUCTS COMPANY

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

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

State of New Mexico  
Energy Minerals and Natural Resources

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

Form C-141  
Revised August 8, 2011

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

**Release Notification and Corrective Action**

**OPERATOR**

☐ Initial Report ☒ Initial/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 Hamner #9 Line Drip Tank	Facility Type Natural Gas Gathering Meter Tube

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

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	20	29N	9W					San Juan

Latitude\_N 36.71680 Longitude\_W 107.79496 (decimal degrees)\_

RCVD FEB 4 '13  
OIL CONS. DIV.  
DIST. 3

**NATURE OF RELEASE**


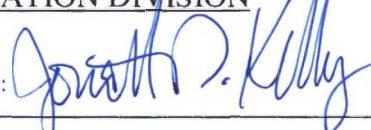
Type of Release Natural Gas vapor and liquid	Volume of Release 2326 MCF gas to atmosphere (estimated)	Volume Recovered Gas vapor to atmosphere
Source of Release 4" natural gas meter tube location	Date and Hour of Occurrence 1/27/2013 @ 9:31 hours	Date and Hour of Discovery Gas loss calculated on 1/28/2013 @ 10:16 hours
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Brandon Powell, Aztec district office (e-mail and phone message)	
By Whom? Aaron Dailey	Date and Hour 1/28/2013 @ 10:44 hours	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\* Enterprise measurement technician found a one inch valve blowing gas to the atmosphere. Two gathering technicians were dispatched to the Hamner #9 drip tank and the drip line was removed from service. The one inch valve was replaced and plugged until the blow line to the tank can be repaired. The gathering line has been placed back into service. There was no visual spill upon arrival on site only gas was released. This is a non DOT location.

Describe Area Affected and Cleanup Action Taken.\* Gas loss to atmosphere; no impact to soils.

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: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Matt Marra	Approved by Environmental Specialist: 	
Title: Senior Director, Environmental	Approval Date: 2/27/2013	Expiration Date:
E-mail Address: memarra@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 1-31-2013 Phone: 713-381-6684		

\* Attach Additional Sheets If Necessary

nJK 1305851540

**From:** Dailey, Aaron  
**To:** "brandon.powell@state.nm.us"  
**Subject:** FW: San Juan/Northern Rockies GP Incident Notification!  
**Date:** Monday, January 28, 2013 10:44:00 AM

---

Hi Brandon, just got the gas loss for this one in. It was at 2,326 MCF. I will follow up with a phone call.

Sincerely,  
aaron

---

**From:** ecirts@eprod.com [mailto:ecirts@eprod.com]

**Sent:** Monday, January 28, 2013 10:16 AM

**To:** Vitolo, Tony; Bennett, Aaron; Roberts, Adam; Coombs, Aspen; Dailey, Aaron; Pappas, Amber; Mouton, Angela; Poppenhusen, Angy; Randall, Alan; Crockett, Alan; Siemer, Alan; Lopez, Alex; barmanta@eprod.com; Ashenfelter, Brett; Bliss, Benny; Booth, Brian; Booth, Brian; begahagan@eprod.com; Spencer, Brian; Gibson, Bill; HergemueLLer, Bob; Herring, Bobby; Dulban, Ben; Kiser, Brad; Sossaman, Brian; blevans@eprod.com; Mueller, Brian; Ordemann, Bill; Sullins, Brandon; Sullins, Brandon; Steed, Brett; Wheatley, Bruce; Wilson, Bobby; Auld, Charles (Tony); Barnes, Clyde; O'Nan, Charles; Truby, Chase; Barksdale, Chad; Goos, Coby; Eddy, Chet; cjlord@eprod.com; VanCleave, Cindy; Hause, Christopher; Roy, Chris; Timmerman, Chad; Saxton, Cody; Cartwright, Christine; Bolon, Dave; Stewart, Daniel; Hatch, Don; Rich, Don; D'Aquila, Douglas; D'Aquila, Douglas; djstucky@eprod.com; Hotzel, Devin; Kingham, Danny; Oldaker, David; Thompson, Dale; Morris, Doug; Morrow, Derrell; Morrow, Derrell; Mueller, Dan; Williams, Don; Wall, Daryl; Anderson, Don; Dixon, Dwayne; Dixon, Dwayne; Garman, David; Zimple, David; Arceneaux, Erick; Fonseca, Elizabeth; Choong, Evelyn; eeeaker@eprod.com; Skeet, Everett; egarrison@eprod.com; Wood, Eric; Martin, Edmund; Gonzalez, Francisco; Bacon, Graham; Chapman, Gregory; Esterholm, Glen; Turner, Gary; Hale, Gregory; Huntsman, Gilbert; John, George; Arredondo, Gary; Moon, Greg; Roever, Gerald; Stratmann, Gerry; Tarver, George; Watkins, Gregory; Benson, Rick; Graves, Harold; Robertson, Heath; Roddy, Howard; Zirbes, Ivan; Huckaby, James; Rogers, John A.; Lafond, Jeff; Bollom, John; Tibbets, JB; Morton, Jeffrey; Cooksey, John; jdcrawford@eprod.com; McCullough, Joshua; McElhaney, Jeff; Emerson, James; Baldovinos, Jose; Gregoire, Jesse; Hoffstadt, Jeff; Holland, Dennis; jjewett@eprod.com; jkbrown@eprod.com; Kingston, Joel; Kohler, Joel; Cooper, Jamie; McDowell, Jack; Marquis, James; Bauer, John; Bauer, John; McGuire, Jeff; Hurt, Joseph; Mollhagen, Jennifer; Munoz, Jerry; Blackburn, Jason; Munoz, Jamie; Ontiberoz, Joel; Fristoe, Jimmy; Whitney, Joseph; Myers, Jeff; Sobilo, Joe; Rogers, John; jsterrett@eprod.com; Stoolman, Jeff; Teague, Jim; jtibbets@eprod.com; jtillman@eprod.com; Myers, Jeffrey V; Bodenhamer, Kevin; Carney, Ken; Costlow, Kyle; Fulton, Kenny; Dostal, Kevin; Ramsey, Kevin; Cryblskey, Kevin; Lopez, Karla; Oleszek, Kristy; Passmore, Kennie; Valdez, Kenneth; Ables, Byron; Armstrong, Blair; Armstrong, Blair; Armstrong, Blair; Dobel, Lisa; Francisco, Leo; Kaderli, Linda; Rodriguez, Linda; Leidy, Kent; Lucero, Lloyd; Rogers, Leon; Simpson, Lynn; Sanders, Leann; Sandoval, Larry; Setliff, Lonnie; Anderson, Larry; Mallett, Leonard; Adrian, Major; Todd, Mike; Blackwood, Max; Blackwood, Max; Burleson, Michael; Creel, Mike; Baylie, Michael; Lee, Michael; mdstjohn@eprod.com; Eddleman, M; Garcia, Mari; Marra, Matthew; Bailey, Mark; Bailey, Mark; Cowden, Mike; Mungas, Mike; Waszut, Michael; Hamon, Matthew; Hicks, Michael; mjmurphy@eprod.com; mkirish@eprod.com; May, Marvin; Snodgrass, Mike; Mayfield, Michael; McLaughlin, Michael; Caudle, Mark; Stratmann, Matt; Mayo, Michael; Seitzinger, Mike; Ulibarri, Mark; Frank, Michael; Truong, Nhan; Bighorse, Peet; Clah, Phillip; Hale, Preston; Quintana, Paul; Phan, Phu; Phan, Phu; Cooper, Robert; Akins, Robert; Morris, Ralph; Nielsen, Rod; Prentiss, Chip; Williams, Richard; Baysinger, Randy; Belveal, Roger; Pape, Ray; Cantu, Roman; Stuart, Randy; Edwards, Russell D.; Dunn, Roy; rduran@eprod.com; Brown, Randell; Lee, Richard; Fullmer, Rick; Ryan, Ron; Hill, Ron; Hutchison, Richard; Daves, Bob; Martin, Roy; LaSalle, Richard; rldavis@eprod.com; McBee, Robert; Marshall, Ron; Moore, Richard; Richard, Randy; North, Robert; Parks, Rik!; Rainey, Rick; LeClair, Richard; Seale, Runell; RSipe@eprod.com; Montoy, Richard; Bain, Richard; Thompson, Roger; Jewell, Ricky; McBrayer, Richard; Johnson, Russell; rwjames@eprod.com; Berry, Sharon; Brennan, Shawn; scase@eprod.com; Cochran, Stephen; Cooley, Shane; Clelland, Sarah; sfranks@eprod.com; Kelly, Sean; Hughes, Samuel; Lair, Steve; Liberty, Schanen; Nolan, Shiver; Pudlewski, Steve; Alley, Steve; Taylor, Sandy; Toth, Scott; Trujillo, Sharon; Duplantis, Terry; Greenwald, Trevor; Berry, Tim; Billiot, Timothy; Boisen, Troy; Burns, Tom; Blacker, Thomas; Hurlburt, Terry; Sisung, Ty; Smith, Terah; Morrison, Todd; Gaston, Tyler; Taylor,

Terry; Schutt, Tim; Forrester, Timothy; Whitaker, Taylor; Crawford, Victor; Crawford, Victor; Crawford, Victor; Jones, Forrest; Pelkey, Guy; Harrison, Blaze; Mischefsky, John; Burrell, Neal; wrdavenport@epco.com; Rook, William; MassomZadeh, Bonnie; Dobel, Lisa; Lee, Stephen; Lieb, James; Mungas, Mike

**Subject:** San Juan/Northern Rockies GP Incident Notification!

**A Preliminary Incident Report has been generated!**

**SUBMITTED BY:** Chad Timmerman  
**REGION:** San Juan/Northern Rockies GP  
**STATE:** New Mexico  
**LOCATION:** EPO TANK HAMNER #9 - TANK, STORAGE  
**SERVER:** <http://oesprd01-corp/ecirts/>  
**INCIDENT INVOLVED:** • Equipment Damage  
• Gas Release  
**DESCRIPTION:** On January 27, 2013 at 9:31am an Enterprise measurement technician found a one inch valve blowing gas to the atmosphere. Two gathering technicians were dispatched to the Hamner #9 drip tank and the drip line was removed from service. The one inch valve was replaced and plugged until the blow line to the tank can be repaired. The gathering line has been placed back into service. There was no visual spill upon arrival on site only gas was released. This is a non DOT location. GPS N36.71680 W - 107.79496 Section 20, Township 29N, Range 9W.

**Click on the following link to view the PIR Report:**

[\[Preliminary Report\]](#)

**Click on the following link to view the printable PIR Report (login not needed):**

[\[Printable Preliminary Report\]](#)

**An Environmental Incident Type has been selected! Please click on the following link to Launch the Spills application and fill out the Required Environmental information:**

[\[Launch Spills Application\]](#)

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

State of New Mexico  
Energy Minerals and Natural Resources

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

Form C-141  
Revised August 8, 2011

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

**Release Notification and Corrective Action**

**OPERATOR**

☐ Initial Report ☒ **Corrected** Initial/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 Ruby Corscot #1	Facility Type Natural Gas Gathering Meter Tube

Surface Owner Private	Mineral Owner Private	API No.
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**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
C	25	30N	12W					San Juan

**Latitude**\_N 36.7884\_ **Longitude**\_W 108.0527 (decimal degrees)\_

**NATURE OF RELEASE**

Type of Release Natural Gas vapor and liquid	Volume of Release 648 MCF gas and 1 bbl liquid	Volume Recovered Gas vapor to atmosphere; potential soil cleanup/remediation TBD
Source of Release 4" natural gas meter tube location	Date and Hour of Occurrence 12/31/2012 @ 19:02 hours (estimated)	Date and Hour of Discovery Gas loss calculated on 1/2/2013 @ 10:15 hours
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Brandon Powell, Aztec district office	<b>RCVD FEB 4 '13 OIL CONS. DIV. DIST. 3</b>
By Whom? Aaron Dailey	Date and Hour 1/2/2013 @ 10:26 hours	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	


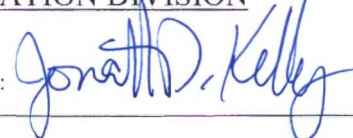
If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*

Enterprise gas control received a call from foreign operator/producer that gas was leaking on location, Enterprise employees were dispatched, isolated meter run and applied lockout tag out. After the meter tube was isolated it was discovered that the orifice flange had frozen and was leaking natural gas.

Describe Area Affected and Cleanup Action Taken.\* Majority of gas loss was to atmosphere; approximately 1 barrel of condensate/water mix was released and was cleaned up promptly and hauled to an OCD approved landfarm facility.

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: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Matt Marra	Approved by Environmental Specialist: 	
Title: Senior Director, Environmental	Approval Date: 2/27/2013	Expiration Date:
E-mail Address: memarra@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 1-31-2013 Phone: 713-381-6684		

\* Attach Additional Sheets If Necessary

ASK130:5851155

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 ☒ Initial/Final **Corrected** 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	Huerfanito #552	Facility Type	Natural Gas Gathering Meter Tube

Surface Owner	Navajo	Mineral Owner	Navajo	API No.
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**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	24	27 N	9 W					San Juan

**Latitude**\_N 36.5621\_ **Longitude**\_W 107.7350 (decimal degrees)\_

**NATURE OF RELEASE**

Type of Release	Natural gas vapor	Volume of Release	442 MCF	Volume Recovered	Gas vapor to atmosphere; no liquids released
Source of Release	4" natural gas meter tube location	Date and Hour of Occurrence	12/31/2012 hours @ 06:00 hours (estimated)	Date and Hour of Discovery	Gas loss calculated on 12/31/2012 @ 13:40 hours
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	RCVD FEB 4 '13		
By Whom?	Aaron Dailey	Date and Hour	OIL CONS. DIV.		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	DIST. 3		

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\* Enterprise Measurement Department was notified of split piping on the Huerfanito #552. Area technician responded and found the producer's piping had split on the upstream side of the meter run. Technician isolated meter run and locked and tagged out the associated valves.

Describe Area Affected and Cleanup Action Taken.\* Gas loss to atmosphere; no liquids were found to be associated with this release.

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: 		<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Matt Marra		Approved by Environmental Specialist: 	
Title: Senior Director, Environmental		Approval Date: 2/27/2013 Expiration Date:	
E-mail Address: memarra@eprod.com		Conditions of Approval:	
Date: 1-31-2013 Phone: 713-381-6684		Attached <input type="checkbox"/>	

\* Attach Additional Sheets If Necessary

NDK 130585/011

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

Name of Company Enterprise Field Services, LLC	Contact Aaron Dailey
Address 614 Reilly Avenue, Farmington, NM 87401	Telephone No. (505) 599-2286
Facility Name Turner A #1A	Facility Type Natural Gas Gathering Meter Tube

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

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
C	34	31 N	11 W					San Juan

**Latitude** \_N 36.859\_ **Longitude** \_W 107.982 (decimal degrees)\_

**NATURE OF RELEASE**


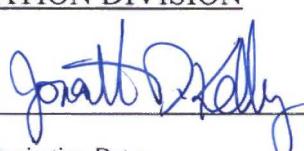
Type of Release Natural gas vapor and condensate	Volume of Release 260 MCF and 20 gallons liquid estimated	Volume Recovered
Source of Release natural gas gathering meter tube location	Date and Hour of Occurrence 1/22/2013 @ 04:00 hours	Date and Hour of Discovery 1/22/2013 @ 08:00 hours
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? <b>RCVD JAN 28 '13</b>	
By Whom? Aaron Dailey	Date and Hour <b>OIL CONS. DIV.</b>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. <b>DIST. 3</b>	

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\* Third party producer notified Enterprise employee that the meter run on the Turner A #1A MV was split and had leaked water and gas. The producer shut the upstream and downstream block valves upon discovery. Enterprise employee went to the location to inspect and found a split approximately 16" long by 1/16" wide in the meter run piping downstream of the orifice plate. A six foot square area under the split was discovered to have been stained with condensate.

Describe Area Affected and Cleanup Action Taken.\* A third party contractor, to include an environmental contractor, were dispatched to the area on 1/24/2013 to clean up the area using dig and haul methods. A third party environmental corrective action report will be submitted to the agency once complete.

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: 		<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Matt Marra		Approved by Environmental Specialist: 	
Title: Senior Director, Environmental		Approval Date: 2/27/2013	Expiration Date:
E-mail Address: memarra@eprod.com		Conditions of Approval:	
Date: 1-24-2013 Phone: 713-381-6684		Attached <input type="checkbox"/>	

\* Attach Additional Sheets If Necessary

NDK1305853403

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

Name of Company: Enterprise Field Services, LLC	Contact: Aaron Dailey	
Address: 614 Reilly Ave, Farmington, New Mexico	Telephone No: (505) 599-2124	
Facility Name: 3B-30 Pipeline	Facility Type: Natural Gas Pipeline	
Surface Owner: Private	Mineral Owner: Private	API No.

**LOCATION OF RELEASE**

Unit Letter E	Section 13	Township 29N	Range 11W	Feet from the	North/South Line	Feet from the	East/West Line	County San Juan
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Latitude N 36.7266 Longitude W -107.9485

**NATURE OF RELEASE**

Type of Release: Water released through corrosion hole in pipeline during hydrostatic test	Volume of Release: 30-40 BBL hydrotest water	Volume Recovered: None
Source of Release: Natural Gas Pipeline	Date and Hour of Occurrence: 9/20/2012 @ 18:00 hours (estimated)	Date and Hour of Discovery: 09/20/2012 @ 19:00 hours
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Brandon Powell	
By Whom? Aaron Dailey	Date and Hour: 9/21/2012 @ approximately 08:00 hours	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

RCVD JAN 22 '13

If a Watercourse was Impacted, Describe Fully.\*  
No Watercourse Reached.


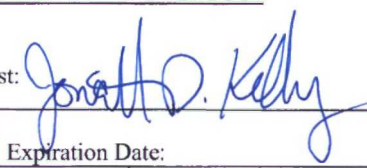
OIL CONS. DIV.  
DIST. 3

Describe Cause of Problem and Remedial Action Taken.\* 4 inch gathering line lost pressure during a DOT required hydrostatic test. It is estimated that approximately 30-40 barrels of clean hydrostatic test water from a municipal water source was released over time from the corrosion hole that was created during the hydrostatic test. A new pipe section was installed in this spot to complete the repairs.

Describe Area Affected and Cleanup Action Taken.\* Third party environmental contractor conducted soil sampling of the area and third party environmental report is attached to this c-141 "final" 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: Matt Marra	Approval Date: 3/26/2013	Expiration Date:
Title: Senior Director, Environmental	Conditions of Approval:	
E-mail Address: memarra@eprod.com	Attached <input type="checkbox"/>	
Date: 1-15-2013	Phone: (713) 381-6684	

\* Attach Additional Sheets If Necessary

nJK 13085 40999



Animas Environmental Services, LLC

www.animasenvironmental.com

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

Durango, Colorado  
970-403-3084

December 28, 2012

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

**RE: Confirmation Sampling Report  
3B-30 Hydrotest September 2012 Pipeline Release  
SW¼ NW¼, Section 13, T29N, R11W  
San Juan County, New Mexico**

RCVD MAR 18 '13  
OIL CONS. DIV.  
DIST. 3

Dear Mr. Dailey:

On September 25, 2012, Animas Environmental Services, LLC (AES) completed confirmation soil sampling associated with a release of fluids from the Enterprise Field Services, LLC (Enterprise) 3B-30 pipeline. The release, which was located beneath County Road 4935, Bloomfield, San Juan County, New Mexico, resulted from a pipeline leak discovered during hydrotest activities.

---

## 1.0 Site Information

### 1.1 Location

Location - SW¼ NW¼, Section 13, T29N, R11W, San Juan County, New Mexico

Latitude/Longitude - N36.72667 and W107.94852, respectively

Surface Owner – Private

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map

### 1.2 NMOCD Ranking

In accordance with the New Mexico Oil Conservation Division (NMOCD) *Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993), the release location was assigned a ranking score to establish release action levels. The ranking score was obtained in part by reviewing available records of nearby oil/gas wells using the NMOCD online database. A C-144 form dated April 2005 for the Garrett Federal Com 2 No. 1 well, located less than 450 feet west of the release area, reported the depth to groundwater as less than 50 feet below ground surface (bgs). The New Mexico Office of the State Engineer (NMOSE) database was reviewed for nearby water wells, and no registered water wells were reported to be located within 1,000 feet of the location.

Google Earth and the New Mexico Tech Petroleum Recovery Research Center online mapping tool (<http://ford.nmt.edu/react/project.html>) were accessed to aid in the identification of downgradient surface water. Once on site, AES personnel further assessed the ranking using topographical interpretation, Global Positioning System (GPS) elevation readings, and visual reconnaissance. The nearest ephemeral washes are located approximately 120 feet west and 430 feet east of the release location. Based on this information, the release location was assessed a ranking score of 40.

### 1.3 Assessment

On September 25, 2012, Enterprise contractors completed an excavation on either side of County Road 4935 in order to expose the leaking pipeline and prepare the area for a new pipeline to be installed and the old pipeline to be abandoned in place. The west side excavation dimensions measured approximately 84 ft<sup>2</sup> by 5 feet deep, and the east side excavation measured approximately 48 ft<sup>2</sup> by 5 feet deep.

Since soils beneath the road could not be excavated, Enterprise directed AES to collect confirmation soil samples from each wall adjacent to the road. AES collected two composite soil samples for field screening and laboratory analysis. Soil sample locations are included on Figure 3.

---

## 2.0 Soil Sampling

Prior to backfilling the excavation, AES personnel collected two 5-point composite soil samples (SC-1 and SC-2) from the excavation on each side of County Road 4935 for field screening and laboratory analysis. SC-1 was collected from the western excavation, and SC-2 was collected from the eastern excavation. The samples were collected from around the pipeline and below the road, at approximately 1 to 5 feet bgs.

### 2.1 Field Screening

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

### 2.2 Laboratory Analyses

Soil samples SC-1 and SC-2 were collected for laboratory analysis and 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. Note that because the release consisted of hydrotest fluids,

additional laboratory analyses for metals were requested. Soil samples were laboratory analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per U.S. Environmental Protection Agency (USEPA) Method 8021B;
- Total petroleum hydrocarbons (TPH) for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015B;
- Resource Conservation and Recovery Act (RCRA) 8 Metals per USEPA Method 6010B Total Metals;
- Chloride per USEPA Method 300.0;
- Mercury per USEPA Method 7471;
- Barium and chromium per USEPA Method 6010B Toxicity Characteristic Leaching Procedure (TCLP).

### 2.3 Field Screening and Laboratory Analytical Results

Soil field screening results showed VOC field screening readings were 3.4 ppm in SC-1 and 0.4 ppm in SC-2.

Soil analytical results from SC-1 and SC-2 showed that benzene, total BTEX, and TPH concentrations were below laboratory detection limits. Chloride concentrations were reported below laboratory detection limit in SC-1 and were reported at 8.4 mg/kg in SC-2. Barium concentrations were reported at 110 mg/kg in SC-1 and 140 mg/kg in SC-2, and chromium concentrations were 6.3 mg/kg in SC-1 and 7.5 mg/kg in SC-2. Lead concentrations were also above laboratory detection limits in SC-1 (2.9 mg/kg) and SC-2 (4.5 mg/kg). Mercury, arsenic, cadmium, selenium, and silver concentrations were each below laboratory detection limits in SC-1 and SC-2.

Since laboratory analytical results for barium and chromium were above the Resource Conservation and Recovery Act (RCRA) allowable limits for total metals in SC-1 and SC-2, further analysis was required by Toxicity Characteristic Leaching Procedure (TCLP). Barium and chromium concentrations were below laboratory detection limits in both samples per TCLP. Laboratory analytical results are included in Table 1 and on Figure 3. Laboratory analytical reports are attached.

---

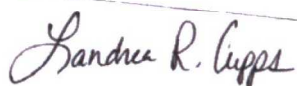
## 3.0 Conclusions and Recommendations

NMOCD action levels for releases are specified in NMOCD's *Guidelines for Leaks, Spills, and Releases* (August 1993), and the release was assigned a ranking score of 40. Based on field observations, field screening values, and laboratory analytical results for benzene, total BTEX, and TPH, soils have not been impacted above NMOCD action levels within the release area. Additionally, because the release consisted of hydrotest fluids,


which typically have significant contact time within the pipeline, additional laboratory analyses for RCRA 8 metals and chlorides were completed. Laboratory analytical results showed low concentrations of chlorides in both soil samples; however, there are no established action levels for chlorides. Laboratory analytical results for RCRA 8 metals were below RCRA allowable limits; therefore, no further work is recommended.

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

Sincerely,



Landrea Cupps  
Environmental Scientist



Elizabeth McNally, P.E.

Attachments:

- Table 1. Soil Field Screening and Laboratory Analytical Results
- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map
- Figure 3. Sample Locations and Results, September 2012
- Laboratory Analytical Reports (Hall 1209B94)

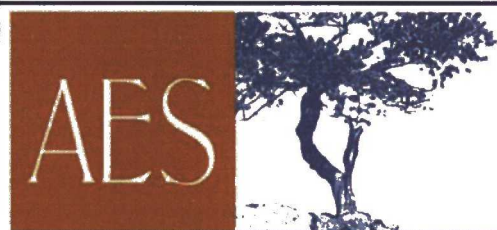
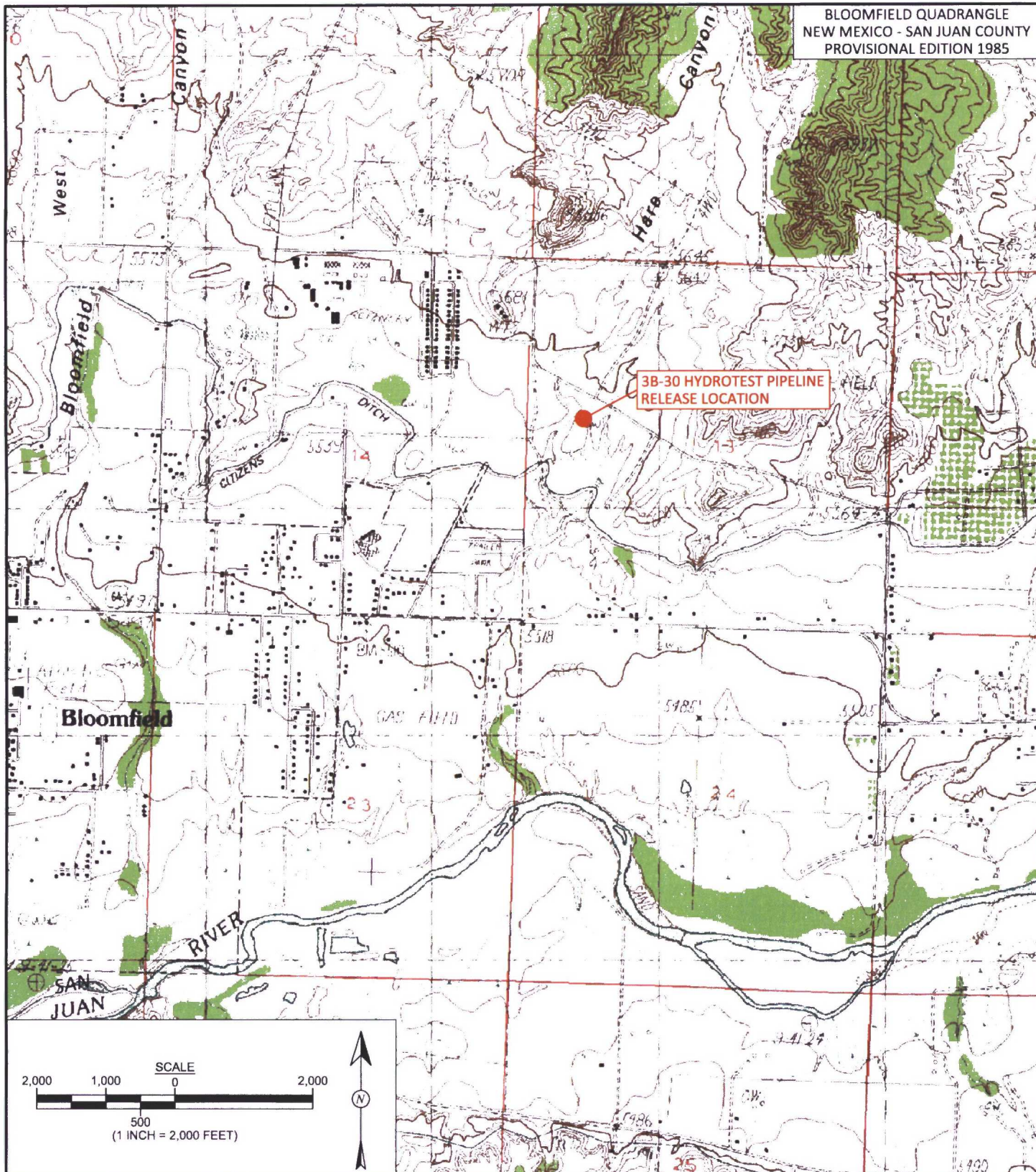
TABLE 1  
Soil Field Screening and Laboratory Analytical Results  
Enterprise Field Service, LLC 3B-30 September 2012 Hydrotest Pipeline Release  
San Juan County, New Mexico

<i>Sample ID</i>	<i>Sample Date</i>	<i>VOCs via OVM (ppm)</i>	<i>Benzene (mg/kg)</i>	<i>BTEX (mg/kg)</i>	<i>TPH-GRO (mg/kg)</i>	<i>TPH-DRO (mg/kg)</i>	<i>Chloride (mg/kg)</i>
<i>Analytical Method</i>			<b>8021B</b>		<b>8015B</b>		<b>300.0</b>
<i>NMOCD Action Level</i>		<b>100</b>	<b>10</b>	<b>50</b>	<b>100*</b>		<b>NE</b>
SC-1	25-Sep-12	3.4	<0.047	<0.236	<4.7	<9.9	<7.5
SC-2	25-Sep-12	0.4	<0.049	<0.246	<4.9	<10	8.4

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

NE - Not Established

<i>Sample ID</i>	<i>Sample Date</i>	<i>Arsenic (mg/kg)</i>	<i>Barium (mg/kg)</i>	<i>Cadmium (mg/kg)</i>	<i>Chromium (mg/kg)</i>	<i>Lead (mg/kg)</i>	<i>Mercury (mg/kg)</i>	<i>Selenium (mg/kg)</i>	<i>Silver (mg/kg)</i>
<i>Analytical Method</i>		<b>6010B</b>	<b>6010B/TCLP</b>	<b>6010B</b>	<b>6010B/TCLP</b>	<b>6010B</b>	<b>7471</b>	<b>6010B</b>	<b>6010B</b>
<i>RCRA Standard per TCLP (mg/L)</i>		<b>5.0</b>	<b>100</b>	<b>1.0</b>	<b>5.0</b>	<b>5.0</b>	<b>0.2</b>	<b>1.0</b>	<b>5.0</b>
SC-1	25-Sep-12	<12	<b>110</b> / <b>&lt;100</b>	<0.50	<b>6.3</b> / <b>&lt;5.0</b>	2.9	<0.033	<12	<1.2
SC-2	25-Sep-12	<12	<b>140</b> / <b>&lt;100</b>	<0.50	<b>7.5</b> / <b>&lt;5.0</b>	4.5	<0.033	<12	<1.2



Animas Environmental Services, LLC

<b>DRAWN BY:</b> C. Lameman	<b>DATE DRAWN:</b> September 27, 2012
<b>REVISIONS BY:</b> C. Lameman	<b>DATE REVISED:</b> December 31, 2012
<b>CHECKED BY:</b> T. Ross	<b>DATE CHECKED:</b> December 31, 2012
<b>APPROVED BY:</b> E. McNally	<b>DATE APPROVED:</b> December 31, 2012

**FIGURE 1**

**TOPOGRAPHIC SITE LOCATION MAP**  
ENTERPRISE FIELD SERVICES, LLC  
3B-30 HYDROTEST SEPTEMBER 2012  
PIPELINE RELEASE  
SAN JUAN COUNTY, NEW MEXICO  
SW¼ NW¼, SECTION 13, T29N, R11W  
N36.72667, W107.94852

**LEGEND**

— P — BURIED PIPELINE

— X — FENCE

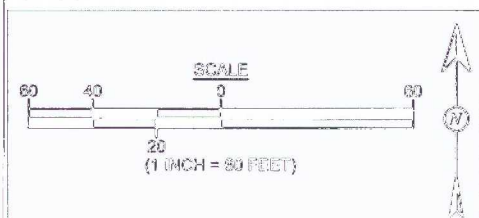
TRANSWESTERN  
SAN JUAN STATION

DRY ROAD

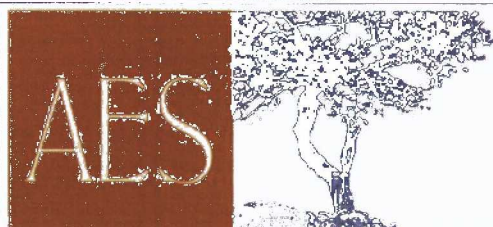
COUNTY ROAD 2935

DRY ROAD

3B-30 HYDROTEST PIPELINE  
RELEASE EXCAVATED AREAS



AERIAL SOURCE: © 2012 PICTOMETRY INTERNATIONAL CORP. ONLINE, AERIAL TAKEN: MARCH 12, 2011

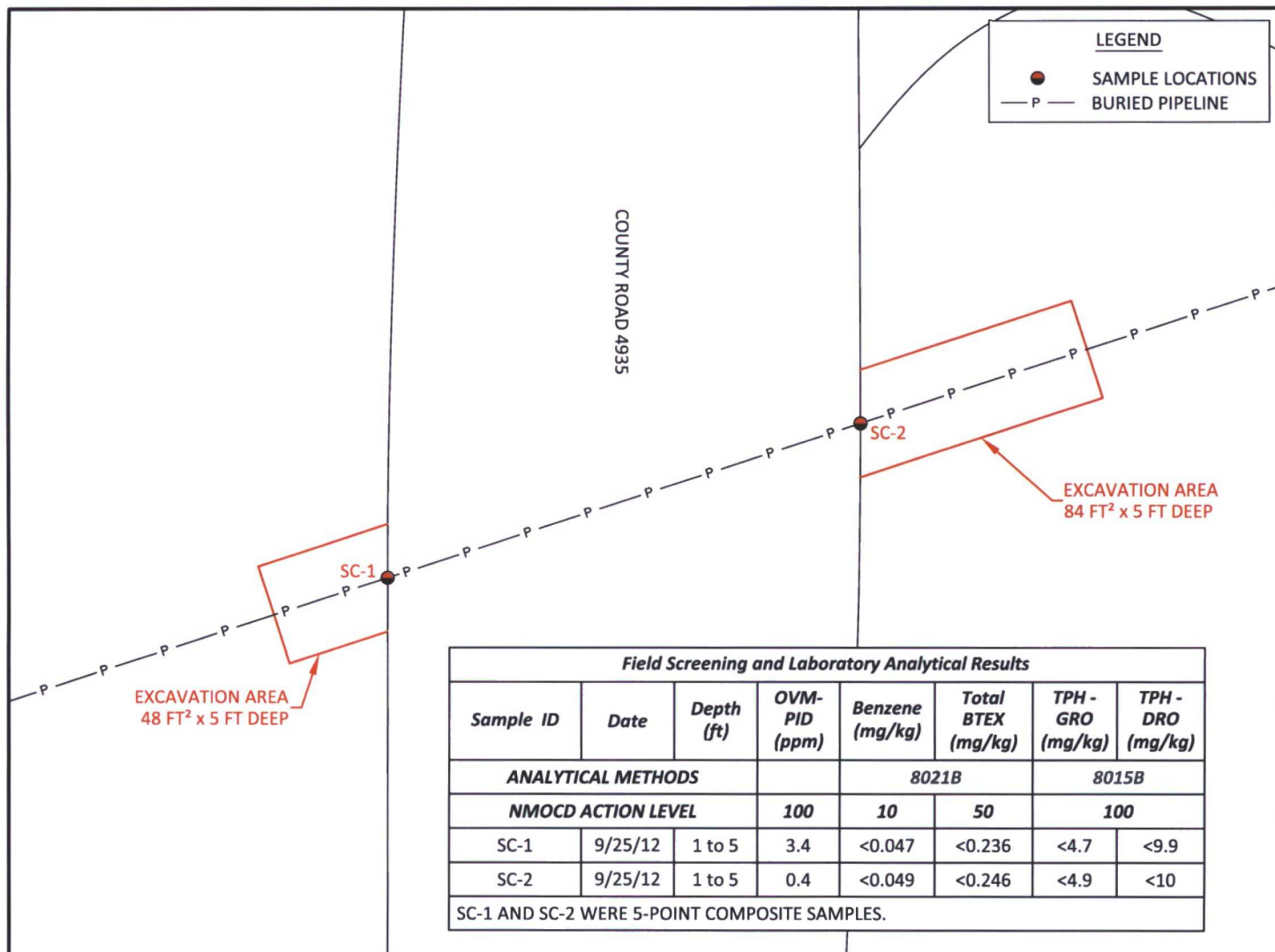


Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: September 27, 2012
REVISIONS BY: C. Lameman	DATE REVISED: December 31, 2012
CHECKED BY: T. Ross	DATE CHECKED: December 31, 2012
APPROVED BY: E. McNally	DATE APPROVED: December 31, 2012

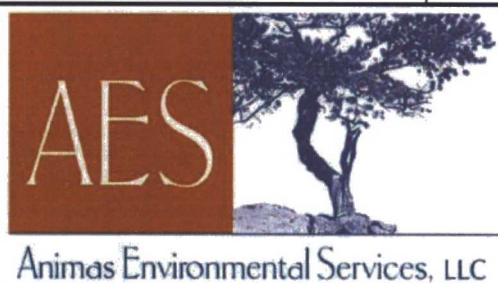
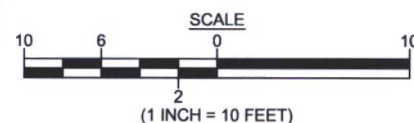
## FIGURE 2

AERIAL SITE MAP  
ENTERPRISE FIELD SERVICES, LLC  
3B-30 HYDROTEST SEPTEMBER 2012  
PIPELINE RELEASE  
SAN JUAN COUNTY, NEW MEXICO  
SW¼ NW¼, SECTION 13, T29N, R11W  
N36.72667, W107.94852



Laboratory Analytical Results											
Sample ID	Date	Depth (ft)	Chlorides (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)
ANALYTICAL METHODS			300.0	6010B	6010B/TCLP	6010B	6010B/TCLP	6010B	7471	6010B	6010B
RCRA STANDARD PER TCLP (mg/L)			NE	5.0	100	1.0	5.0	5.0	0.2	1.0	5.0
SC-1	9/25/12	1 to 5	<7.5	<12	110/<100	<0.50	6.3/<5.0	2.9	<0.033	<12	<1.2
SC-2	9/25/12	1 to 5	8.4	<12	140/<100	<0.50	7.5/<5.0	4.5	<0.033	<12	<1.2

SC-1 AND SC-2 WERE 5-POINT COMPOSITE SAMPLES. NMOCD RELEASE ACTION LEVELS ARE NOT ESTABLISHED FOR REPRESENTED CONTAMINANTS OF CONCERN. NE - NOT ESTABLISHED



<b>DRAWN BY:</b> C. Lameman	<b>DATE DRAWN:</b> September 27, 2012
<b>REVISIONS BY:</b> C. Lameman	<b>DATE REVISED:</b> December 31, 2012
<b>CHECKED BY:</b> T. Ross	<b>DATE CHECKED:</b> December 31, 2012
<b>APPROVED BY:</b> E. McNally	<b>DATE APPROVED:</b> December 31, 2012

## FIGURE 3

**SAMPLE LOCATIONS AND RESULTS  
SEPTEMBER 2012**

ENTERPRISE FIELD SERVICES, LLC  
3B-30 HYDROTEST SEPTEMBER 2012  
PIPELINE RELEASE  
SAN JUAN COUNTY, NEW MEXICO  
SW<sup>3</sup>/<sub>4</sub> NW<sup>1</sup>/<sub>4</sub>, SECTION 13, T29N, R11W  
N36.72667, W107.94852



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

October 30, 2012

Tami Ross  
Animas Environmental Services  
624 East Comanche  
Farmington, NM 87401  
TEL: (505) 793-2072  
FAX

RE: 3B-30 Hydrotest

OrderNo.: 1209B94

Dear Tami Ross:

Hall Environmental Analysis Laboratory received 2 sample(s) on 9/26/2012 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued October 10, 2012.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://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.

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 1209B94

Date Reported: 10/30/2012

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-1

Project: 3B-30 Hydrotest

Collection Date: 9/25/2012 12:15:00 PM

Lab ID: 1209B94-001

Matrix: SOIL

Received Date: 9/26/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/1/2012 8:57:53 AM
Surr: DNOP	110	77.6-140		%REC	1	10/1/2012 8:57:53 AM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/30/2012 4:26:00 PM
Surr: BFB	106	84-116		%REC	1	9/30/2012 4:26:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	9/30/2012 4:26:00 PM
Toluene	ND	0.047		mg/Kg	1	9/30/2012 4:26:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	9/30/2012 4:26:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	9/30/2012 4:26:00 PM
Surr: 4-Bromofluorobenzene	93.6	80-120		%REC	1	9/30/2012 4:26:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: SRM
Chloride	ND	7.5		mg/Kg	5	9/28/2012 12:25:41 AM
<b>EPA METHOD 7471: MERCURY</b>						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/9/2012 9:44:56 AM
<b>EPA METHOD 6010B: SOIL METALS</b>						Analyst: JLF
Arsenic	ND	12		mg/Kg	5	10/3/2012 12:15:29 PM
Barium	110	0.50		mg/Kg	5	10/3/2012 12:15:29 PM
Cadmium	ND	0.50		mg/Kg	5	10/3/2012 12:15:29 PM
Chromium	6.3	1.5		mg/Kg	5	10/3/2012 12:15:29 PM
Lead	2.9	1.2		mg/Kg	5	10/3/2012 12:15:29 PM
Selenium	ND	12		mg/Kg	5	10/3/2012 12:15:29 PM
Silver	ND	1.2		mg/Kg	5	10/3/2012 12:15:29 PM
<b>EPA METHOD 6010B: TCLP METALS</b>						Analyst: JLF
Barium	ND	100		mg/L	1	10/23/2012 4:08:50 PM
Chromium	ND	5.0		mg/L	1	10/23/2012 4:08:50 PM

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- 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

## Analytical Report

Lab Order 1209B94

Date Reported: 10/30/2012

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-2

Project: 3B-30 Hydrotest

Collection Date: 9/25/2012 12:18:00 PM

Lab ID: 1209B94-002

Matrix: SOIL

Received Date: 9/26/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/28/2012 2:41:28 PM
Surr: DNOP	114	77.6-140		%REC	1	9/28/2012 2:41:28 PM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/30/2012 4:54:49 PM
Surr: BFB	95.8	84-116		%REC	1	9/30/2012 4:54:49 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	9/30/2012 4:54:49 PM
Toluene	ND	0.049		mg/Kg	1	9/30/2012 4:54:49 PM
Ethylbenzene	ND	0.049		mg/Kg	1	9/30/2012 4:54:49 PM
Xylenes, Total	ND	0.099		mg/Kg	1	9/30/2012 4:54:49 PM
Surr: 4-Bromofluorobenzene	92.2	80-120		%REC	1	9/30/2012 4:54:49 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: SRM
Chloride	8.4	1.5		mg/Kg	1	9/28/2012 12:50:31 AM
<b>EPA METHOD 7471: MERCURY</b>						Analyst: IDC
Mercury	ND	0.033		mg/kg	1	10/9/2012 9:46:42 AM
<b>EPA METHOD 6010B: SOIL METALS</b>						Analyst: JLF
Arsenic	ND	12		mg/Kg	5	10/3/2012 12:22:12 PM
Barium	140	0.50		mg/Kg	5	10/3/2012 12:22:12 PM
Cadmium	ND	0.50		mg/Kg	5	10/3/2012 12:22:12 PM
Chromium	7.5	1.5		mg/Kg	5	10/3/2012 12:22:12 PM
Lead	4.5	1.2		mg/Kg	5	10/3/2012 12:22:12 PM
Selenium	ND	12		mg/Kg	5	10/3/2012 12:22:12 PM
Silver	ND	1.2		mg/Kg	5	10/3/2012 12:22:12 PM
<b>EPA METHOD 6010B: TCLP METALS</b>						Analyst: JLF
Barium	ND	100		mg/L	1	10/23/2012 4:11:44 PM
Chromium	ND	5.0		mg/L	1	10/23/2012 4:11:44 PM

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- 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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1209B94

30-Oct-12

Client: Animas Environmental Services

Project: 3B-30 Hydrotest

Sample ID	MB-3979		SampType:	MBLK		TestCode:	EPA Method 300.0: Anions				
Client ID:	PBS		Batch ID:	3979		RunNo:	5835				
Prep Date:	9/27/2012		Analysis Date:	9/28/2012		SeqNo:	167813		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	ND	1.5									

Sample ID	LCS-3979		SampType: LCS		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSS		Batch ID: 3979		RunNo: 5835					
Prep Date:	9/27/2012		Analysis Date: 9/28/2012		SeqNo: 167814		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.2	90	110			

Sample ID	1209A79-023AMS		SampType: MS		TestCode: EPA Method 300.0: Anions					
Client ID:	BatchQC		Batch ID: 3979		RunNo: 5835					
Prep Date:	9/27/2012		Analysis Date: 9/28/2012		SeqNo: 167820		Units: mg/Kg-dry			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	16	8.0	15.96	0	100	64.4	117			

Sample ID	1209A79-023AMSD		SampType:	MSD		TestCode:	EPA Method 300.0: Anions				
Client ID:	BatchQC		Batch ID:	3979		RunNo:	5835				
Prep Date:	9/27/2012		Analysis Date:	9/28/2012		SeqNo:	167821		Units: mg/Kg-dry		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	16	8.0	15.96	0	101	64.4	117	0.556	20		

Sample ID	1209A79-030AMS		SampType: MS		TestCode: EPA Method 300.0: Anions					
Client ID:	BatchQC		Batch ID: 3979		RunNo: 5835					
Prep Date:	9/27/2012		Analysis Date: 9/28/2012		SeqNo: 167849		Units: mg/Kg-dry			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	17	8.0	16.01	2.372	90.8	64.4	117			

Sample ID	1209A79-030AMSD		SampType: MSD		TestCode: EPA Method 300.0: Anions					
Client ID:	BatchQC		Batch ID: 3979		RunNo: 5835					
Prep Date:	9/27/2012		Analysis Date: 9/28/2012		SeqNo: 167850		Units: mg/Kg-dry			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	16	8.0	16.01	2.372	87.8	64.4	117	2.82	20	

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- 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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1209B94

30-Oct-12

Client: Animas Environmental Services

Project: 3B-30 Hydrotest

Sample ID	MB-3974	SampType:	MBLK	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	PBS	Batch ID:	3974	RunNo:	5816					
Prep Date:	9/27/2012	Analysis Date:	9/28/2012	SeqNo:	167266	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	10		10.00		101	77.6	140			

Sample ID	LCS-3974	SampType:	LCS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	3974	RunNo:	5816					
Prep Date:	9/27/2012	Analysis Date:	9/28/2012	SeqNo:	167486	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	83.3	52.6	130			
Surr: DNOP	4.9		5.000		97.1	77.6	140			

Sample ID	1209B93-001AMS	SampType:	MS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	BatchQC	Batch ID:	3974	RunNo:	5816					
Prep Date:	9/27/2012	Analysis Date:	9/28/2012	SeqNo:	167922	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	940	9.8	49.16	958.7	-40.2	57.2	146			S
Surr: DNOP	4.8		4.916		98.6	77.6	140			

Sample ID	1209B93-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	BatchQC	Batch ID:	3974	RunNo:	5816					
Prep Date:	9/27/2012	Analysis Date:	9/28/2012	SeqNo:	168423	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	950	9.6	48.22	958.7	-22.3	57.2	146	0.958	24.5	S
Surr: DNOP	4.9		4.822		101	77.6	140	0	0	

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- 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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1209B94

30-Oct-12

Client: Animas Environmental Services

Project: 3B-30 Hydrotest

Sample ID	MB-3969		SampType:	MBLK		TestCode:	EPA Method 8015B: Gasoline Range				
Client ID:	PBS		Batch ID:	3969		RunNo:	5856				
Prep Date:	9/27/2012		Analysis Date:	9/29/2012		SeqNo:	168356		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	980		1000		98.4	84	116				

Sample ID	LCS-3969		SampType: LCS		TestCode: EPA Method 8015B: Gasoline Range					
Client ID:	LCSS		Batch ID: 3969		RunNo: 5856					
Prep Date:	9/27/2012		Analysis Date: 9/29/2012		SeqNo: 168357		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	102	74	117			
Surr: BFB	1000		1000		103	84	116			

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- 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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1209B94

30-Oct-12

Client: Animas Environmental Services

Project: 3B-30 Hydrotest

Sample ID	MB-3969	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID: 3969			RunNo: 5856					
Prep Date:	9/27/2012	Analysis Date: 9/29/2012			SeqNo: 168386		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	0.99		1.000		98.6	80	120			

Sample ID	LCS-3969		SampType: LCS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS		Batch ID: 3969		RunNo: 5856					
Prep Date:	9/27/2012		Analysis Date: 9/29/2012		SeqNo: 168387		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.050	1.000	0	94.1	76.3	117			
Toluene	0.96	0.050	1.000	0	95.9	80	120			
Ethylbenzene	0.99	0.050	1.000	0	98.7	77	116			
Xylenes, Total	3.0	0.10	3.000	0	99.5	76.7	117			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	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

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1209B94

30-Oct-12

Client: Animas Environmental Services

Project: 3B-30 Hydrotest

Sample ID	MB-4086	SampType:	MBLK	TestCode:	EPA Method 7471: Mercury					
Client ID:	PBS	Batch ID:	4086	RunNo:	6082					
Prep Date:	10/8/2012	Analysis Date:	10/9/2012	SeqNo:	175476	Units:	mg/kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.033								

Sample ID	LCS-4086	SampType:	LCS	TestCode:	EPA Method 7471: Mercury					
Client ID:	LCSS	Batch ID:	4086	RunNo:	6082					
Prep Date:	10/8/2012	Analysis Date:	10/9/2012	SeqNo:	175477	Units:	mg/kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.17	0.033	0.1667	0	104	80	120			

Sample ID	1210279-008CMS	SampType:	MS	TestCode:	EPA Method 7471: Mercury					
Client ID:	BatchQC	Batch ID:	4086	RunNo:	6082					
Prep Date:	10/8/2012	Analysis Date:	10/9/2012	SeqNo:	175510	Units:	mg/kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.15	0.033	0.1665	0.01287	84.9	75	125			

Sample ID	1210279-008CMSD	SampType:	MSD	TestCode:	EPA Method 7471: Mercury					
Client ID:	BatchQC	Batch ID:	4086	RunNo:	6082					
Prep Date:	10/8/2012	Analysis Date:	10/9/2012	SeqNo:	175511	Units:	mg/kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.15	0.033	0.1686	0.01287	82.8	75	125	1.08	20	

### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- 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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1209B94

30-Oct-12

Client: Animas Environmental Services

Project: 3B-30 Hydrotest

Sample ID	MB-4358		SampType: MBLK		TestCode: EPA Method 6010B: TCLP Metals					
Client ID:	PBW		Batch ID: 4358		RunNo: 6437					
Prep Date:	10/17/2012		Analysis Date: 10/23/2012		SeqNo: 185079		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	100								
Chromium	ND	5.0								

Sample ID	LCS-4358		SampType: LCS		TestCode: EPA Method 6010B: TCLP Metals					
Client ID:	LCSW		Batch ID: 4358		RunNo: 6437					
Prep Date:	10/17/2012		Analysis Date: 10/23/2012		SeqNo: 185080		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	100	0.5000	0	98.1	80	120			
Chromium	ND	5.0	0.5000	0	100	80	120			

Sample ID	1210551-003AMS		SampType: MS		TestCode: EPA Method 6010B: TCLP Metals					
Client ID:	BatchQC		Batch ID: 4358		RunNo: 6437					
Prep Date:	10/17/2012		Analysis Date: 10/23/2012		SeqNo: 185086		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	ND	5.0	0.5000	0	96.7	75	125			

Sample ID	1210551-003AMSD		SampType:	MSD		TestCode:	EPA Method 6010B: TCLP Metals				
Client ID:	BatchQC		Batch ID:	4358		RunNo:	6437				
Prep Date:	10/17/2012		Analysis Date:	10/23/2012		SeqNo:	185087		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chromium	ND	5.0	0.5000	0	95.5	75	125	0	20		

## Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2

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



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87106  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name: Animas Environmental Work Order Number: 1209B94

Received by/date: *AS* 09/26/12

Logged By: Ashley Gallegos 9/26/2012 10:00:00 AM

Completed By: Ashley Gallegos 9/26/2012 5:47:12 PM

Reviewed By: *[Signature]* 09/27/12

### Chain of Custody

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

### Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA ☐  
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐  
6. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐  
7. Sample(s) in proper container(s)? Yes ☒ No ☐  
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐  
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐  
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐  
11. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒  
12. Were any sample containers received broken? Yes ☐ No ☒  
13. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐ # of preserved bottles checked for pH:  
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐ ( $<2$  or  $>12$  unless noted)  
15. Is it clear what analyses were requested? Yes ☒ No ☐ Adjusted?  
16. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐ Checked by:

### Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
By Whom: \_\_\_\_\_ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person  
Regarding: \_\_\_\_\_  
Client Instructions: \_\_\_\_\_

18. Additional remarks:

### 19. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

Client: Animas Environmental

Mailing Address: 624 E Comanche  
Farmington NM 87401

Phone #: 505 542 2281

email or Fax#: 505 324 2022

**QA/QC Package:**

☒ Standard ☐ Level 4 (Full Validation)

## Accreditation

☐ NELAP      ☐ Other \_\_\_\_\_

☐ EDD (Type) \_\_\_\_\_

Turn-Around Time:

☒ Standard ☐ Rush

Project Name: 3B-30 Hydrotest

Project #:

Project Manager: Tami Ross

Sampler: TR

On Ice ☒ Yes ☐ No

Sample Temperature: 140

HEAL No

1219894

001

-002

Date:	Time:	Relinquished by:
12/12	1638	Danni Ross

Received by:	Date	Time
Christine Weller	9/25/12	1638

Date:	Time:	Relinquished by:
7/25/12	1757	Christine J. Scales

Received by: [Signature] Date 02/26/12 Time 1000

Remarks: BILL TO ENTERPRISE  
PRODUCTS COMPANY



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

[www.hallenvironmental.com](http://www.hallenvironmental.com)

4901 Hawkins NE - Albuquerque, NM 87109

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

## Analysis Request

8BTEX + <del>MTBE</del> <del>1,2,4-D</del> (9994)
8BTEX + MTBE + TPH (Gas only)
1TPH Method 8015B (Gas/Diesel)
1TPH (Method 418.1)
EEDB (Method 504.1)
33310 (PNA or PAH)
RCRA 8 Metals
Anions ( <del>F</del> Cl, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> )
8081 Pesticides / 8082 PCB's
3260B (VOA)
3270 (Semi-VOA)
Air Bubbles (✓ or N)

Air Bubbles (V or N)

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

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

State of New Mexico  
Energy Minerals and Natural Resources

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

Form C-141  
Revised August 8, 2011

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

**Release Notification and Corrective Action**

**OPERATOR**

☐ Initial Report

☒ Final Report

Name of Company	Enterprise Field Services, LLC	Contact	Aaron Dailey
Address	614 Reilly Avenue, Farmington NM 87401	Telephone No.	(505)599-2286
Facility Name	Dewey #2 Meter Run Location	Facility Type	Natural Gas Meter Run Location
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
J	19	30N	13W					San Juan

Latitude \_N36.7964\_ Longitude \_W108.2469\_ (Decimal Degrees) \_\_\_\_

**NATURE OF RELEASE**

Type of Release	Natural gas vapor and liquid	Volume of Release	169 MCF gas loss; 2 barrels condensate/water mix (estimated)	Volume Recovered	Estimated 5 yards of stained soil removed from location
Source of Release	Natural gas well location meter run	Date and Hour of Occurrence	12.11.2012 @ 14:30 hours (estimated)	Date and Hour of Discovery	12/12/2012 @ 08:00 hours
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?			
By Whom?		Date and Hour			
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

RCVD JAN 22 '13

OIL CONS. DIV.

DIST. 3

If a Watercourse was Impacted, Describe Fully.\*

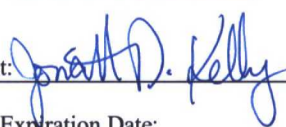
Describe Cause of Problem and Remedial Action Taken.\*

Area measurement technician was notified by producer of gas leaking from an orifice flange and stained soil around meter run. Technician notified supervisor and went to the location where he found a gasket in the orifice flange damaged. He performed lock out, tag out (LOTO) and replaced the gaskets.

Describe Area Affected and Cleanup Action Taken.\*

Affected area of stained soil was estimated at approximately 15 feet X 15feet X 1-6 inches deep. Cleanup using dig and haul techniques occurred on 12/13/2012. Third party environmental contractor provided cleanup guidance and confirmation sampling of the impacted soil area that was removed and backfilled with clean material. A third party corrective action report summarizing these activities is attached to this c-141 "final" 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:	<u>OIL CONSERVATION DIVISION</u>		
Printed Name: Matt Marra	Approved by Environmental Specialist: 		
Title: Senior Director, Environmental & Technical Services	Approval Date: 3/26/2013	Expiration Date:	
E-mail Address: memarra@eprod.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 1-15-2013 Phone: (713)381-6684			

\* Attach Additional Sheets If Necessary

nJK 1308548391

# **RELEASE REPORT**

**Dewey #2**

**SAN JUAN COUNTY,  
NEW MEXICO**

**January 3, 2013**

**SMA #5122104**

Submitted To:

New Mexico Environment Department  
Oil Conservation Division – Dist. 3  
1000 Rio Brazos Rd  
Aztec, NM 87410

Submitted By:

Souder, Miller & Associates  
2101 San Juan Boulevard  
Farmington, NM 87401  
(505)325-7535

RCVD MAR 18 2013  
OIL CONS. DIV.  
DIST. 3



Depth to Groundwater	NMOCD Numeric Rank for this Site	Source for Ranking	Notes
< 50 BGS = 20		USGS Topo Maps; Google Earth	Release is approximately 105 feet in elevation above an unnamed wash
50' to 99' = 10			
>100' = 0	0		
Ranking Criteria for Horizontal Distance to Nearest Surface Water	NMOCD Numeric Rank for this Site	Source for Ranking	Notes
< 200' = 20		USGS Topo Maps; Google Earth	Release is located approximately 3,100 east of an unnamed wash
200'-1000' = 10			
>1000'	0		
Ranking Criteria for Horizontal Distance to a Water Well or Water Source	NMOCD Numeric Rank for this Site	Source for Ranking	Notes
<1000' from a water source? <200' for a private domestic water source? YES OR NO to BOTH. YES = 20, NO = 0	0	NM State Engineer Water Well Database	No well in Sections 10, 32 or 34
	0		
<b>Total Site Ranking</b>	<b>0</b>		
<b>Soil Remediation Standards</b>	<b>0 to 9</b>	<b>10 to 19</b>	<b>&gt;19</b>
<b>Benzene</b>	10 PPM	10 PPM	10 PPM
<b>BTEX</b>	50 PPM	50 PPM	50 PPM
<b>TPH</b>	5000 PPM	1000 PPM	100 PPM



RELEASE INFORMATION				
Name	Dewey #2			
Release Location	Latitude =36.79671	Longitude = -108.24695		
	NE 1/4 SW 1/4 Section 19	Township 30N	Range 13 W	
	San Juan County			
Date Reported	December 13, 2012			
Reported by	Aaron Dailey			
Land Owner	BLM			
Regulatory Authority	NMOCD			
Reported to	NMOCD			
Enterprise Representative	Gary Turner			
Source of Release	Rupture due to frozen meter tube.			
Release Contents	Condensate/Natural Gas Liquids			
Release Volume	Approximately 100 gallons			
Nearest Waterway	Approximately 3,100' to the east of an unnamed wash			
SMA Response Date(s)	December 13, 2012			
Sub-contractor(s)	Southwest Field Services			
Soil Disposal Facility	Industrial Ecosystems Inc.: JFJ Landfarm			
Total Cubic Yards Removed	Approximately 2 Cubic Yards			
<b>RELEASE RESPONSE SUMMARY</b>				
<p><b>Response Activities:</b> On December 13, 2012, Souder, Miller &amp; Associates (SMA) responded to a release at the Dewey #2 well site. The release was caused from a frozen meter tube that had ruptured. Southwest Field Services was contracted to excavate the impacted soil with hand shovels and wheel barrows. The surface stained area measured approximately 6'X 17'. Surface stained soils were excavated to depths between 4" and 6". A composite soil sample was collected at random locations in the excavation at approximately 6" depths and field screened using a calibrated photo ionization detection (PID). One composite sample was collected from random locations in the excavation for laboratory analysis. The excavation was backfilled with clean material sourced from another area of the site the following day. Approximately 2 cubic yards of hydrocarbon contaminated soil was transported by Southwest Field Services to Industrial Ecosystems Inc. JFJ Landfarm near Bloomfield, New Mexico for proper disposal. Bills of Lading are included as an attachment.</p>				
<p><b>Laboratory Results:</b> All soil samples were analyzed per United States Environmental Protection Agency (USEPA) Methods 8021 Benzene, Toluene, Ethyl-Benzene, and Xylenes (BTEX) and 8015 Gasoline Range Organics/Diesel Range Organics. The laboratory sample location is illustrated in Figure 2 and in the attached table. The laboratory analytical report is included as an attachment. Laboratory analysis indicated that the composite soil sample collected is below regulatory standards for contaminants of concern.</p>				
<p><b>Recommendations:</b> Enterprise Field Services recommends that no further action is needed at this site.</p>				



**FIELD SCREENING RESULTS SUMMARY**

Date	Time	Field Screening Reference	Sample Depth (Feet BGS)	PID Results (ppm)	Petro Flag Results	Lab Sample Collected Y/N
12/13/2012	14:50	SC-1	0.5	0.0		Y

**LABORATORY ANALYTICAL SUMMARY**

Date	Time	Sample ID	Sample Depth (Feet BGS)	Method 8015 GRO (ppm)	Method 8015 DRO (ppm)	Method 8021 Benzene (ppm)	Method 8021 BTEX (ppm)
12/13/2012	14:50	SC-1 @6"	0.5	<4.9	23.0	<0.049	<0.097



SCALE

0' 1000' 2000' 4000'

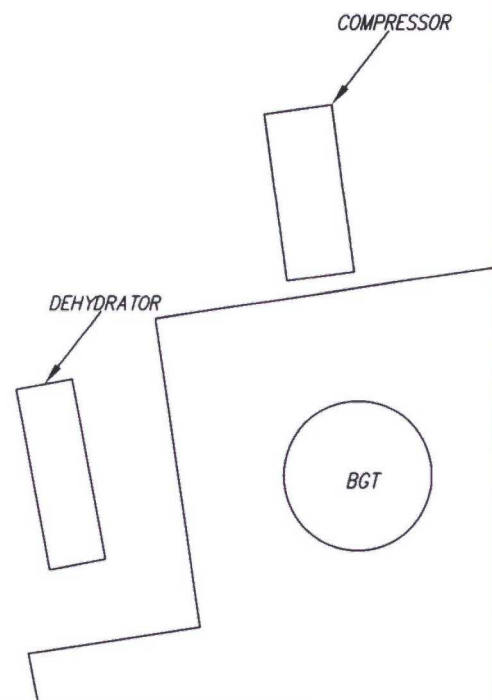
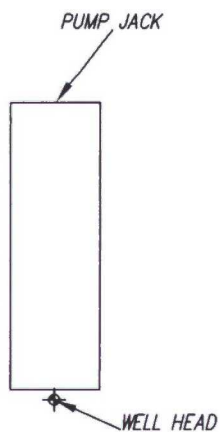
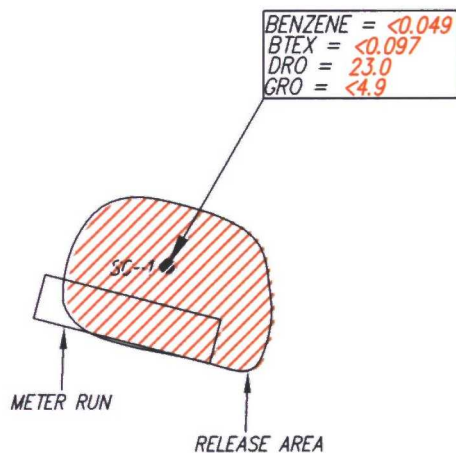


2101 SAN JUAN BLVD  
FARMINGTON, NM 87401

FAX (505) 327-1496  
PH. (505) 325-5667

APPROVED: RSA	DATE: 12/19/2012
DRAWN BY: TLONG	DATE: 12/10/2012
REVISIONS BY: SJM	DATE: 1/3/13
PROJECT # 5122104	FIGURE: 1

VICINITY MAP  
DEWEY #2 WELL SITE  
NE 1/4 SW 1/4 SECTION 19 T30N R13W  
SAN JUAN COUNTY, NEW MEXICO



LEGEND:

SC-1  
● - SOIL SAMPLE LOCATION (5-POINT COMPOSITE)  
(LABORATORY RESULTS REPORTED IN PARTS  
PER MILLION (PPM))

▨ - RELEASE AREA

SCALE

0' 5.0' 10.0' 20.0'



2101 SAN JUAN BLVD  
FARMINGTON, NM 87401

FAX (505) 327-1496  
PH. (505) 326-6667

APPROVED: RSA

DRAWN BY: TLONG

REVISIONS BY: SJM

PROJECT # 5122104

DATE: 12/22/2012

DATE: 12/22/2012

DATE: 1/3/2013

FIGURE: 2

SITE MAP AND SOIL CONTAMINANT  
CONCENTRATION MAP  
DEWEY #2 WELL SITE  
NE 1/4 SW 1/4 SECTION 19 T30N R13W  
SAN JUAN COUNTY, NEW MEXICO

**Site Photographs**  
**Enterprise Products Dewey #2 Release Site**



**Photo 1: Extent of the Dewey #2 release from the meter run, facing south.**



**Photo 2: Extent of the Dewey #2 release from the meter run, facing northeast.**

**Site Photographs**  
**Enterprise Products Dewey #2 Release Site**

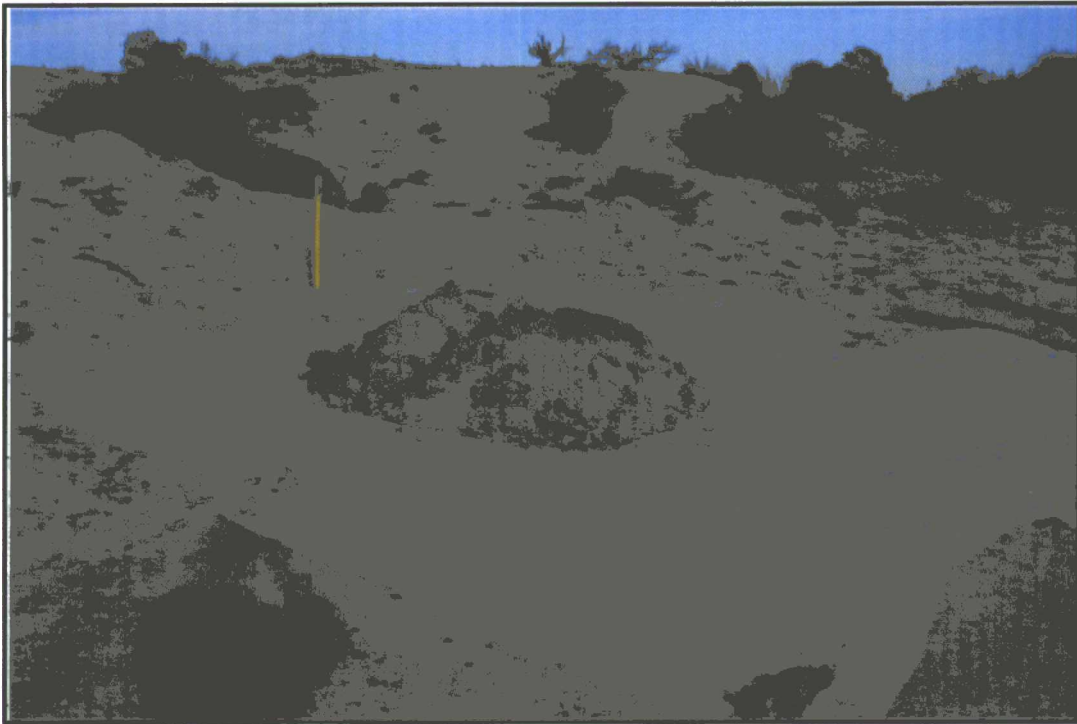


Photo 3: View of the excavated material at the Dewey #2 well site.

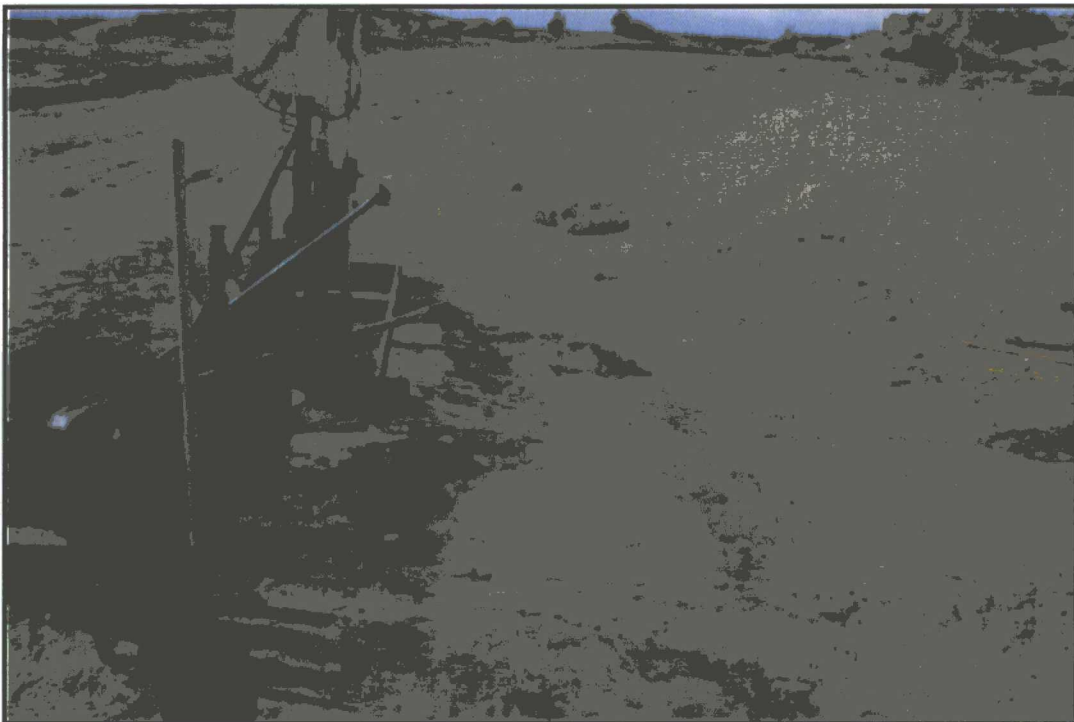


Photo 4: View of the location of borrowed backfill material from the slope on the right side of the photo.



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

December 26, 2012

Steve Moskal

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

RE: Enterprise Dewey #2

OrderNo.: 1212663

Dear Steve Moskal:

Hall Environmental Analysis Laboratory received 1 sample(s) on 12/14/2012 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](http://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,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Analytical Report**

Lab Order 1212663

Date Reported: 12/26/2012

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Souder, Miller and Associates**Client Sample ID:** SC-1 @ 6"**Project:** Enterprise Dewey #2**Collection Date:** 12/13/2012 2:50:00 PM**Lab ID:** 1212663-001**Matrix:** SOIL**Received Date:** 12/14/2012 10:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: <b>MMD</b>
Diesel Range Organics (DRO)	23	9.7		mg/Kg	1	12/20/2012 5:34:24 PM
Surr: DNOP	89.4	72.4-120		%REC	1	12/20/2012 5:34:24 PM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/19/2012 4:09:42 PM
Surr: BFB	92.0	84-116		%REC	1	12/19/2012 4:09:42 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.049		mg/Kg	1	12/19/2012 4:09:42 PM
Toluene	ND	0.049		mg/Kg	1	12/19/2012 4:09:42 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/19/2012 4:09:42 PM
Xylenes, Total	ND	0.097		mg/Kg	1	12/19/2012 4:09:42 PM
Surr: 4-Bromofluorobenzene	102	80-120		%REC	1	12/19/2012 4:09:42 PM

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- 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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1212663

26-Dec-12

Client: Souder, Miller and Associates

Project: Enterprise Dewey #2

Sample ID	LCS-5298		SampType:	LCS		TestCode:	EPA Method 8015B: Diesel Range Organics			
Client ID:	LCSS		Batch ID:	5298		RunNo:	7594			
Prep Date:	12/17/2012		Analysis Date:	12/19/2012		SeqNo:	220944		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	83.0	47.4	122			
Surr: DNOP	4.0		5.000		80.4	72.4	120			

Sample ID	MB-5298		SampType:	MBLK		TestCode:	EPA Method 8015B: Diesel Range Organics			
Client ID:	PBS		Batch ID:	5298		RunNo:	7594			
Prep Date:	12/17/2012		Analysis Date:	12/19/2012		SeqNo:	220945		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	9.3		10.00		93.2	72.4	120			

Sample ID	MB-5349		SampType:	MBLK		TestCode:	EPA Method 8015B: Diesel Range Organics			
Client ID:	PBS		Batch ID:	5349		RunNo:	7616			
Prep Date:	12/19/2012		Analysis Date:	12/20/2012		SeqNo:	222041		Units: %REC	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.4		10.00		84.0	72.4	120			

Sample ID	LCS-5349		SampType:	LCS		TestCode:	EPA Method 8015B: Diesel Range Organics			
Client ID:	LCSS		Batch ID:	5349		RunNo:	7616			
Prep Date:	12/19/2012		Analysis Date:	12/20/2012		SeqNo:	222042		Units: %REC	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.8		5.000		75.4	72.4	120			

### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- 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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1212663

26-Dec-12

Client: Souder, Miller and Associates

Project: Enterprise Dewey #2

Sample ID	MB-5281	SampType:	MBLK	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	PBS	Batch ID:	5281	RunNo:	7586					
Prep Date:	12/14/2012	Analysis Date:	12/18/2012	SeqNo:	220201	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	930		1000		92.6	84	116			

Sample ID	LCS-5281	SampType:	LCS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	LCSS	Batch ID:	5281	RunNo:	7586					
Prep Date:	12/14/2012	Analysis Date:	12/18/2012	SeqNo:	220202	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	89.7	74	117			
Surr: BFB	960		1000		96.0	84	116			

Sample ID	MB-5330	SampType:	MBLK	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	PBS	Batch ID:	5330	RunNo:	7599					
Prep Date:	12/18/2012	Analysis Date:	12/20/2012	SeqNo:	221175	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	930		1000		92.7	84	116			

Sample ID	LCS-5330	SampType:	LCS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	LCSS	Batch ID:	5330	RunNo:	7599					
Prep Date:	12/18/2012	Analysis Date:	12/20/2012	SeqNo:	221176	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	950		1000		94.8	84	116			

### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- 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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1212663

26-Dec-12

Client: Souder, Miller and Associates

Project: Enterprise Dewey #2

Sample ID	<b>MB-5281</b>		SampType:	<b>MBLK</b>		TestCode:	<b>EPA Method 8021B: Volatiles</b>			
Client ID:	<b>PBS</b>		Batch ID:	<b>5281</b>		RunNo:	<b>7586</b>			
Prep Date:	<b>12/14/2012</b>		Analysis Date:	<b>12/18/2012</b>		SeqNo:	<b>220237</b>		Units: <b>mg/Kg</b>	
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	<b>LCS-5281</b>		SampType:	<b>LCS</b>		TestCode:	<b>EPA Method 8021B: Volatiles</b>			
Client ID:	<b>LCSS</b>		Batch ID:	<b>5281</b>		RunNo:	<b>7586</b>			
Prep Date:	<b>12/14/2012</b>		Analysis Date:	<b>12/18/2012</b>		SeqNo:	<b>220238</b>		Units: <b>mg/Kg</b>	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	102	76.3	117			
Toluene	1.0	0.050	1.000	0	101	80	120			
Ethylbenzene	1.0	0.050	1.000	0	102	77	116			
Xylenes, Total	3.0	0.10	3.000	0	101	76.7	117			
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120			

Sample ID	<b>MB-5330</b>		SampType:	<b>MBLK</b>		TestCode:	<b>EPA Method 8021B: Volatiles</b>			
Client ID:	<b>PBS</b>		Batch ID:	<b>5330</b>		RunNo:	<b>7599</b>			
Prep Date:	<b>12/18/2012</b>		Analysis Date:	<b>12/20/2012</b>		SeqNo:	<b>221204</b>		Units: <b>%REC</b>	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		105	80	120			

Sample ID	<b>LCS-5330</b>		SampType:	<b>LCS</b>		TestCode:	<b>EPA Method 8021B: Volatiles</b>			
Client ID:	<b>LCSS</b>		Batch ID:	<b>5330</b>		RunNo:	<b>7599</b>			
Prep Date:	<b>12/18/2012</b>		Analysis Date:	<b>12/20/2012</b>		SeqNo:	<b>221205</b>		Units: <b>%REC</b>	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		107	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

- 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



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

## Sample Log-In Check List

Client Name: SMA-FARM Work Order Number: 1212663  
Received by/date: AT MG 12/14/12  
Logged By: Anne Thorne 12/14/2012 10:20:00 AM *Anne Thorne*  
Completed By: Anne Thorne 12/14/2012 *Anne Thorne*  
Reviewed By: *[Signature]* 12/14/12

### Chain of Custody

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

### Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA ☐  
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐  
6. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐  
7. Sample(s) in proper container(s)? Yes ☒ No ☐  
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐  
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐  
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐  
11. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒  
12. Were any sample containers received broken? Yes ☐ No ☒  
13. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐  
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐  
15. Is it clear what analyses were requested? Yes ☒ No ☐  
16. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved  
bottles checked  
for pH:

( $<2$  or  $>12$  unless noted)

Adjusted? \_\_\_\_\_

Checked by: \_\_\_\_\_

### Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
By Whom: \_\_\_\_\_ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person  
Regarding: \_\_\_\_\_  
Client Instructions: \_\_\_\_\_

18. Additional remarks:

### 19. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

# Chain-of-Custody Record

Client:

SMA/Enterprise

Mailing Address:

2101 Soq. Tucson Blvd

Flagstaff, NM 87101

Phone #: 505 325 7535

email or Fax#: steven.mast@ssiwebmail.com

QA/QC Package:

☒ Standard

☐ Level 4 (Full Validation)

Accreditation

☐ NELAP

☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard

☐ Rush

Project Name:

Enterprise

Drury #2

Project #:

5122104

Project Manager:

Steve Mastal

Sampler:

On 10/12/03

Sample Temperature:

10

Date Time Matrix Sample Request ID

Container Type and #

Preservative Type

HEAL NO

21/3/03 1450 901 SC-1 @ 6"

402.5oz

None

201

X

X

BTEX + MTBE + TMB's (8021)  
BTEX + MTBE + TPH (Gas only)  
TPH Method 8015B (Gas/Diesel)  
TPH (Method 418.1)  
EDB (Method 504.1)  
8310 (PNA or PAH)  
RCRA 8 Metals  
Anions (F, Cl, NO<sub>3</sub>, NO<sub>2</sub>, PO<sub>4</sub>, SO<sub>4</sub>)  
8081 Pesticides / 8082 PCB's  
8260B (VOA)  
8270 (Semi-VOA)

Air Bubbles (Y or N)

Date: Time: Relinquished by:

Received by:

Date Time

Remarks:

21/3/03 1600

Steve Mastal

12/3/03 1705

BTEX only (Goal)  
Invoice Enterprise Product

11/1/03

Steve Mastal

12/14/03 10:30

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This service is provided at the discretion of Hall Environmental.



**HALL ENVIRONMENTAL  
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request



Invoice Number: 21750  
Invoice Date: Dec 17, 2012  
Page: 1

Industrial Ecosystems Inc.  
P.O. Box 1202  
Flora Vista, NM 87415  
PH: (505) 632-1782 Fax: (505) 632-1876  
TAX I.D. #94-3200034

PLEASE REMIT PAYMENT TO:  
Industrial Ecosystems, Inc.  
PO Box 1202  
Flora Vista, NM 87415

Sold To: ENTERPRISE PRODUCTS  
614 RIELLY AVE.  
FARMINGTON, NM 87401

Location: AARON DAILY  
DEWEY #2

Contact	Payment Terms	Due Date	Customer PO
AARON DAILY	Net 30 Days	1/16/13	

Quantity	Description	Unit Price	Extension
	DATE OF SERVICE: 12/14/12		
	IEI WO#22087 ✓		
	MATERIAL TRANSPORTED BY SOUTHWEST FIELD SERVICE, 133		
	DISPOSED OF SOIL		
1.00	CHLORIDE TEST	15.00	15.00 ✓
2.00	DISPOSAL PER YARD	18.50	37.00 ✓

FOR BILLING INQUIRIES PLEASE CALL  
(505) 632-1782

ACCOUNTS ARE DUE NET 30 DAYS. PURCHASER AGREES TO PAY  
FINANCE CHARGES OF 1.5% PER MONTH (ANNUAL PERCENTAGE RATE OF  
18%) OR A MINIMUM CHARGE OF .50 PER MONTH. ACCOUNTS THAT HAVE  
BEEN PLACED FOR COLLECTION WILL BE CHARGED A \$100.00  
COLLECTION FEE IN ADDITION TO REASONABLE ATTORNEY FEES AND  
COLLECTION CHARGES.

Subtotal	52.00 ✓
Sales Tax	3.28
Total Invoice Amount	55.28
<b>TOTAL</b>	<b>55.28</b>



# Industrial Ecosystems Inc.

#49 C.R. 3150 • Aztec, NM 87410

Phone: 505-632-1782 • Fax: 505-632-1876

22087

Unit: 133

Employee: SW Field

Contact: Caron Dwyer

Date: 12-14-12

Customer: Enterprise

Location Name: Dewey #2

☐ Jicarilla Apache Land ☐ Southern Ute Land

PO#: \_\_\_\_\_

Billing Code: \_\_\_\_\_

LABOR		HRS/UNITS		RATE		TOTAL
Equipment Operator	41000.1		Hours/Day	\$	Per hour/day	\$
General Laborer	41000.1		Hours	\$	Per hour	\$
Project Manager	41000.1		Hours	\$	Per hour	\$
Per Diem	41000.1		Hours	\$	Per day/man	\$
Travel Time	41000.1		Hours	\$	Per hour	\$
PSI	41000.1		Hours	\$	Per hour	\$
Route Survey	41000.1		Hours	\$	Per hour	\$
EQUIPMENT						
4wd Pickup	42000.1		Miles	\$	Per mile	\$
12yd Dump Truck	42000.1		Hours	\$	Per hour	\$
18yd Side Dump	42000.1		Hours	\$	Per hour	\$
Backhoe with Operator	42000.1		Hours	\$	Per hour	\$
Loader with Operator	42000.1		Hours	\$	Per hour	\$
Excavator with Operator	42000.1		Hours	\$	Per hour	\$
Portable Pressure Wash	42000.1		Hours/Day		Per hour/day	\$
Portable Pres. Wash Unit	42000.1		Hours	\$	Per hour	\$
80 Barrel Vacuum Truck	42000.1		Hours	\$	Per hour	\$
King Vac Truck with Crew	42000.1		Hours	\$	Per hour	\$
Mileage	42000.1		Miles	\$	Per mile	\$
SCBA (Breathing Apparatus)	42000.1		Day	\$	Per day	\$
SCBA Refill	42000.1		Each	\$	Per Refill	\$
LEL, O <sub>2</sub> , H <sub>2</sub> S Monitoring	42000.1		Day	\$	Per day	\$
Compressor	42000.1		Hours/Day	\$	Per hour/day	\$
Air Horn	42000.1		Day	\$	Per day	\$
Line Locator	42000.1		Day	\$	Per day	\$
SERVICES						
Chloride Test	45000.2	1	Each	\$ 15.00	Per test	\$ 15.00
Mobile Dewatering	42100.1		Hours/Day	\$	Per hour/day	\$
Mob/Demob	42100.1		Hours	\$	Per hour	\$
Monthly Maintenance	45000.1		Month	\$	Per month	\$
SUPPLIES						
Soap/Degreaser			Gallons	\$	Per gallon	\$
Virgin Soil/Gravel	45500.2		Cubic yard	\$	Per yard	\$
DISPOSAL & MISC.						
Disposal Fee (solids)	44000.2	2	Cubic yard	\$ 18.50	Per yard	\$ 37.00
Disposal Fee (liquids)	44100.2		Per barrel	\$	Per barrel	\$
Facility Use Fee	42000.2		Each	\$	Each	\$

Comments: Soil

Sub Total	52.00
Tax	
Total	

Employee Signature \_\_\_\_\_

Customer Signature \_\_\_\_\_

FOR BILLING INQUIRIES PLEASE CALL (505) 632-1782

AMOUNTS ARE DUE NET 30 DAYS. PURCHASER AGREES TO PAY FINANCE CHARGES OF 1.5% PER MONTH (ANNUAL PERCENTAGE RATE OF 18%) OR A MINIMUM CHARGE OF .50 PER MONTH. ACCOUNTS THAT HAVE BEEN PLACED FOR COLLECTION WILL BE CHARGED A \$100.00 COLLECTION FEE IN ADDITION TO REASONABLE ATTORNEY FEES AND COLLECTION CHARGES.

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

State of New Mexico  
Energy Minerals and Natural Resources

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

Form C-141  
Revised August 8, 2011

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

**Release Notification and Corrective Action**

**OPERATOR**

☒ Initial Update 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	Hubbard LS #2 Lease Compressor Tank	Facility Type	Natural gas compressor location

Surface Owner	Private	Mineral Owner	Private	API No.
---------------	---------	---------------	---------	---------

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	30	32N	11W					San Juan

Latitude\_N36deg57'32" Longitude\_W108deg02'02" (DDMMSS)

**NATURE OF RELEASE**

Type of Release	Natural gas condensate/oil, produced water, historic impacts	Volume of Release	Estimated 6 barrels, historic impacts discovered	Volume Recovered	TBD
Source of Release	Compressor scrubber tank	Date and Hour of Occurrence	12.11.2012 @ overnight (estimated)	Date and Hour of Discovery	12.12.2012 @ 11:15 hours; historic impacts discovered 1.10.2013 @ 12:00 hours
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	RCVD JAN 22 '13		
By Whom?		Date and Hour	OIL CONS. DIV.		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	DIST. 3		

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*

Affected tank was discovered to have been shot with a firearm resulting in a puncture and release of liquids. The hole was discovered approximately 3" from the bottom of the tank. Upon discovery, a temporary lead plug was put into the bullet hole and vacuum truck arrived on site to remove liquids from the tank inside of the unlined containment berm.


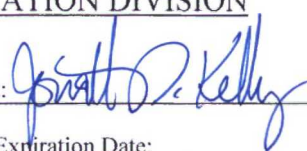
Describe Area Affected and Cleanup Action Taken.\*

Soil has been impacted in the unlined containment berm. Repairs to the tank and remediation to impacted soils are scheduled on December 18, 2012. After area has been remediated to OCD standards, a lined containment berm, compliant with 40 CFR 112 standards, will be installed at this location.

Updated information: During the excavation and cleanup of the recent release, historic hydrocarbon impacts were discovered at this location at approximately 6 feet deep. It is unclear at this time if these impacts are from an historic reserve pit or something else. A records review has been and is still being conducted to determine what could have caused this contaminated soil that was discovered. A Geoprobe is being conducted on Thursday, 1.17.2013 to delineate the impact. Based on the Geoprobe results, a path forward for which company (Conoco Phillips or Enterprise) is obligated to assume responsibility for the cleanup of this historic impact area. If the impacts are determined to be Enterprise responsibility, a final third party corrective action report and c-141 will be submitted to the NM OCD Aztec District office.

Additionally, the new tank, complete with lined secondary containment, will be installed on location in an area away from the impacted area. The excavated area (15' X 15' w X 7' deep) has been fenced tightly and securely with steel fencing material and supported with t-posts.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC 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 NMOC 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, NMOC 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:	 1-16-2013	OIL CONSERVATION DIVISION	
Printed Name: Matt Marra		Approved by Environmental Specialist:	
Title: Senior Director, Environmental		Approval Date: 3/07/2013	Expiration Date:
E-mail Address: memarra@eprod.com		Conditions of Approval:	Attached <input type="checkbox"/>

NJK 130664244

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

State of New Mexico  
Energy Minerals and Natural Resources

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

Form C-141  
Revised August 8, 2011

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

**Release Notification and Corrective Action**

**OPERATOR**

☐ Initial Report ☒ Initial/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 Katy COM #2	Facility Type Natural Gas Gathering Meter Tube	
Surface Owner Private	Mineral Owner Private	API No.

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	26	30N	12W					San Juan

Latitude\_N 36.7796 Longitude\_W 108.0631 (decimal degrees)\_

**NATURE OF RELEASE**

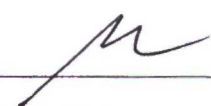
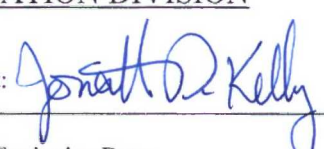
Type of Release Natural Gas vapor	Volume of Release 420 MCF	Volume Recovered None-Gas vapor to atmosphere
Source of Release 4" natural gas meter tube location	Date and Hour of Occurrence 1/10/2013 @ 05:00 hours (estimated)	Date and Hour of Discovery 1/10/2013 @ 14:30 hours
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? <b>RCVD JAN 22 '13</b>	
By Whom?	Date and Hour	<b>OIL CONS. DIV.</b>
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. <b>DIST. 3</b>	

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\* Producer found gas leaking from orifice flange on meter run at Katy COM #2. He blocked in the upstream and downstream valves on meter run and notified the San Juan measurement analysts for a gas loss calculation. Measurement technician responded and replaced blown out gaskets in orifice flange.

Describe Area Affected and Cleanup Action Taken.\* Gas loss was entirely to atmosphere. No liquids were released as a result of this event.

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: 		<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Matthew E. Marra		Approved by Environmental Specialist: 	
Title: Senior Director, Environmental		Approval Date: 3/6/2013	Expiration Date:
E-mail Address: memarra@eprod.com		Conditions of Approval:	Attached <input type="checkbox"/>
Date: 1-16-2013 Phone: 713-381-6684			

\* Attach Additional Sheets If Necessary

n5K13 06641685

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

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 8, 2011

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

**Release Notification and Corrective Action**

**OPERATOR**

☐ Initial Report

☒ Initial/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	Hart Canyon Compressor Station	Facility Type	Natural Gas Compressor Station
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
J	20	31N	10W					San Juan

**NATURE OF RELEASE**

Type of Release	Natural Gas to Atmosphere	Volume of Release	68 MCF	Volume Recovered	None
Source of Release	Compressor Station ESD Vent	Date and Hour of Occurrence	6/13/2013 @ 13:09 hours	Date and Hour of Discovery	6/13/2013 @ 13:09 hours
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?			
By Whom?	Date and Hour				
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. <b>RCVD JUN 20 '13 OIL CONS. DIV.</b>			
If a Watercourse was Impacted, Describe Fully.*		<b>DIST. 3</b>			
Describe Cause of Problem and Remedial Action Taken.* Contractor working for Enterprise inadvertently pressed the Emergency Shut Down button of the compressor station. Notifications were made to appropriate management and station was returned to normal operations.					
Describe Area Affected and Cleanup Action Taken.* Gas loss was to atmosphere; no impact to soil.					
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:	<b>OIL CONSERVATION DIVISION</b>				
Printed Name: Matt Marra	Approved by Environmental Specialist: <i>Jonathan D. Kelly</i>				
Title: Sr. Director, Environmental	Approval Date: <b>6/28/2013</b>		Expiration Date:		
E-mail Address: memarra@eprod.com	Conditions of Approval:				Attached <input type="checkbox"/>
Date: <b>6-17-2013</b>	Phone: (713)381-6684				

\* Attach Additional Sheets If Necessary

**NJK1317925566**

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

State of New Mexico  
Energy Minerals and Natural Resources

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

Form C-141  
Revised August 8, 2011

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

**Release Notification and Corrective Action**

**OPERATOR**

☒ **UPDATED** Initial Report ☐ Final Report

Name of Company: Enterprise Field Services	Contact: Aaron Dailey	
Address: 614 Reilly Ave, Farmington, New Mexico	Telephone No: (505) 599-2286	
Facility Name: Newsom B #8 Well Location	Facility Type: Natural gas well meter tube/run location	
Surface Owner: BLM	Mineral Owner: BLM	API No.

**LOCATION OF RELEASE**

Unit Letter P	Section 6	Township 26N	Range 8W	Feet from the	North/South Line	Feet from the	East/West Line	County San Juan
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Latitude N 36.5120 Longitude W -107.7173

**NATURE OF RELEASE**


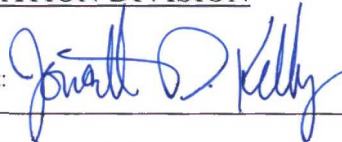
Type of Release: Natural Gas Vapor and Natural Gas Condensate	Volume of Release: 119.7 MCF gas and approximately 1 barrel condensate	Volume Recovered: In situ remedial actions being performed at location
Source of Release: Natural Gas Pipeline Release	Date and Hour of Occurrence: 10.28.2012 @ 12:00 hours (estimated)	Date and Hour of Discovery: 10.29.2012 @ 13:50 hours
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.* No Watercourse Reached.		

RCVD JAN 14 '13  
OIL CONS. DIV.  
DIST. 3

Describe Cause of Problem and Remedial Action Taken.\* Enterprise technician arrived on location and found gas blowing from the upstream flanged connection to the Newsom B#8. Operator shut in the well location and locked out, tagged out energy sources to prevent further gas from blowing. Operator raked the stained soil around location after the flange gasket, the source of the release, was replaced. Significant liquids were discovered to have been released from the flange.

Describe Area Affected and Cleanup Action Taken.\* Area was raked. A delineation of the impacted soil and third party environmental assessment was conducted. Third party corrective action report is attached to this c-141 report form.

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: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Matt Marra	Approved by Environmental Specialist: 	
Title: Senior Director, Environmental	Approval Date: 2/11/2013	Expiration Date:
E-mail Address: memarra@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 1-10-2013 Phone: (713) 381-6684		

\* Attach Additional Sheets If Necessary

NJK 1304235362

**RELEASE &  
REMEDIATION REPORT**

**LATERAL 6B-8 PIPELINE**

**SAN JUAN COUNTY,  
NEWMEXICO**

**December 14, 2012**

**OIL CONS. DIV DIST. 3**

**JAN 31 2013**

**SMA #5122104**

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



**LOCATION INFORMATION****Name** Newsom B#8 Well Site**Location** Latitude 36.5111994 Longitude -107.717338  
SE 1/4 SE 1/4 Section 6 Township 26N Range 8W  
County San Juan**Land Owner** BLM**Regulatory Authority**  
NMOCD

Depth to Groundwater	NMOCD Numeric Rank for this Site	Source for Ranking	Notes
< 50 BGS = 20	20	USGS Topo Maps; Google Earth Elevation Difference from the site and the unnamed wash to the north	Field Verify Site Elevation; Field Verify Wash Elevation with Hand Held GPS
50' to 99' = 10			
>100' = 0			
Ranking Criteria for Horizontal Distance to Nearest Surface Water	NMOCD Numeric Rank for this Site	Source for Ranking	Notes
< 200' = 20	10	USGS Topo Maps; Google Earth (An unnamed wash ~600' to the north); PRCC Mapping Tool	Field verify distance to wash if possible (walking or odometer reading)
200'-1000' = 10			
>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?	0	NM State Engineer Water Well Database	No Wells in Sections 5, 6, 7, 8
<200' for a private domestic water source? YES OR NO to BOTH. YES = 20, NO = 0			
<b>Total Site Ranking</b>	<b>30</b>		
<b>Soil Remediation Standards</b>	<b>0 to 9</b>	<b>10 to 19</b>	<b>&gt;19</b>
<b>Benzene</b>	10 PPM	10 PPM	10 PPM
<b>BTEX</b>	50 PPM	50 PPM	50 PPM
<b>TPH</b>	5000 PPM	1000 PPM	100 PPM



**RELEASE INFORMATION**

**Date Reported** October 31, 2012

**Reported by** Aaron Dailey

**Reported to** NMOCD & BLM; 10/31/12

**Enterprise Representative** Jim Marquis 599-3507

**Source of Release** Leaking valve on meter run

**Release Contents** Gas and Condensate

**Release Volume** 119.7 MCF Gas and +/-1 Barrel Condensate

**Nearest Waterway** Tributary to Blanco Wash  
approximately 600 feet  
north

**SMA Response Date (s)** 10/31/12, 11/2/12,  
11/28/12

**Sub-contractor(s)** None

**Soil Disposal Facility  
(if applicable)** Not Applicable

**RELEASE RESPONSE SUMMARY**

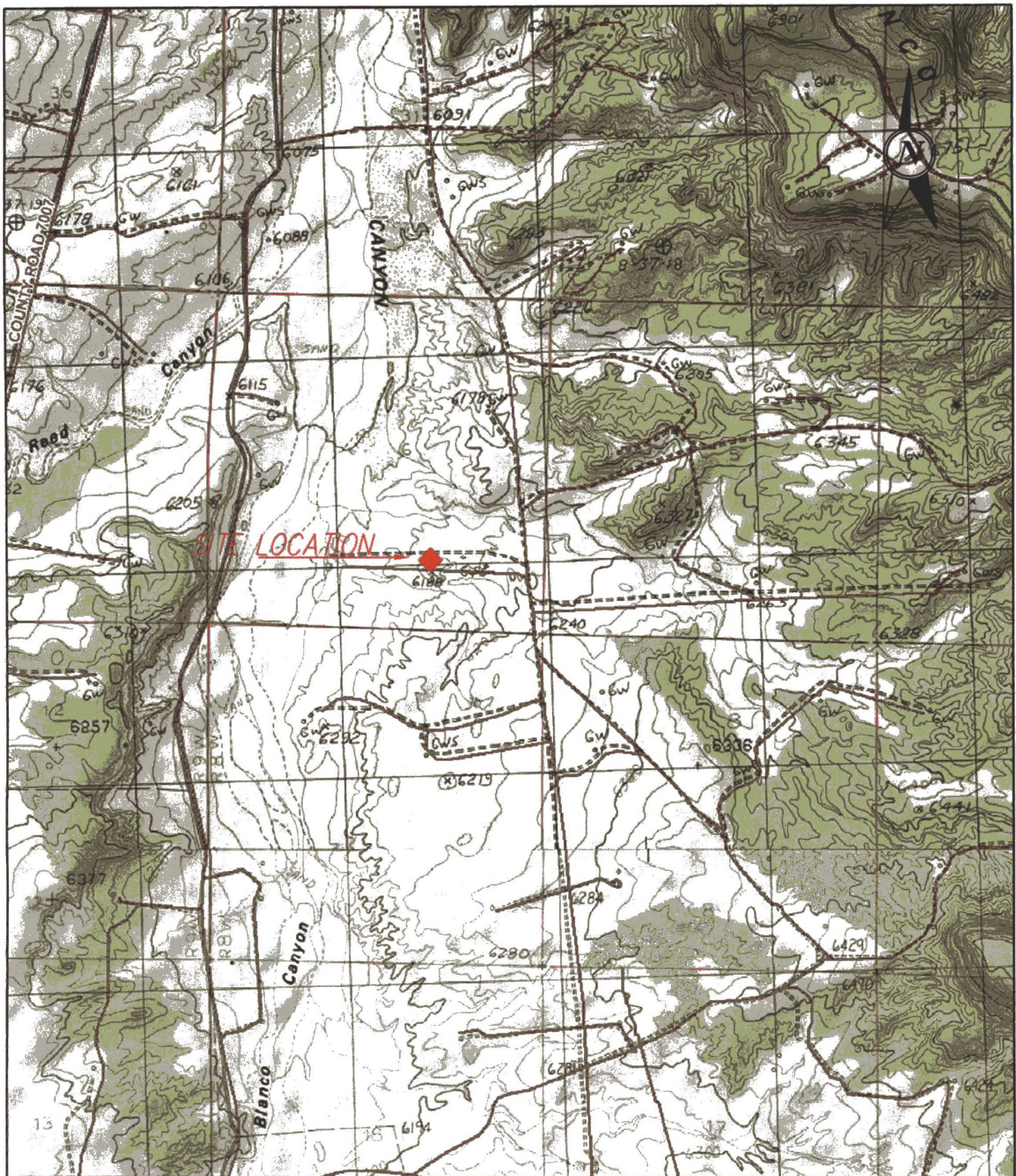
**Site Assessment:** On November 2, 2012, Souder, Miller and Associates (SMA) performed a site assessment at the Newsom B#8 well site. The release was a result of a leaking valve on the upstream side of the meter house. Eight soil borings were installed using a hand auger to delineate the release. Soil samples were field screened at one foot intervals with a calibrated photo ionization detector and five soil samples were collected for laboratory analysis. All soil samples were analyzed per United States Environmental Protection Agency Method 8021 BTEX and 8015 Diesel Range Organics and Gasoline Range Organics. The site assessment revealed that the impacted area was approximately 20 feet long by 10 feet wide by 8 feet deep. Field screening and laboratory results are included in the attached tables and the soil analytical results are attached.

**Site Activities:** On November 28, 2012, SMA installed a soil vapor extraction (SVE) well near the point of release. The SVE well was installed to a total depth of eight feet below ground surface (bgs). The well was constructed with two-inch inside diameter 0.010 inch slotted PVC well screen from total depth to three feet bgs and three feet of two-inch inside diameter blank PVC well casing. The annulus was backfilled with sand and gravel to approximately one foot bgs. Then 3/8" bentonite chips were placed from one foot bgs to ground surface and hydrated to seal the annulus.

A modified solar powered roof vent was installed on the SVE well to actively remediate the subsurface hydrocarbon contamination. Initial hydrocarbon vapor concentrations were approximately 62 parts per million. An additional one cubic foot of contaminated soil was removed from the surface of the site and transported to an offsite soil disposal bin.

**Recommendation:** The SVE remediation system will be monitored on a quarterly basis to assess the effectiveness of the ventilation system. On the second quarter, or six months of operation, samples will be collected through soil borings and field screened for volatile organic compounds. The borings will be sampled and submitted for laboratory analysis. Dependent on laboratory results, the site will be closed or the system will continue operation. Upon continued operation the site will be monitored quarterly and sampled again for laboratory analysis after one year of total operation.





SCALE

0' 1000' 2000' 4000'



2101 SAN JUAN BLVD  
FARMINGTON, NM 87401

FAX (505) 327-1496  
PH. (505) 325-6667

APPROVED: RSA

DRAWN BY: TLONG

REVISIONS BY:

PROJECT # 5122104

DATE: 11/12/2012

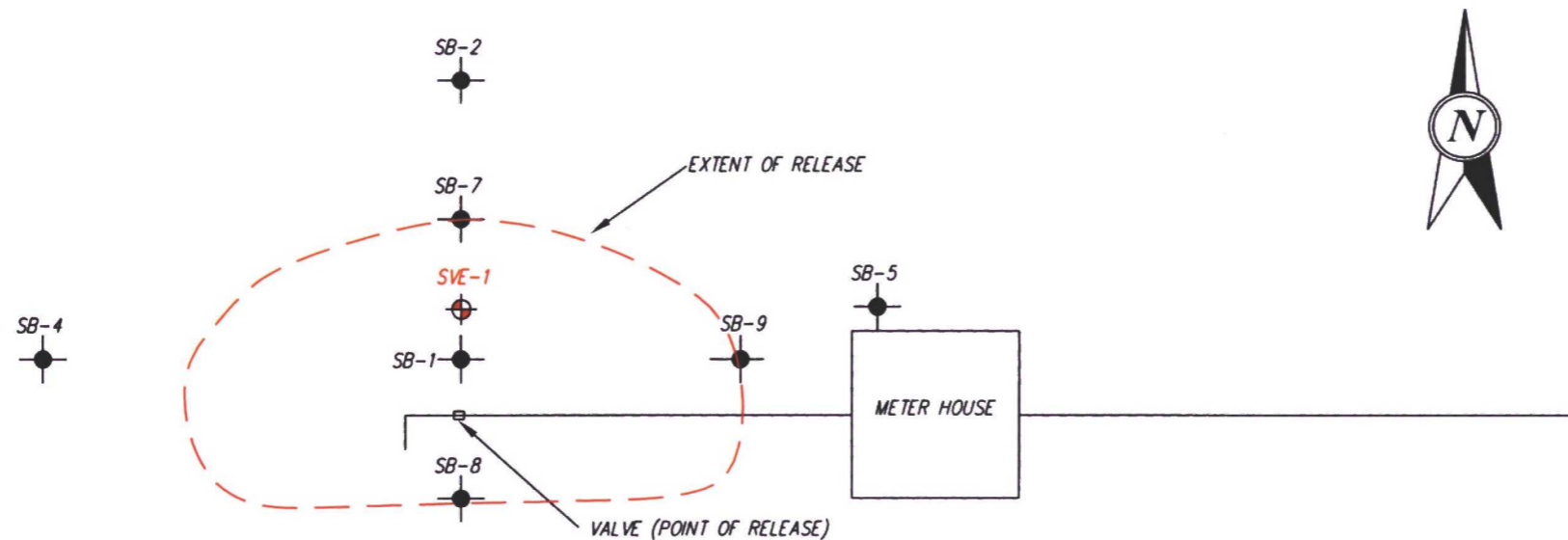
DATE: 11/12/2012

DATE:

FIGURE: 1

VICINITY MAP  
NEWSOM B#8 RELEASE SITE  
SE 1/4 SE 1/4 SECTION 6 T26N R8W  
SAN JUAN COUNTY, NEW MEXICO

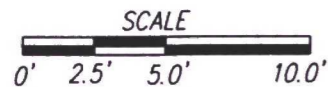
ACCESS ROAD



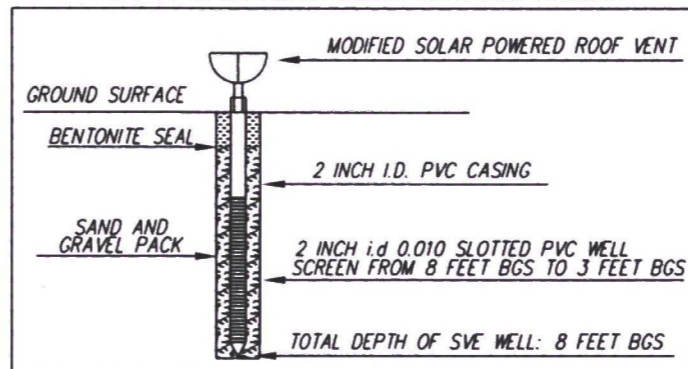
LEGEND:

- SB-3  
● - SOIL BORING LOCATION
- SVE-1  
⊗ - SOIL VAPOR EXTRACTION WELL LOCATION

NOTES: SOIL BORING LOCATION NOTATION (SB-6) WAS OMITTED.



SOIL VAPOR EXTRACTION REMEDIATION SYSTEM DIAGRAM



2101 SAN JUAN BLVD  
FARMINGTON, NM 87401

FAX (505) 327-1496  
PH. (505) 325-5667

APPROVED: RSA

DRAWN BY: TLONG

REVISIONS BY:

PROJECT # 5122104

DATE: 11/29/12

DATE: 11/29/12

DATE:

FIGURE: 2

SITE MAP AND SOIL VAPOR EXTRACTION  
REMEDATION SYSTEM DIAGRAM  
NEWSOM B#8 RELEASE SITE  
SE 1/4 SE 1/4 SECTION 6 T26N R8W  
SAN JUAN COUNTY, NEW MEXICO

FIELD SCREENING RESULTS SUMMARY						
Date	Time	Field Screening Reference	Sample Depth (Feet BGS)	PID Results	Petro Flag Results	Lab Sample Collected Y/N
11/2/2012	14:10	SB-1	Surface*	3419.0	N/A	NO
11/2/2012	14:12	SB-1	1*	1910.0	N/A	NO
11/2/2012	14:14	SB-1	2*	3234.0	N/A	NO
11/2/2012	14:15	SB-1	3*	1457.0	N/A	NO
11/2/2012	15:29	SB-1	4*	949.0	N/A	NO
11/2/2012	15:30	SB-1	5*	1347.0	N/A	NO
11/2/2012	16:00	SB-1	6*	81.7	N/A	NO
11/2/2012	16:01	SB-1	7*	596.0	N/A	NO
11/2/2012	16:02	SB-1	8*	36.7	N/A	Yes
11/2/2012	14:16	SB-2	Surface	6.0	N/A	NO
11/2/2012	14:17	SB-2	1	8.4	N/A	NO
11/2/2012	14:20	SB-2	2	5.6	N/A	NO
11/2/2012	14:21	SB-2	3	10.3	N/A	NO
11/2/2012	14:28	SB-3	Surface	2.1	N/A	NO
11/2/2012	14:29	SB-3	1	1.3	N/A	NO
11/2/2012	14:30	SB-3	2	0.6	N/A	NO
11/2/2012	14:31	SB-3	3	3.9	N/A	NO
11/2/2012	14:35	SB-4	Surface	877.7	N/A	NO
11/2/2012	14:36	SB-4	1	203.7	N/A	NO
11/2/2012	14:37	SB-4	2	88.5	N/A	NO
11/2/2012	14:38	SB-4	3	130.6	N/A	NO
11/2/2012	14:58	SB-4	4	21.9	N/A	Yes
11/2/2012	14:49	SB-5	Surface	4.5	N/A	NO
11/2/2012	14:50	SB-5	1	0.0	N/A	NO
11/2/2012	14:51	SB-5	2	0.1	N/A	NO
11/2/2012	14:52	SB-5	3	0.0	N/A	NO
11/2/2012	15:31	SB-7	Surface	1591.0	N/A	NO
11/2/2012	15:32	SB-7	1	1606.0	N/A	NO
11/2/2012	15:33	SB-7	2	1324.0	N/A	NO
11/2/2012	15:34	SB-7	3	1297.0	N/A	NO
11/2/2012	15:35	SB-7	4	1952.0	N/A	NO
11/2/2012	15:36	SB-7	5	2364.0	N/A	NO
11/2/2012	16:03	SB-7	6	80.4	N/A	NO
11/2/2012	16:04	SB-7	7	118.6	N/A	NO
11/2/2012	16:05	SB-7	8	118.3	N/A	Yes
11/2/2012	15:37	SB-8	Surface	1461.0	N/A	NO
11/2/2012	15:38	SB-8	1	290.9	N/A	NO
11/2/2012	15:39	SB-8	2	104.3	N/A	NO
11/2/2012	15:40	SB-8	3	65.7	N/A	Yes
11/2/2012	15:41	SB-9	Surface	58.5	N/A	NO
11/2/2012	15:41	SB-9	1	0.0	N/A	NO
11/2/2012	15:42	SB-9	2	0.3	N/A	NO
11/2/2012	15:43	SB-9	3	0.3	N/A	Yes

\*POR = Point of Release

**LABORATORY ANALYTICAL SUMMARY**

Date	Time	Sample ID	Sample Depth (Feet BGS)	Method 8015 GRO	Method 8015 DRO	Method 8021 Benzene	Method 8021 BTEX
11/2/2012	15:52	SB-1	8	<4.7	<9.7	<0.047	<0.094
11/2/2012	16:47	SB-4	4	<4.8	<10.0	<0.048	<0.096
11/2/2012	15:57	SB-7	8	<4.8	<10.0	<0.048	<0.096
11/2/2012	15:08	SB-8	3	<4.9	<10.0	<0.049	<0.098
11/2/2012	15:15	SB-9	3	<4.8	<10.0	<0.048	<0.095

## Site Photos



Photo 1: Extent of the release.



Photo 2: Soil investigation borings delineated with lime-green pin flags

Site Photos

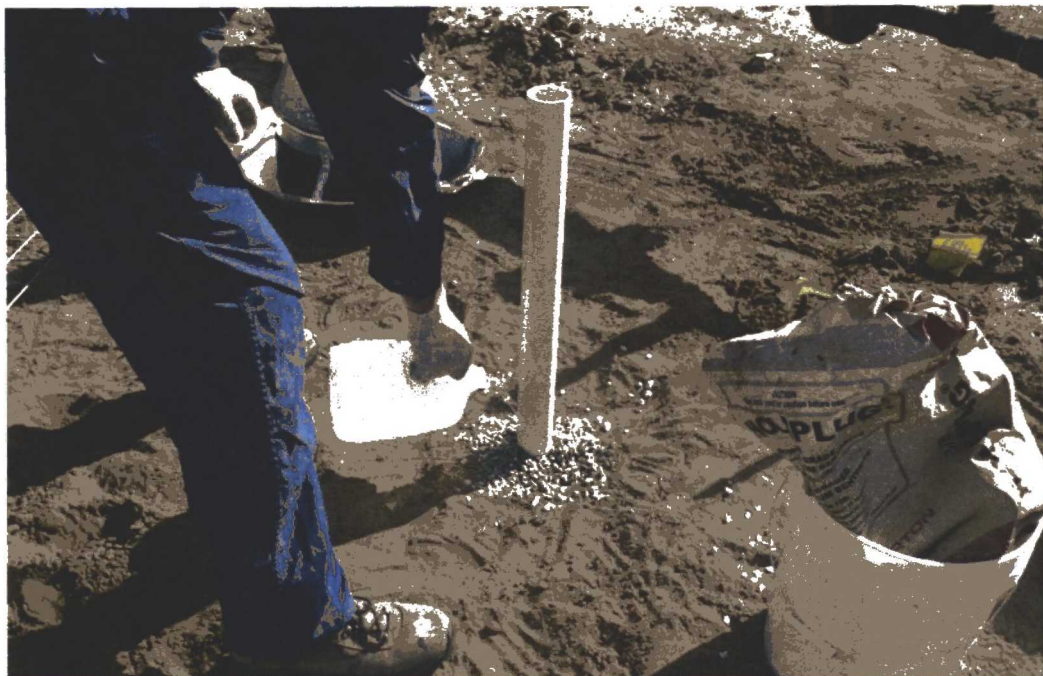


Photo 3: View of the soil vapor extraction well.



Photo 4: View of the soil vapor extraction ventilation system.

## Site Photos

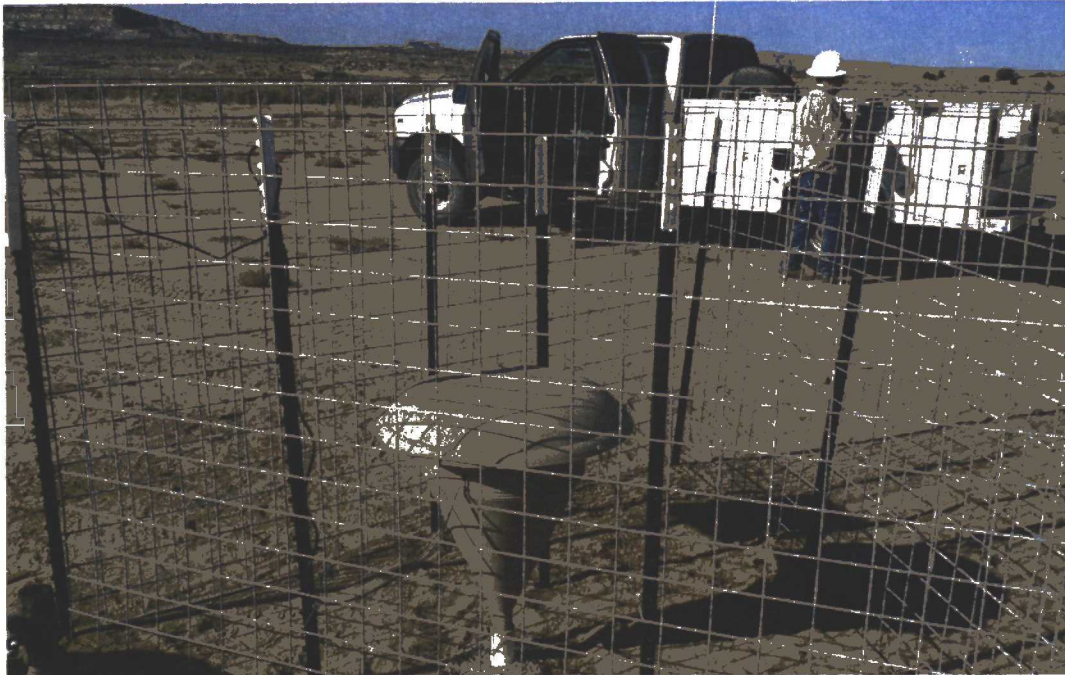


Photo 5: View of the soil vapor extraction ventilation system with security fencing.



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

November 09, 2012

Tom Long  
Souder, Miller and Associates  
2101 San Juan Boulevard  
Farmington, NM 87401  
TEL: (505) 330-0868  
FAX (505) 327-1496

RE: Enterprise Newsome B#8

OrderNo.: 1211287

Dear Tom Long:

Hall Environmental Analysis Laboratory received 5 sample(s) on 11/7/2012 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](http://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  
4901 Hawkins NE  
Albuquerque, NM 87109

**Analytical Report**

Lab Order 1211287

Date Reported: 11/9/2012

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Souder, Miller and Associates**Client Sample ID:** SB-1@8'**Project:** Enterprise Newsome B#8**Collection Date:** 11/2/2012 3:52:00 PM**Lab ID:** 1211287-001**Matrix:** SOIL**Received Date:** 11/7/2012 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: <b>JMP</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/9/2012 6:17:30 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/9/2012 6:17:30 AM
Surr: DNOP	86.1	77.6-140		%REC	1	11/9/2012 6:17:30 AM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/8/2012 4:28:24 PM
Surr: BFB	97.6	84-116		%REC	1	11/8/2012 4:28:24 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Methyl tert-butyl ether (MTBE)	ND	0.094		mg/Kg	1	11/8/2012 4:28:24 PM
Benzene	ND	0.047		mg/Kg	1	11/8/2012 4:28:24 PM
Toluene	ND	0.047		mg/Kg	1	11/8/2012 4:28:24 PM
Ethylbenzene	ND	0.047		mg/Kg	1	11/8/2012 4:28:24 PM
Xylenes, Total	ND	0.094		mg/Kg	1	11/8/2012 4:28:24 PM
Surr: 4-Bromofluorobenzene	102	80-120		%REC	1	11/8/2012 4:28:24 PM

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- 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

**Analytical Report**

Lab Order 1211287

Date Reported: 11/9/2012

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Souder, Miller and Associates**Client Sample ID:** SB-4@4'**Project:** Enterprise Newsome B#8**Collection Date:** 11/2/2012 2:47:00 PM**Lab ID:** 1211287-002**Matrix:** SOIL**Received Date:** 11/7/2012 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: <b>JMP</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	11/9/2012 7:23:04 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/9/2012 7:23:04 AM
Surr: DNOP	99.1	77.6-140		%REC	1	11/9/2012 7:23:04 AM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/8/2012 4:57:16 PM
Surr: BFB	95.6	84-116		%REC	1	11/8/2012 4:57:16 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Methyl tert-butyl ether (MTBE)	ND	0.096		mg/Kg	1	11/8/2012 4:57:16 PM
Benzene	ND	0.048		mg/Kg	1	11/8/2012 4:57:16 PM
Toluene	ND	0.048		mg/Kg	1	11/8/2012 4:57:16 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/8/2012 4:57:16 PM
Xylenes, Total	ND	0.096		mg/Kg	1	11/8/2012 4:57:16 PM
Surr: 4-Bromofluorobenzene	99.2	80-120		%REC	1	11/8/2012 4:57:16 PM

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- 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

**Analytical Report**

Lab Order 1211287

Date Reported: 11/9/2012

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Souder, Miller and Associates**Client Sample ID:** SB-7@8'**Project:** Enterprise Newsome B#8**Collection Date:** 11/2/2012 3:57:00 PM**Lab ID:** 1211287-003**Matrix:** SOIL**Received Date:** 11/7/2012 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: <b>JMP</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	11/9/2012 7:45:01 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/9/2012 7:45:01 AM
Surr: DNOP	93.8	77.6-140		%REC	1	11/9/2012 7:45:01 AM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/8/2012 10:13:24 PM
Surr: BFB	97.3	84-116		%REC	1	11/8/2012 10:13:24 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Methyl tert-butyl ether (MTBE)	ND	0.096		mg/Kg	1	11/8/2012 10:13:24 PM
Benzene	ND	0.048		mg/Kg	1	11/8/2012 10:13:24 PM
Toluene	ND	0.048		mg/Kg	1	11/8/2012 10:13:24 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/8/2012 10:13:24 PM
Xylenes, Total	ND	0.096		mg/Kg	1	11/8/2012 10:13:24 PM
Surr: 4-Bromofluorobenzene	99.7	80-120		%REC	1	11/8/2012 10:13:24 PM

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- 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

# Analytical Report

Lab Order 1211287

Date Reported: 11/9/2012

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: SB-8@3'

Project: Enterprise Newsome B#8

Collection Date: 11/2/2012 3:08:00 PM

Lab ID: 1211287-004

Matrix: SOIL

Received Date: 11/7/2012 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: <b>JMP</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	11/9/2012 8:06:52 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/9/2012 8:06:52 AM
Surr: DNOP	97.8	77.6-140		%REC	1	11/9/2012 8:06:52 AM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/8/2012 10:42:10 PM
Surr: BFB	95.9	84-116		%REC	1	11/8/2012 10:42:10 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Methyl tert-butyl ether (MTBE)	ND	0.098		mg/Kg	1	11/8/2012 10:42:10 PM
Benzene	ND	0.049		mg/Kg	1	11/8/2012 10:42:10 PM
Toluene	ND	0.049		mg/Kg	1	11/8/2012 10:42:10 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/8/2012 10:42:10 PM
Xylenes, Total	ND	0.098		mg/Kg	1	11/8/2012 10:42:10 PM
Surr: 4-Bromofluorobenzene	99.1	80-120		%REC	1	11/8/2012 10:42:10 PM

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- 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

**Analytical Report**

Lab Order 1211287

Date Reported: 11/9/2012

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Souder, Miller and Associates**Client Sample ID:** SB-9@3'**Project:** Enterprise Newsome B#8**Collection Date:** 11/2/2012 3:15:00 PM**Lab ID:** 1211287-005**Matrix:** SOIL**Received Date:** 11/7/2012 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: <b>JMP</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	11/9/2012 8:28:49 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/9/2012 8:28:49 AM
Surr: DNOP	97.1	77.6-140		%REC	1	11/9/2012 8:28:49 AM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/8/2012 11:10:53 PM
Surr: BFB	95.2	84-116		%REC	1	11/8/2012 11:10:53 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Methyl tert-butyl ether (MTBE)	ND	0.095		mg/Kg	1	11/8/2012 11:10:53 PM
Benzene	ND	0.048		mg/Kg	1	11/8/2012 11:10:53 PM
Toluene	ND	0.048		mg/Kg	1	11/8/2012 11:10:53 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/8/2012 11:10:53 PM
Xylenes, Total	ND	0.095		mg/Kg	1	11/8/2012 11:10:53 PM
Surr: 4-Bromofluorobenzene	98.4	80-120		%REC	1	11/8/2012 11:10:53 PM

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- 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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1211287

09-Nov-12

Client: Souder, Miller and Associates

Project: Enterprise Newsome B#8

Sample ID	MB-4743	SampType	MBLK	TestCode	EPA Method 8015B: Diesel Range Organics					
Client ID	PBS	Batch ID	4743	RunNo	6776					
Prep Date	11/8/2012	Analysis Date	11/9/2012	SeqNo	195920	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.9		10.00		89.5	77.6	140			

Sample ID	LCS-4743	SampType	LCS	TestCode	EPA Method 8015B: Diesel Range Organics					
Client ID	LCSS	Batch ID	4743	RunNo	6776					
Prep Date	11/8/2012	Analysis Date	11/9/2012	SeqNo	195921	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	44	10	50.00	0	87.9	52.6	130			
Surr: DNOP	4.3		5.000		85.6	77.6	140			

Sample ID	1211287-001AMS	SampType	MS	TestCode	EPA Method 8015B: Diesel Range Organics					
Client ID	SB-1@8'	Batch ID	4743	RunNo	6776					
Prep Date	11/8/2012	Analysis Date	11/9/2012	SeqNo	195924	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	42	9.8	49.07	0	84.8	57.2	146			
Surr: DNOP	3.9		4.907		79.0	77.6	140			

Sample ID	1211287-001AMSD	SampType	MSD	TestCode	EPA Method 8015B: Diesel Range Organics					
Client ID	SB-1@8'	Batch ID	4743	RunNo	6776					
Prep Date	11/8/2012	Analysis Date	11/9/2012	SeqNo	195928	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	42	10	50.00	0	84.7	57.2	146	1.71	24.5	
Surr: DNOP	4.3		5.000		86.6	77.6	140	0	0	

### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- 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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1211287

09-Nov-12

Client: Souder, Miller and Associates

Project: Enterprise Newsome B#8

Sample ID	MB-4726		SampType: MBLK		TestCode: EPA Method 8015B: Gasoline Range					
Client ID:	PBS		Batch ID: 4726		RunNo: 6768					
Prep Date:	11/7/2012		Analysis Date: 11/8/2012		SeqNo: 196327		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	960		1000		95.7	84	116			

Sample ID	LCS-4726		SampType: LCS		TestCode: EPA Method 8015B: Gasoline Range					
Client ID:	LCSS		Batch ID: 4726		RunNo: 6768					
Prep Date:	11/7/2012		Analysis Date: 11/8/2012		SeqNo: 196328		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	100	74	117			
Surr: BFB	990		1000		99.1	84	116			

Sample ID	1211260-001AMS		SampType: MS		TestCode: EPA Method 8015B: Gasoline Range					
Client ID:	BatchQC		Batch ID: 4726		RunNo: 6768					
Prep Date:	11/7/2012		Analysis Date: 11/8/2012		SeqNo: 196350		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	4.7	23.63	0	114	70	130			
Surr: BFB	960		945.2		102	84	116			

Sample ID	1211260-001AMSD		SampType: MSD		TestCode: EPA Method 8015B: Gasoline Range					
Client ID:	BatchQC		Batch ID: 4726		RunNo: 6768					
Prep Date:	11/7/2012		Analysis Date: 11/8/2012		SeqNo: 196351		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	4.7	23.61	0	119	70	130	4.46	22.1	
Surr: BFB	980		944.3		104	84	116	0	0	

### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- 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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1211287

09-Nov-12

Client: Souder, Miller and Associates

Project: Enterprise Newsome B#8

Sample ID	MB-4726		SampType: MBLK	TestCode: EPA Method 8021B: Volatiles						
Client ID:	PBS		Batch ID: 4726	RunNo: 6768						
Prep Date:	11/7/2012		Analysis Date: 11/8/2012	SeqNo: 196367		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.10								
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Sample ID	LCS-4726		SampType: LCS	TestCode: EPA Method 8021B: Volatiles						
Client ID:	LCSS		Batch ID: 4726	RunNo: 6768						
Prep Date:	11/7/2012		Analysis Date: 11/8/2012	SeqNo: 196368		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.93	0.10	1.000	0	93.5	62	122			
Benzene	1.0	0.050	1.000	0	103	76.3	117			
Toluene	1.0	0.050	1.000	0	104	80	120			
Ethylbenzene	1.0	0.050	1.000	0	105	77	116			
Xylenes, Total	3.2	0.10	3.000	0	105	76.7	117			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120			

Sample ID	1211293-001AMS		SampType: MS	TestCode: EPA Method 8021B: Volatiles						
Client ID:	BatchQC		Batch ID: 4726	RunNo: 6768						
Prep Date:	11/7/2012		Analysis Date: 11/8/2012	SeqNo: 196370		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.98	0.095	0.9488	0	103	61.3	215			
Benzene	1.1	0.047	0.9488	0	115	67.2	113			S
Toluene	1.1	0.047	0.9488	0	117	62.1	116			S
Ethylbenzene	1.1	0.047	0.9488	0	118	67.9	127			
Xylenes, Total	3.4	0.095	2.846	0	119	60.6	134			
Surr: 4-Bromofluorobenzene	1.0		0.9488		108	80	120			

Sample ID	1211293-001AMSD		SampType: MSD	TestCode: EPA Method 8021B: Volatiles						
Client ID:	BatchQC		Batch ID: 4726	RunNo: 6768						
Prep Date:	11/7/2012		Analysis Date: 11/8/2012	SeqNo: 196371		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.92	0.095	0.9506	0	97.2	61.3	215	5.57	19.6	
Benzene	1.1	0.048	0.9506	0	113	67.2	113	2.11	14.3	
Toluene	1.1	0.048	0.9506	0	115	62.1	116	1.24	15.9	
Ethylbenzene	1.1	0.048	0.9506	0	115	67.9	127	1.79	14.4	
Xylenes, Total	3.3	0.095	2.852	0	117	60.6	134	1.40	12.6	
Surr: 4-Bromofluorobenzene	1.0		0.9506		105	80	120	0	0	

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- 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



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87106  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name: SMA-FARM

Work Order Number: 1211287

Received by/date:

*[Signature]*

11/07/12

Logged By: Ashley Gallegos

11/7/2012 9:55:00 AM

*[Signature]*

Completed By: Ashley Gallegos

11/7/2012 12:50:04 PM

*[Signature]*

Reviewed By:

*[Signature]*

11/09/2012

### Chain of Custody

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

### Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA
6. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☐ No ☒ NA
11. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐ # of preserved bottles checked for pH:
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐ (<2 or >12 unless noted)
15. Is it clear what analyses were requested? Yes ☒ No ☐ Adjusted?
16. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐ Checked by:

### Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via:

eMail

Phone

Fax

In Person

Regarding:

Client Instructions:

18. Additional remarks:

### 19. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			



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

Name of Company Enterprise Field Services, LLC	Contact Aaron Dailey	
Address 614 Reilly Avenue, Farmington, NM 87401	Telephone No. (505) 599-2286	
Facility Name Turner A #1A	Facility Type Natural Gas Gathering Meter Tube	
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
C	34	31 N	11 W					San Juan

Latitude \_N 36.8596\_ Longitude \_W 107.9825 (decimal degrees)\_

**NATURE OF RELEASE**


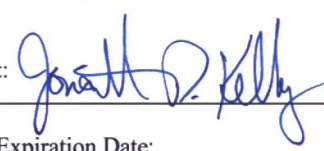
Type of Release Natural gas vapor and condensate	Volume of Release 260 MCF and 20 gallons liquid estimated	Volume Recovered
Source of Release natural gas gathering meter tube location	Date and Hour of Occurrence 1/22/2013 @ 04:00 hours	Date and Hour of Discovery 1/22/2013 @ 08:00 hours
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? RCVD MAR 11 '13	
By Whom? Aaron Dailey	Date and Hour	OIL CONS. DIV.
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. DIST. 2	

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\* Third party producer notified Enterprise employee that the meter run on the Turner A #1A MV was split and had leaked water and gas. The producer shut the upstream and downstream block valves upon discovery. Enterprise employee went to the location to inspect and found a split approximately 16" long by 1/16" wide in the meter run piping downstream of the orifice plate. A six foot square area under the split was discovered to have been stained with condensate.

Describe Area Affected and Cleanup Action Taken.\* A third party dirt contractor, to include an environmental contractor, were dispatched to the area on 1/24/2013 to clean up the area using dig and haul methods. Stained soil was removed and hauled to an OCD approved landfarm facility; affected area was cleaned to levels below OCD regulatory standards. 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 federal, state, or local laws and/or regulations.

Signature: 		<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Matt Marra		Approved by Environmental Specialist: 	
Title: Senior Director, Environmental		Approval Date: 3/26/2013	Expiration Date:
E-mail Address: memarra@eprod.com		Conditions of Approval:	
Date: 2-7-2013 Phone: 713-381-6684		Attached <input type="checkbox"/>	

\* Attach Additional Sheets If Necessary

NJK 1308553183

**RELEASE REPORT**  
**TURNER A #1A MV**  
**SAN JUAN COUNTY,**  
**NEW MEXICO**

**February 14, 2013**

**SMA #5122104**

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

RCVD MAR 11 '13  
OIL CONS. DIV.  
DIST. 3



Depth to Groundwater	NMOCD Numeric Rank for this Site	Source for Ranking	Notes
< 50 BGS = 20	10	USGS Topo Maps; Google Earth	Release is approximately 78 feet in elevation above the Animas River
50' to 99' = 10			
>100' = 0			
Ranking Criteria for Horizontal Distance to Nearest Surface Water	NMOCD Numeric Rank for this Site	Source for Ranking	Notes
< 200' = 20	0	USGS Topo Maps; Google Earth	Release is located approximately 1,900 feet west of the Animas River
200'-1000' = 10			
>1000' = 0			
Ranking Criteria for Horizontal Distance to a Water Well or Water Source	NMOCD Numeric Rank for this Site	Source for Ranking	Notes
<1000' from a water source?	0	NM State Engineer Water Well Database	6 Wells in Section 34
<200' for a private domestic water source? YES OR NO to BOTH. YES = 20, NO = 0	0		
<b>Total Site Ranking</b>	<b>10</b>		
<b>Soil Remediation Standards</b>	<b>0 to 9</b>	<b>10 to 19</b>	<b>&gt;19</b>
<b>Benzene</b>	10 PPM	10 PPM	10 PPM
<b>BTEX</b>	50 PPM	50 PPM	50 PPM
<b>TPH</b>	5000 PPM	1000 PPM	100 PPM

RELEASE INFORMATION				
Name	Turner A #1A MV			
Release Location	Latitude = 36.859616		Longitude = -107.982549	
	SE 1/4 NW 1/4 Section 34		Township 31N	Range 11W
	San Juan County			
Date Reported	January 23, 2013			
Reported by	Aaron Dailey			
Land Owner	BLM			
Regulatory Authority	NMOCD			
Reported to	NMOCD and BLM			
Enterprise Representative	Gary Turner			
Source of Release	Rupture due to frozen meter tube			
Release Contents	Condensate/Natural Gas Liquids			
Release Volume	260 MCF Natural gas/Est. 20 gal condensate			
Nearest Waterway	Animas River 1,900 feet to the west			
SMA Response Date(s)	January 24, 2013			
Sub-contractor(s)	Industrial Mechanics Incorporated (IMI)			
Soil Disposal Facility	Industrial Ecosystems, Inc. (IEI)			
Total Cubic Yards Removed	20 Cubic Yards			

**RELEASE RESPONSE SUMMARY**

**Response Activities:** On January 24, 2013, Souder, Miller & Associates (SMA) responded to a release at the Turner A #1A well site. The site location is illustrated in Figure 1. The release was a result of a frozen meter tube associated with the Turner A #1A natural gas well. SMA and a third party excavation contractor, IMI, were on site to assess and excavate the impacted soil which resulted from the release. SMA guided the excavation by collecting soil samples which were field screened using a calibrated photo ionization detection (PID).

The final excavation dimensions measured approximately 26 feet long by 8.5 feet wide ranging from ground surface to 3.5 feet deep. The deepest area of the excavation was located below the cracked meter tube and gradually became shallower towards the east. Two composite soil samples were collected from various depths within the excavation. The locations of the laboratory composite soil samples are illustrated in Figure 2 and field screening results are included in the attached table.

**Laboratory Analysis:** All soil samples were analyzed per United States Environmental Protection Agency (USEPA) Methods 8021 Benzene, Toluene, Ethyl-Benzene, and Xylenes (BTEX) and 8015 Gasoline Range Organics/Diesel Range Organics. Laboratory analyses are illustrated in Figure 2 and in the attached table. Laboratory analytical reports are included as an attachment.

Laboratory analyses indicate that all soil samples collected are below regulatory standards for contaminants of concern.

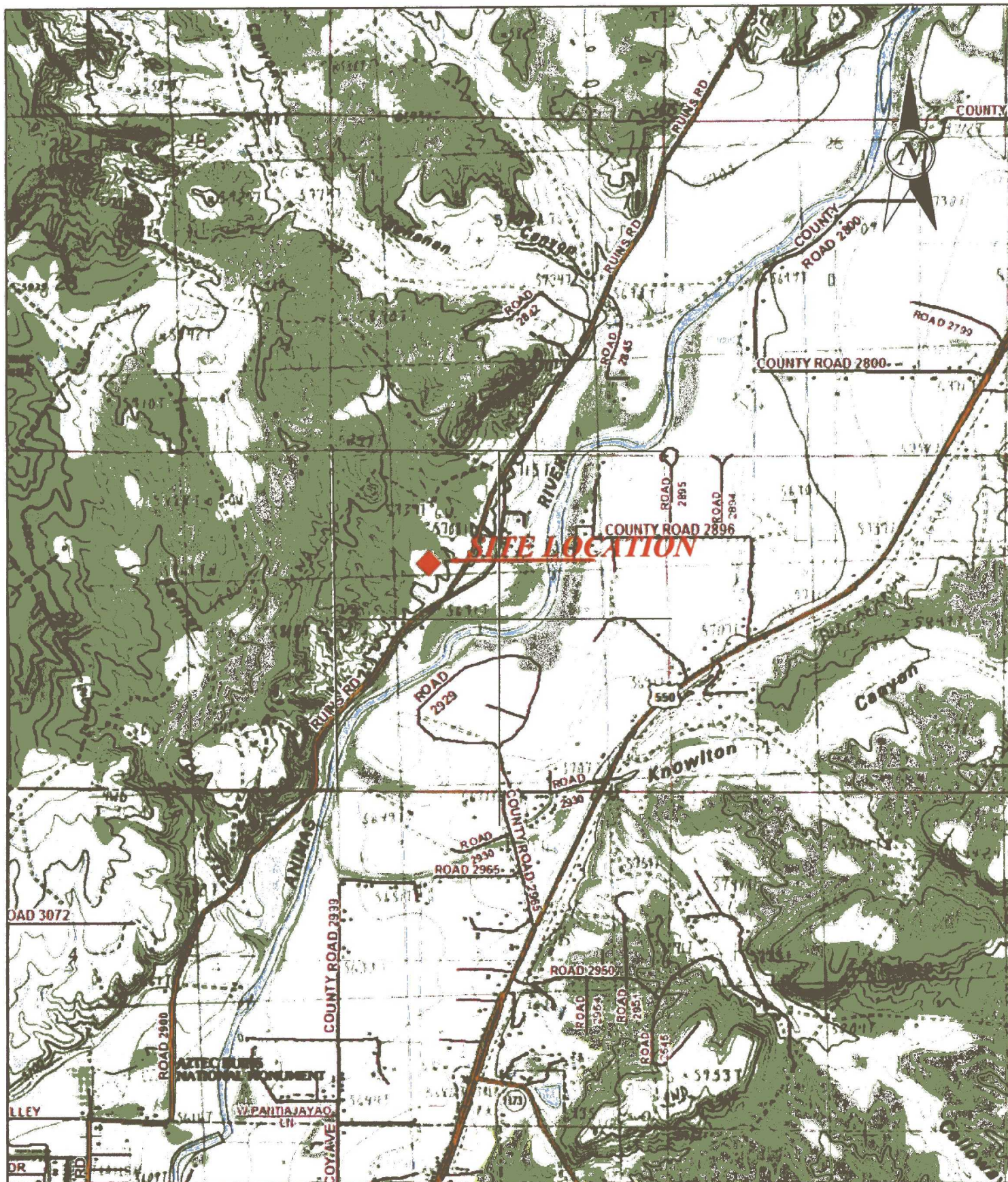
**Soil Disposal:** A total of 20 cubic yards of hydrocarbon-contaminated soil was transported by IMI and its subcontractor to IEI near Aztec, New Mexico for proper disposal. Bills of Lading are included as an attachment.

**Recommendation:** SMA recommends that no further action is needed at this site.



FIELD SCREENING RESULTS SUMMARY						
Date	Time	Field Screening Reference	Sample Depth (Feet BGS)	PID Results	Petro Flag Results	Lab Sample Collected Y/N
1/24/2013	11:25	SS-1	3.0	14.9		
1/24/2013	11:16	SS-2	1.5	208.0		
1/24/2013	11:39	SS-3	0.5	782.0		
1/24/2013	12:00	SS-3	1.0	4.2		
1/24/2013	11:47	SS-4	3.0	1147.0		
1/24/2013	12:10	SS-4	3.5	156.0		
1/24/2013	11:46	SS-5	0.5	556.0		
1/24/2013	12:12	SS-5	1.0	96.7		
1/24/2013	12:13	SS-6	1.0	58.4		
1/24/2013	12:15	SS-7	0.5	38.4		
1/24/2013	12:45	SS-8	0.5	41.1		
1/24/2013	13:50	SS-9	2.0	1109.0		
1/24/2013	14:00	SS-9	3.0	67.4		
1/24/2013	14:13	SS-10	2.0	1152.0		
1/24/2013	14:21	SS-10	3.0	151.0		
1/24/2013	14:15	SS-11	0.5	6.0		
1/24/2013	14:16	SS-12	2.0	40.2		
1/24/2013	14:35	East Composite	0-2	61.1		Y
1/24/2013	14:38	West Composite	41309	17.1		Y

LABORATORY ANALYTICAL SUMMARY							
Date	Time	Sample ID	Sample Depth (Feet BGS) (mg/Kg)	Method 8015 GRO (mg/Kg)	Method 8015 DRO (mg/Kg)	Method 8021 Benzene (mg/Kg)	Method 8021 BTEX (mg/Kg)
1/24/2013	14:35	East Composite	0 to 2	<4.8	<10	<0.048	<0.096
1/24/2013	14:38	West Composite	2 to 4	<4.9	<10	<0.049	<0.099



SCALE

0' 1000' 2000' 4000'

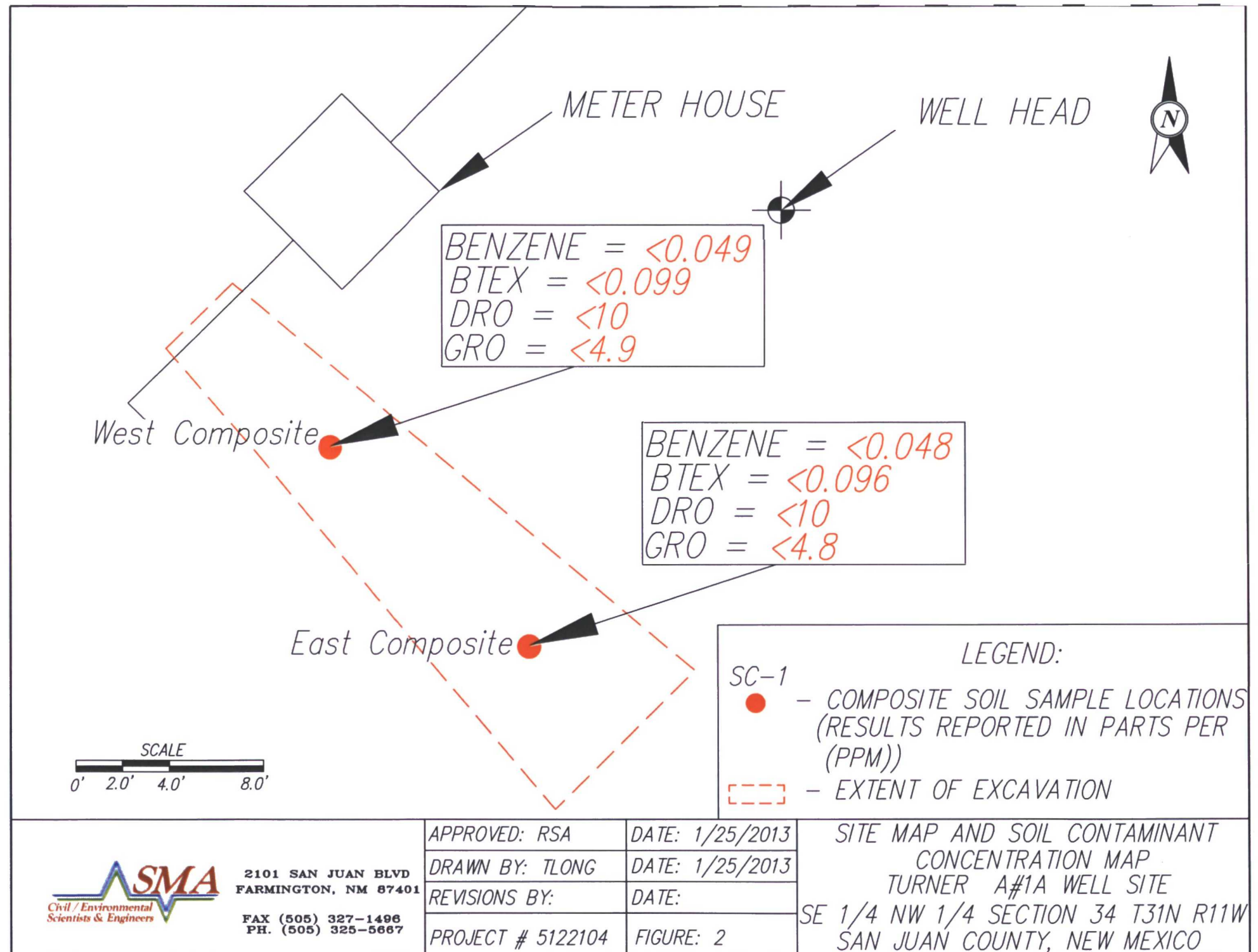


2101 SAN JUAN BLVD  
FARMINGTON, NM 87401

FAX (505) 327-1496  
PH. (505) 325-5667

APPROVED: RSA	DATE: 1/25/2013
DRAWN BY: TLONG	DATE: 1/25/2013
REVISIONS BY:	DATE:
PROJECT # 5122104	FIGURE: 1

VICINITY MAP  
TURNER A#1A MV WELL SITE  
SE 1/4 NW 1/4 SECTION 34 T31N R11W  
SAN JUAN COUNTY, NEW MEXICO



Site Photographs  
Enterprise Products Turner A #1A MV Release Site

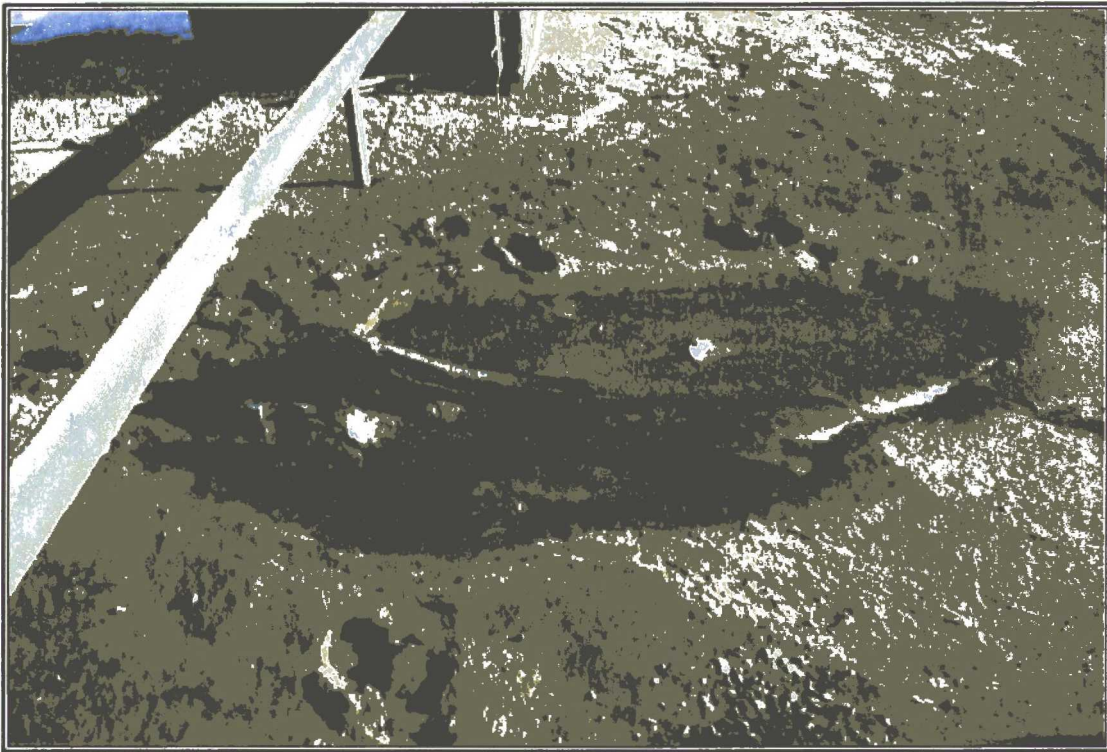


Photo 1: View of the release area for the Turner A #1A meter tube release.



Photo 2: View of the release area at the Turner A #1A well site; Note, ice from snow melt.

**Site Photographs**  
**Enterprise Products Turner A #1A MV Release Site**



Photo 3: View of the excavation activities for the Turner a #1A well site; note test pits for lateral extent.



Photo 4: View of the excavation for the Turner A #1A well site at the meter tube break.

**Site Photographs**  
**Enterprise Products Turner A #1A MV Release Site**



Photo 5: View of backfilling activities after completion of excavation activities and meter tube removal.



Photo 6: View of backfilling activities after completion of excavation activities and meter tube removal.



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

February 01, 2013

Steve Maskel

Souder, Miller and Associates

2101 San Juan Boulevard

Farmington, NM 87401

TEL: (505) 325-5667

FAX (505) 327-1496

RE: Turner A #1A

OrderNo.: 1301858

Dear Steve Maskel:

Hall Environmental Analysis Laboratory received 2 sample(s) on 1/25/2013 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](http://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,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

**Analytical Report**Lab Order **1301858**

Date Reported: 2/1/2013

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Souder, Miller and Associates**Client Sample ID:** East Composite**Project:** Turner A #1A**Collection Date:** 1/24/2013 2:35:00 PM**Lab ID:** 1301858-001**Matrix:** SOIL**Received Date:** 1/25/2013 10:00:00 AM

<b>Analyses</b>	<b>Result</b>	<b>RL</b>	<b>Qual</b>	<b>Units</b>	<b>DF</b>	<b>Date Analyzed</b>
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						<b>Analyst: MMD</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/31/2013 1:00:53 PM
Surr: DNOP	92.8	72.4-120		%REC	1	1/31/2013 1:00:53 PM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						<b>Analyst: NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/28/2013 2:34:42 PM
Surr: BFB	99.3	84-116		%REC	1	1/28/2013 2:34:42 PM
<b>EPA METHOD 8021B: VOLATILES</b>						<b>Analyst: NSB</b>
Benzene	ND	0.048		mg/Kg	1	1/28/2013 2:34:42 PM
Toluene	ND	0.048		mg/Kg	1	1/28/2013 2:34:42 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/28/2013 2:34:42 PM
Xylenes, Total	ND	0.096		mg/Kg	1	1/28/2013 2:34:42 PM
Surr: 4-Bromofluorobenzene	107	80-120		%REC	1	1/28/2013 2:34:42 PM

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- 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

**Analytical Report**Lab Order **1301858**

Date Reported: 2/1/2013

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Souder, Miller and Associates**Client Sample ID:** West Composite**Project:** Turner A #1A**Collection Date:** 1/24/2013 2:38:00 PM**Lab ID:** 1301858-002**Matrix:** SOIL**Received Date:** 1/25/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: <b>MMD</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/31/2013 1:22:40 PM
Surr: DNOP	96.1	72.4-120		%REC	1	1/31/2013 1:22:40 PM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/28/2013 3:03:31 PM
Surr: BFB	98.6	84-116		%REC	1	1/28/2013 3:03:31 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.049		mg/Kg	1	1/28/2013 3:03:31 PM
Toluene	ND	0.049		mg/Kg	1	1/28/2013 3:03:31 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/28/2013 3:03:31 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/28/2013 3:03:31 PM
Surr: 4-Bromofluorobenzene	107	80-120		%REC	1	1/28/2013 3:03:31 PM

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- 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

100

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1301858

01-Feb-13

Client: Souder, Miller and Associates

Project: Turner A #1A

Sample ID	MB-5902	SampType:	MBLK	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	PBS	Batch ID:	5902	RunNo:	8358					
Prep Date:	1/30/2013	Analysis Date:	1/31/2013	SeqNo:	241455	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

72.4

120

Sample ID	LCS-5902	SampType:	LCS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	5902	RunNo:	8358					
Prep Date:	1/30/2013	Analysis Date:	1/31/2013	SeqNo:	241456	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

96.1

47.4

122

Surr: DNOP

4.9

5.000

98.1

72.4

120

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- 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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1301858

01-Feb-13

Client: Souder, Miller and Associates

Project: Turner A #1A

Sample ID	MB-5845		SampType: MBLK		TestCode: EPA Method 8015B: Gasoline Range					
Client ID:	PBS		Batch ID: 5845		RunNo: 8306					
Prep Date:	1/25/2013		Analysis Date: 1/28/2013		SeqNo: 239872		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	960		1000		96.0	84	116			

Sample ID	LCS-5845		SampType: LCS		TestCode: EPA Method 8015B: Gasoline Range					
Client ID:	LCSS		Batch ID: 5845		RunNo: 8306					
Prep Date:	1/25/2013		Analysis Date: 1/28/2013		SeqNo: 239873		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	92.0	74	117			
Surr: BFB	980		1000		98.1	84	116			

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- 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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1301858

01-Feb-13

Client: Souder, Miller and Associates

Project: Turner A #1A

Sample ID	<b>MB-5845</b>		SampType:	<b>MBLK</b>		TestCode:	<b>EPA Method 8021B: Volatiles</b>			
Client ID:	<b>PBS</b>		Batch ID:	<b>5845</b>		RunNo:	<b>8306</b>			
Prep Date:	<b>1/25/2013</b>		Analysis Date:	<b>1/28/2013</b>		SeqNo:	<b>239889</b>		Units: <b>mg/Kg</b>	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			

Sample ID	<b>LCS-5845</b>		SampType:	<b>LCS</b>		TestCode:	<b>EPA Method 8021B: Volatiles</b>			
Client ID:	<b>LCSS</b>		Batch ID:	<b>5845</b>		RunNo:	<b>8306</b>			
Prep Date:	<b>1/25/2013</b>		Analysis Date:	<b>1/28/2013</b>		SeqNo:	<b>239890</b>		Units: <b>mg/Kg</b>	
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	102	80	120			
Ethylbenzene	1.0	0.050	1.000	0	103	80	120			
Xylenes, Total	3.1	0.10	3.000	0	102	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		110	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

- 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



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87105  
TEL: 505-345-3975 FAX: 505-345-4101  
Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name: SMA-FARM Work Order Number: 1301858  
Received by/date: AG 01/25/13  
Logged By: Anne Thorne 1/25/2013 10:00:00 AM Am Th  
Completed By: Anne Thorne 1/25/2013 Am Th  
Reviewed By: mg 01/25/13

### Chain of Custody

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

### Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA ☐  
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐  
6. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐  
7. Sample(s) in proper container(s)? Yes ☒ No ☐  
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐  
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐  
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐  
11. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒  
12. Were any sample containers received broken? Yes ☐ No ☒  
13. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐  
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐  
15. Is it clear what analyses were requested? Yes ☒ No ☐  
16. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

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

### Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

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

18. Additional remarks:

### 19. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1	Good	Yes			

Client: Enterprise-SMA

Mailing Address: 2101 San Juan Blvd  
Farmington NM, 87401

Phone #: 505 325-7535

email or Fax#: Steven.Meskai@SanderMiller.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other \_\_\_\_\_

☐ EDD (Type) \_\_\_\_\_

☒ Standard      ☐ Rush

Turner A #1 A

Project #:

5122104

**Project Manager:**

Steve Masked	Tom Long
--------------	----------

Sampler: Steve Mastai

On Ice: ☒ Yes ☐ No

Sample Temperature: 10°C

[illegible]

Date:	Time:	Relinquished by:
1/24/13	1535	<i>[Signature]</i>

Date:	Time:	Relinquished by:
1/24/13	1256	Chris H. Winters

Received by: Christopher Wilson Date 1/24/13 Time 1535

Received by: [Signature] Date 5/25/13 Time 1:00

Remarks:  
- Invoice to Enterprise  
- BTEX  $\neq$  8015 GRO/DRO  
only  
Sci-Tech Inc. @ scitechmiller.com



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

[www.hallenvironmental.com](http://www.hallenvironmental.com)

4901 Hawkins NE - Albuquerque, NM 87109

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

## Analysis Request

	X	BTEX + MTBE + TMB's (8021)
		BTEX + MTBE + TPH (Gas only)
	X	TPH Method 8015B (Gas/Diesel)
		TPH (Method 418.1)
		EDB (Method 504.1)
		8310 (PNA or PAH)
		RCRA 8 Metals
		Anions (F, Cl, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> )
		8081 Pesticides / 8082 PCB's
		8260B (VOA)
		8270 (Semi-VOA)
		Air Rubbles (Y or N)

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



Industrial Ecosystems Inc.  
Soil Reclamation Center

24

P.O. Box 2043  
Farmington NM 87499

Phone: (505) 632-1782  
Fax: (505) 632-1876

#49 CR 3150  
Aztec NM 87410

## Material Entry Record

Date: 1/24/13

Company Representatives Name: Cannon Dailey

Generator of Material: Enterprise

Phone Number: \_\_\_\_\_

Origin of Material (Location): Juarez A1

Rig # \_\_\_\_\_

Material Transported by: IMI (mass)

H2S Gas ☒ Non-Detect ☐ Detect: Level \_\_\_\_\_

Driver's Name: Lee Moss Exc.

Driver's Cell #: \_\_\_\_\_

Truck Number: 47

Pile Number: \_\_\_\_\_

☐ Logged in Corresponding BioPile Sheet

164 Chlorides 9.0 PH \_\_\_\_\_ TDS

Paint Filter Test: ☒ Passed ☐ Failed ☐ Pit ☐ Tanks

☐ DENIED / REJECTED

Mud

Type of Material

oil  
Gravel  
Solidified Liquid  
Other

<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>

Tank Bottom Sludge  
Tank Cleaning Residue  
Charcoal Filter Media  
Washout by: \_\_\_\_\_


Amount of Material

	Load #1	Load #2	Load #3	Load #4	Load #5	Load #6	Load #7	Load #8	Load #9	Load #10
pic Yards	12	8								
els	12	12								
ishout										
rk #	47	47								
in	12:21	3:05p								
Out	12:41	3:20p								
n Initials	<u>LM</u>	<u>LM</u>								

empt  
n Exempt

XXX

I certify that the quantity and type of waste is that listed above. To the best of my knowledge, no other quantities or types of wastes have been added or removed.

Driver's signature: Lee Moss

Plant's Signature: M. Markey

200g

21/RS

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

State of New Mexico  
Energy Minerals and Natural Resources

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

Form C-141  
Revised August 8, 2011

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

**Release Notification and Corrective Action**

**OPERATOR**

☒ Initial Report (Groundwater) ☐ 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 C-11 Gathering line	Facility Type	Natural Gas Gathering Pipeline

Surface Owner	Navajo Allotment	Mineral Owner	Navajo Allotment	API No.
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**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	10	27N	9W					San Juan

Latitude\_N36.5866\_ Longitude\_W107.7677 (Decimal Degrees)\_

**NATURE OF RELEASE**

Type of Release	Natural Gas Condensate	Volume of Release	Unknown with historic soil impacts	Volume Recovered	TBD
Source of Release	Natural gas gathering pipeline	Date and Hour of Occurrence	Unknown	Date and Hour of Discovery	Groundwater impact noted by third party environmental contractor on 1.25.2013 @ 11:20 hours (OVM at 1700 ppm)
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Steve Austin (NNEPA) and Glenn Von Gonten (NM OCD Environmental Bureau)		
By Whom?	Aaron Dailey	Date and Hour	e-mail notification, left message 1/25/2013 @ 13:00 hours		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

RCVD FEB 4 '13

OIL CONS. DIV.

DIST. 3

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*

This report documents apparent groundwater impacts discovered at this particular location.

Describe Area Affected and Cleanup Action Taken.\*

During the pipe repairs that occurred on December 21, 2012, it was noted that historical impacts have affected soils along and below the pipeline. A third party environmental contractor was dispatched to obtain soil samples from the spoil pile and walls of the excavation and confirmed hydrocarbon impact of the soils at that time. Further assessment on January 18, 2013 using a Geoprobe to 40 feet, which maxed out the machine, determined hydrocarbon impacts above NMOCD action levels for this location. Subsequent drilling with a CME-75 truck mounted rig using hollow stem augers encountered groundwater at approximately 41.5 feet below ground surface while drilling. The third party environmental contractor recorded organic vapor meter readings of approximately 1700 parts per million in the soil sample collected from about 40 to 41.5 feet below ground surface in a boring. Enterprise is currently working with the Navajo EPA, BIA, Navajo Water Authority, NM OCD, and any other jurisdictional agency(ies) to permit for, install groundwater monitoring wells, continue to assess and remediate this area where historic impacts exist. Third party environmental remedial action and status reports summarizing these activities will be submitted to applicable jurisdictional agencies as required/requested.

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:

Printed Name: Matt Marra

Title: Senior Director, Environmental

E-mail Address: memarra@eprod.com

Date: 1-31-2013 Phone: (713)381-6684

**OIL CONSERVATION DIVISION**

Approved by Environmental Specialist:

Approval Date: 2/27/2013

Expiration Date:

Conditions of Approval:

Attached ☐

\* Attach Additional Sheets If Necessary

nJK 1305850519

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

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 8, 2011

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

**Release Notification and Corrective Action**

**OPERATOR**

☒ Initial Report ☐ Final Report

Name of Company Enterprise Field Services, LLC	Contact Aaron Dailey	
Address 614 Reilly Avenue, Farmington NM 87401	Telephone No. (505)599-2286	
Facility Name Otero #5 Well Location	Facility Type Natural Gas Meter Run Location	
Surface Owner Jicarilla Tribal	Mineral Owner Jicarilla Tribal	API No.

**LOCATION OF RELEASE**

Unit Letter F	Section 28	Township 24N	Range 5W	Feet from the	North/South Line	Feet from the	East/West Line	County Rio Arriba
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Latitude \_N 36.2885\_ Longitude \_W107.3691 (Decimal Degrees) \_

**NATURE OF RELEASE**

Type of Release Natural gas condensate and water release	Volume of Release Unknown— estimated 3-4 barrels	Volume Recovered 60 yards contaminated soil
Source of Release Meter Tube Location	Date and Hour of Occurrence Unknown—appears to be aged	Date and Hour of Discovery 8/12/2013 @ 11:42 hours by Enterprise measurement technician.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes* <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Bryce Hammond and Hobson Sandoval *Immediate notification for any quantity of unauthorized release required by Jicarilla Oil and Gas Administration	
By Whom? Aaron Dailey	Date and Hour 8/13/2013 @ 07:30 hours	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*


Describe Cause of Problem and Remedial Action Taken.\*

Two technicians found a minor release of crude oil, which appeared to be aged, on the Otero 5 well location meter run. There were no footprints or tire tracks upon discovery. Line was isolated, notifications to Jicarilla tribal contacts were made, and cleanup was scheduled.

Describe Area Affected and Cleanup Action Taken.\*

Third party environmental contractor initiated cleanup on 8/16/2013 after one call became effective. Approximately 60 yards of contaminated soil was removed and hauled to an OCD permitted facility. Potassium permanganate was sprayed on the contaminated soil directly beneath the meter run due to inaccessible soils there. Third party corrective action report will be submitted along with a "final" C-141 report when this is 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: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Matt Marra	Approved by Environmental Specialist:	
Title: Sr. Director, Environmental	Approval Date:	Expiration Date:
E-mail Address: memarra@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 8-19-2013 Phone: (713)381-6595		

\* Attach Additional Sheets If Necessary

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

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.
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**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	7	29N	8W					San Juan

Latitude\_N 36.7406\_ Longitude\_W 107.7102\_ (Decimal Degrees)\_

RCVD JAN 10 '13  
OIL CONS. DIV.  
DIST. 3

**NATURE OF RELEASE**

Type of Release	Natural gas vapor and some liquid	Volume of Release	1592 MCF gas and 15-25 gallons liquid	Volume Recovered	0 gas, contaminated soil remediation in progress
Source of Release	Natural gas pipeline	Date and Hour of Occurrence	12/23/2012 @ 06:00 hours (estimated)	Date and Hour of Discovery	12/24/2012 @ 14:00 hours
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.\*

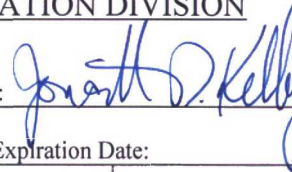
Describe Cause of Problem and Remedial Action Taken.\*

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.

Describe Area Affected and Cleanup Action Taken.\*

Significant gas loss to atmosphere; some overspray and hydrocarbon impacted soil was discovered. A third party contractor is working to apply a mild simple green/water solution to the sandstone cliff to remove the hydrocarbon stains on the sandstone. Any saturated hydrocarbon impacted soil will be removed and transported to an OCD approved landfarm facility. Hydrocarbon impacted soil that has been impacted mildly will be treated in situ.

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:	<u>OIL CONSERVATION DIVISION</u>		
Printed Name: Matt Marra	Approved by Environmental Specialist: 		
Title: Senior Director, Environmental	Approval Date: 2/11/2013	Expiration Date:	
E-mail Address: memarra@eprod.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 12-28-2012 Phone: (713)381-6684			

\* Attach Additional Sheets If Necessary

n5K1304237868

**From:** [Dailey, Aaron](#)  
**To:** [brandon.powell@state.nm.us](mailto:brandon.powell@state.nm.us); [slandon@blm.gov](mailto:slandon@blm.gov)  
**Cc:** [Clelland, Sarah](#)  
**Subject:** FW: San Juan/Northern Rockies GP Incident Notification!  
**Date:** Thursday, December 27, 2012 8:51:00 AM  
**Attachments:** [IMG\\_1611.jpg.jpg](#)  
[IMG\\_8452.jpg.jpg](#)

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Good morning Brandon and Sherrie,

Please find the attached photos of the leg off that split. The line is out of service and will likely remain that way; the plan is to have the pipe removed from service and gas will flow another way.

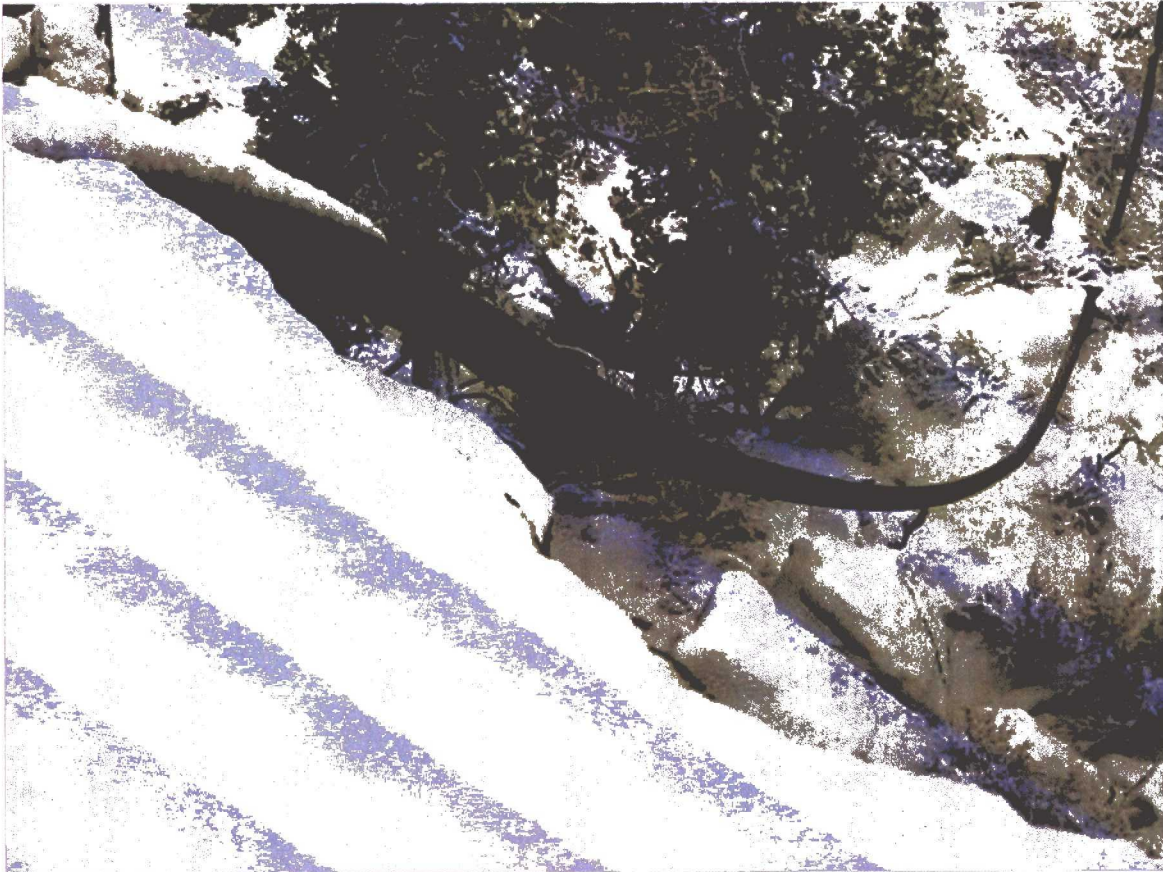
The location of this is Section 7, Township 29 Range 8, GPS N36.74069 W-107.71021

The photos attached to this note were taken yesterday. There are no liquids standing. We will have a cleanup crew in there when we can safely get in there and do some good with spraying and brushing the cliff.

A gas loss estimate is forthcoming and will be indicated on the 15 day c-141 that will be submitted to you both.

Please let me know if you have any questions.

Sincerely,  
aaron



---

**From:** Dailey, Aaron  
**Sent:** Monday, December 24, 2012 11:43 PM  
**To:** 'brandon.powell@state.nm.us'; 'slandon@blm.gov'  
**Subject:** Fw: San Juan/Northern Rockies GP Incident Notification!

Will follow up with a report if there is a spill associated with this.

Thanks,

Aaron

---

**From:** [ecirts@eprod.com](mailto:ecirts@eprod.com) [<mailto:ecirts@eprod.com>]  
**Sent:** Monday, December 24, 2012 07:37 PM  
**To:** Vitolo, Tony; Bennett, Aaron; Roberts, Adam; Coombs, Aspen; Dailey, Aaron; Pappas, Amber; Mouton, Angela; Poppenhusen, Angy; Randall, Alan; Crockett, Alan; Siemer, Alan; Lopez, Alex; [barmenta@eprod.com](mailto:barmenta@eprod.com) <[barmenta@eprod.com](mailto:barmenta@eprod.com)>; Ashenfelter, Brett; Bliss, Benny; Booth, Brian; Booth, Brian; [begahagan@eprod.com](mailto:begahagan@eprod.com) <[begahagan@eprod.com](mailto:begahagan@eprod.com)>; Spencer, Brian; Gibson, Bill; Hergemueller, Bob; Herring, Bobby; Dulban, Ben; Kiser, Brad; Sossaman, Brian; [blevans@eprod.com](mailto:blevans@eprod.com) <[blevans@eprod.com](mailto:blevans@eprod.com)>; Mueller, Brian; Ordemann, Bill; Sullins, Brandon; Sullins, Brandon; Steed, Brett; Wheatley, Bruce; Wilson, Bobby; Auld, Charles (Tony); Barnes, Clyde; O'Nan, Charles; Truby, Chase; Barksdale, Chad; Goos, Coby; Eddy, Chet; [cjlord@eprod.com](mailto:cjlord@eprod.com) <[cjlord@eprod.com](mailto:cjlord@eprod.com)>; Hause, Christopher; Roy, Chris; Timmerman, Chad; Saxton, Cody; Cartwright, Christine; Bolon, Dave; Stewart, Daniel;

Hatch, Don; Rich, Don; D'Aquila, Douglas; D'Aquila, Douglas; [djstucky@eprod.com](mailto:djstucky@eprod.com) <[djstucky@eprod.com](mailto:djstucky@eprod.com)>; Hotzel, Devin; Kingham, Danny; Oldaker, David; Thompson, Dale; Morris, Doug; Morrow, Derrell; Morrow, Derrell; Mueller, Dan; Williams, Don; Wall, Daryl; Anderson, Don; Dixon, Dwayne; Dixon, Dwayne; Garman, David; Zimple, David; Arceneaux, Erick; Fonseca, Elizabeth; Choong, Evelyn; Skeet, Everett; [egarrison@eprod.com](mailto:egarrison@eprod.com) <[egarrison@eprod.com](mailto:egarrison@eprod.com)>; Wood, Eric; Martin, Edmund; Gonzalez, Francisco; Bacon, Graham; Chapman, Gregory; Esterholm, Glen; Turner, Gary; Hale, Gregory; Huntsman, Gilbert; John, George; Arredondo, Gary; Moon, Greg; Roever, Gerald; Stratmann, Gerry; Tarver, George; Watkins, Gregory; Benson, Rick; Graves, Harold; Robertson, Heath; Roddy, Howard; Zirbes, Ivan; Huckaby, James; Rogers, John A.; Lafond, Jeff; Bollom, John; Tibbets, JB; Morton, Jeffrey; Cooksey, John; [jdcrawford@eprod.com](mailto:jdcrawford@eprod.com) <[jdcrawford@eprod.com](mailto:jdcrawford@eprod.com)>; McCullough, Joshua; McElhaney, Jeff; Emerson, James; Baldovinos, Jose; Gregoire, Jesse; Hoffstadt, Jeff; Holland, Dennis; [jjewett@eprod.com](mailto:jjewett@eprod.com) <[jjewett@eprod.com](mailto:jjewett@eprod.com)>; [jkbrown@eprod.com](mailto:jkbrown@eprod.com) <[jkbrown@eprod.com](mailto:jkbrown@eprod.com)>; Kingston, Joel; Kohler, Joel; Cooper, Jamie; McDowell, Jack; Marquis, James; Bauer, John; Bauer, John; McGuire, Jeff; Hurt, Joseph; Mollhagen, Jennifer; Munoz, Jerry; Blackburn, Jason; Munoz, Jamie; Ontiberoz, Joel; Fristoe, Jimmy; Whitney, Joseph; Myers, Jeff; Sobilo, Joe; Rogers, John; [jsterrett@eprod.com](mailto:jsterrett@eprod.com) <[jsterrett@eprod.com](mailto:jsterrett@eprod.com)>; Stoolman, Jeff; Teague, Jim; [jtibbets@eprod.com](mailto:jtibbets@eprod.com) <[jtibbets@eprod.com](mailto:jtibbets@eprod.com)>; [jtillman@eprod.com](mailto:jtillman@eprod.com) <[jtillman@eprod.com](mailto:jtillman@eprod.com)>; Myers, Jeffrey V; Bodenhamer, Kevin; Carney, Ken; Costlow, Kyle; Fulton, Kenny; Dostal, Kevin; Ramsey, Kevin; Cryblskey, Kevin; Lopez, Karla; Oleszek, Kristy; Passmore, Kennie; Valdez, Kenneth; Ables, Byron; Armstrong, Blair; Armstrong, Blair; Armstrong, Blair; Dobel, Lisa; Francisco, Leo; Kaderli, Linda; Rodriguez, Linda; Leidy, Kent; Lucero, Lloyd; Rogers, Leon; Simpson, Lynn; Sanders, Leann; Sandoval, Larry; Setliff, Lonnie; Anderson, Larry; Mallett, Leonard; Adrian, Major; Todd, Mike; Blackwood, Max; Blackwood, Max; Burleson, Michael; Creel, Mike; Baylie, Michael; Lee, Michael; [mdstjohn@eprod.com](mailto:mdstjohn@eprod.com) <[mdstjohn@eprod.com](mailto:mdstjohn@eprod.com)>; Eddleman, M; Garcia, Mari; Marra, Matthew; Bailey, Mark; Bailey, Mark; Cowden, Mike; Mungas, Mike; Waszut, Michael; Hamon, Matthew; Hicks, Michael; [mjmurphy@eprod.com](mailto:mjmurphy@eprod.com) <[mjmurphy@eprod.com](mailto:mjmurphy@eprod.com)>; [mkirish@eprod.com](mailto:mkirish@eprod.com) <[mkirish@eprod.com](mailto:mkirish@eprod.com)>; May, Marvin; Snodgrass, Mike; Mayfield, Michael; McLaughlin, Michael; Caudle, Mark; Stratmann, Matt; Mayo, Michael; Seitzinger, Mike; Ulibarri, Mark; Frank, Michael; Truong, Nhan; Bighorse, Peet; Clah, Phillip; Hale, Preston; Quintana, Paul; Phan, Phu; Phan, Phu; Cooper, Robert; Akins, Robert; Morris, Ralph; Nielsen, Rod; Prentiss, Chip; Williams, Richard; Baysinger, Randy; Belveal, Roger; Pape, Ray; Cantu, Roman; Stuart, Randy; Edwards, Russell D.; Dunn, Roy; [rduran@eprod.com](mailto:rduran@eprod.com) <[rduran@eprod.com](mailto:rduran@eprod.com)>; Brown, Randell; Lee, Richard; Fullmer, Rick; Ryan, Ron; Hill, Ron; Hutchison, Richard; Daves, Bob; Martin, Roy; LaSalle, Richard; [rlDavis@eprod.com](mailto:rlDavis@eprod.com) <[rlDavis@eprod.com](mailto:rlDavis@eprod.com)>; McBee, Robert; Moore, Richard; Richard, Randy; North, Robert; Parks, Rik!; Rainey, Rick; LeClair, Richard; Seale, Runell; [RSipe@eprod.com](mailto:RSipe@eprod.com) <[RSipe@eprod.com](mailto:RSipe@eprod.com)>; Montoy, Richard; Bain, Richard; Thompson, Roger; Jewell, Ricky; McBrayer, Richard; Johnson, Russell; [rwjames@eprod.com](mailto:rwjames@eprod.com) <[rwjames@eprod.com](mailto:rwjames@eprod.com)>; Berry, Sharon; Brennan, Shawn; [scase@eprod.com](mailto:scase@eprod.com) <[scase@eprod.com](mailto:scase@eprod.com)>; Cochran, Stephen; Cooley, Shane; Clelland, Sarah; [sfranks@eprod.com](mailto:sfranks@eprod.com) <[sfranks@eprod.com](mailto:sfranks@eprod.com)>; Kelly, Sean; Hughes, Samuel; Lair, Steve; Liberty, Schanen; Nolan, Shiver; Pudlewski, Steve; Alley, Steve; Taylor, Sandy; Toth, Scott; Trujillo, Sharon; Duplantis, Terry; Greenwald, Trevor; Berry, Tim; Billiot, Timothy; Boisen, Troy; Burns, Tom; Blacker, Thomas; Hurlburt, Terry; Sisung, Ty; Smith, Terah; Morrison, Todd; Gaston, Tyler; Schutt, Tim; Forrester, Timothy; Whitaker, Taylor; Crawford, Victor; Crawford, Victor; Jones, Forrest; Pelkey, Guy; Harrison, Blaze; Mischefsky, John; Burrell, Neal; [wardavenport@epco.com](mailto:wardavenport@epco.com) <[wardavenport@epco.com](mailto:wardavenport@epco.com)>; Rook, William; MassomZadeh, Bonnie; Lee, Stephen; Lieb, James; Mungas, Mike; Dobel, Lisa

**Subject:** San Juan/Northern Rockies GP Incident Notification!

#### A Preliminary Incident Report has been generated!

<b>SUBMITTED BY:</b>	Chad Timmerman
<b>REGION:</b>	San Juan/Northern Rockies GP
<b>STATE:</b>	New Mexico
<b>LOCATION:</b>	LATERAL 3B-71 - PIPELINE, SEGMENT
<b>SERVER:</b>	<a href="http://oesprd01-corp/ecirts/">http://oesprd01-corp/ecirts/</a>
<b>INCIDENT INVOLVED:</b>	<ul style="list-style-type: none"> <li>• Equipment Damage</li> <li>• Gas Release</li> </ul>
<b>DESCRIPTION:</b>	On December 24, 2012 at 2:00 pm Gas Control notified us of third party reporting a possible line leak at mile marker 81 on Hwy 64. Enterprise employees were

dispatched to the area to investigate the report. Upon arrival, a four inch line that drapes off the edge of a cliff appeared to have frozen, swelled and split as shown in the attached photos. The pipeline was then isolated and taken out of service until the damage can be evaluated and the pipeline can be safely placed back into service. The location of the incident is section 7 Township 29 Range 8, GPS N36.74069 W-107.71021

**Click on the following link to view the PIR Report:**

[\[Preliminary Report\]](#)

**Click on the following link to view the printable PIR Report (login not needed):**

[\[Printable Preliminary Report\]](#)

**An Environmental Incident Type has been selected! Please click on the following link to Launch the Spills application and fill out the Required Environmental information:**

[\[Launch Spills Application\]](#)

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

State of New Mexico  
Energy Minerals and Natural Resources

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

Form C-141  
Revised August 8, 2011

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

**Release Notification and Corrective Action**

**OPERATOR**

☐ Initial Report ☒ Final Report

Name of Company: Enterprise Field Services, LLC	Contact: Aaron Dailey
Address: 614 Reilly Ave, Farmington, New Mexico	Telephone No: (505) 599-2124
Facility Name: 3B-14 Pig Receiver	Facility Type: Natural Gas Pipeline Pigging Receiver

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

Unit Letter E	Section 26	Township 30N	Range 10W	Feet from the	North/South Line	Feet from the	East/West Line	County San Juan
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Latitude N 36.7991 Longitude W -107.8775

**NATURE OF RELEASE**

Type of Release: Produced Water/Condensate Mix	Volume of Release: 1-2 BBL liquid*	Volume Recovered: TBD
Source of Release: Natural Gas Pipeline Release	Date and Hour of Occurrence: 9/26/2012 @ 15:00 hours	Date and Hour of Discovery: 09/26/2012 @ 15:00 hours
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? Jonathan Kelly	
By Whom? Aaron Dailey	Date and Hour: 9/26/2012 @ approximately 15:50 hours	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

RCVD JAN 14 '13  
OIL CONS. DIV.  
DIST. 3

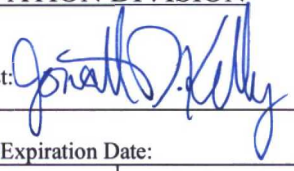
If a Watercourse was Impacted, Describe Fully.\*  
No Watercourse Reached.

Describe Cause of Problem and Remedial Action Taken.\* While receiving a pig from the location, technician was unable to close the pig receiver block valve vent before liquid was released from the pipe. The technician estimated 1-2 barrels was released from the receiver onto the ground before he could close the vent valve.

\*After the receiver was returned to normal operating conditions, the technician was met by a representative from the OCD Aztec district who happened to witness the event first hand while driving down the road. Technician contacted his supervisor, who contacted the company environmental representative, who contacted the local OCD Aztec district office. Enterprise field environmental representative was advised by the Aztec OCD agent to submit a written report to the OCD Aztec District office.

Describe Area Affected and Cleanup Action Taken.\* Third party environmental contractor conducted soil sampling of the area and laboratory analytics are pending. Corrective actions will be conducted based on the laboratory analytic results and third party environmental contractor and agency recommendations. A third party corrective action report is attached to this c-141 "final" 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: 		<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Matt Marra		Approved by Environmental Specialist: 	
Title: Senior Director, Environmental & Technical Services		Approval Date: <u>1/31/2013</u> Expiration Date:	
E-mail Address: memarra@eprod.com		Conditions of Approval:	
Date: <u>1-9-2013</u> Phone: (713)381-6684		Attached <input type="checkbox"/>	

\* Attach Additional Sheets If Necessary

NJK 1303142685



Animas Environmental Services, LLC

[www.animasenvironmental.com](http://www.animasenvironmental.com)

December 5, 2012

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

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

**OIL CONS. DIV DIST. 3**

Durango, Colorado  
970-403-3274

**JAN 31 2013**

**RE: Release Assessment Report  
Lateral B-14 Pig Receiver  
San Juan County, New Mexico**

Dear Mr. Dailey:

On September 27, 2012, Animas Environmental Services, LLC (AES) completed an assessment associated with a non-reportable release consisting of liquids released during pigging operations from the Enterprise Field Services, LLC (Enterprise) Lateral B-14 Pig Receiver. The release location is approximately 6.5 miles east-southeast of Aztec, San Juan County, New Mexico.

---

## 1.0 Site Information

### 1.1 Location

Location – SW¼ NW¼, Section 22, T30N, R10W, San Juan County, New Mexico

Latitude/Longitude – N36.7991 and W107.87754, respectively

Surface Owner – Federal (Bureau of Land Management)

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map

### 1.2 NMOCD Ranking

In accordance with the New Mexico Oil Conservation Division (NMOCD) *Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993), the release location was assigned a ranking score to establish release action levels. The ranking score was obtained in part by reviewing available records of nearby oil/gas wells using the NMOCD online database. A C-144 form dated October 2007 for the Helms Federal #1F well, located approximately 560 feet southwest of the release area, reported the depth to groundwater as greater than 100 feet below ground surface (bgs). Additionally, the New Mexico Office of the State Engineer (NMOSE) database was reviewed for nearby water wells, and no registered water wells were reported to be located within 1,000 feet of the location.

Google Earth and the New Mexico Tech Petroleum Recovery Research Center online mapping tool (<http://ford.nmt.edu/react/project.html>) were accessed to aid in the identification of downgradient surface water. The Cerritos Canyon wash is located approximately 325 feet west of the release location. Based on this information, the release location was assessed a ranking score of 10.

### *1.3 Assessment and Mitigation*

On September 27, 2012, AES collected a total of nine soil samples for field screening and laboratory analysis from the area of surface staining. Soil sample locations are included on Figure 3, and a photograph log is attached.

---

## *2.0 Soil Sampling*

AES personnel collected nine discrete soil samples from eight locations (S-1 through S-8) in an area of surface staining for field screening. Eight of the soil samples were also submitted for laboratory analysis. Each soil sample was collected with a shovel at 0.5 to 1 foot bgs.

### *2.1 Field Screening*

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

### *2.2 Laboratory Analyses*

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

## 2.3 Field Screening and Laboratory Analytical Results

Soil field screening results showed that VOC concentrations ranged from 28.3 ppm in S-1 up to 3,098 ppm in S-6 at 0.5 feet bgs. Soil analytical results from S-1 through S-8 showed that benzene concentrations were below laboratory detection limits. Total BTEX concentrations were above laboratory detection limits in S-3 (0.14 mg/kg), S-5 (0.18 mg/kg), and S-8 (0.27 mg/kg). TPH concentrations were above laboratory detection limits in S-2 (570 mg/kg GRO), S-3 (10 mg/kg GRO), S-4 (5.6 mg/kg GRO), S-5 (36 mg/kg GRO), S-6 (30.5 mg/kg GRO/DRO), and S-8 (80 mg/kg GRO/DRO). Laboratory analytical results are included in Table 1 and on Figure 3. Laboratory analytical reports are attached.

Table 1. Soil Field Screening and Laboratory Analytical Results  
Lateral B-14 Pig Receiver September 2012 Release

Sample ID	Sample Date	Depth (ft)	VOCs OVM (ppm)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)
<b>NMOCD Action Level</b>			<b>100</b>	<b>10</b>	<b>50</b>	<b>1,000*</b>	
S-1	9/27/12	0.5	28.3	<0.048	<0.241	<4.8	<10
S-2	9/27/12	0.5	<b>115</b>	<0.25	<1.24	<25	570
S-3	9/27/12	0.5	<b>703</b>	<0.049	0.14	10	<10
S-4	9/27/12	0.5	<b>1,170</b>	<0.047	<0.235	5.6	<9.9
S-5	9/27/12	0.5	<b>160</b>	<0.048	0.18	36	<10
S-6	9/27/12	0.5	<b>3,098</b>	NA	NA	NA	NA
		1	<b>792</b>	<0.050	<0.25	5.5	25
S-7	9/27/12	0.5	59.9	<0.050	<0.249	<5.0	<10
S-8	9/27/12	0.5	<b>650</b>	<0.099	0.27	22	58

NA - not analyzed; \*Action level determined by the NMOCD ranking score per *NMOCD Guidelines for Leaks, Spills, and Releases* (August 1993).

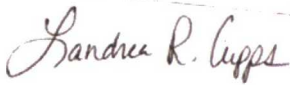
## 3.0 Conclusions and Recommendations

NMOCD action levels for releases are specified in *NMOCD's Guidelines for Leaks, Spills, and Releases* (August 1993), and the release was assigned a ranking score of 10. Based on field screening values, VOC concentrations were above the NMOCD action level of 100 ppm in seven of the soil samples. However, laboratory analytical results for benzene, total BTEX, and TPH (as GRO/DRO) were all below applicable NMOCD action levels.

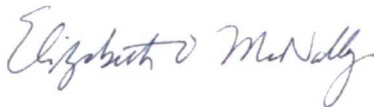
Additionally, on October 18, 2012, at the request of Enterprise, AES personnel applied a dilute solution of Simple Green and water to soil within the release area to stimulate biodegradation of residual petroleum hydrocarbons. A total volume of 187 gallons of a 10:1 solution of Simple Green was applied with a pressure washer and raked into the impacted soil. Based on field observations, laboratory analytical results, and the application of Simple Green, no further work is recommended.

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

Sincerely,



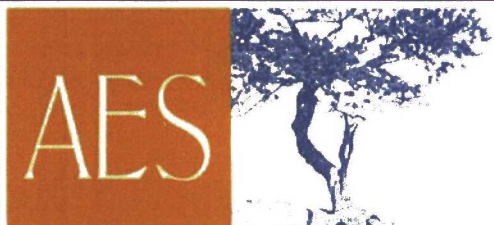
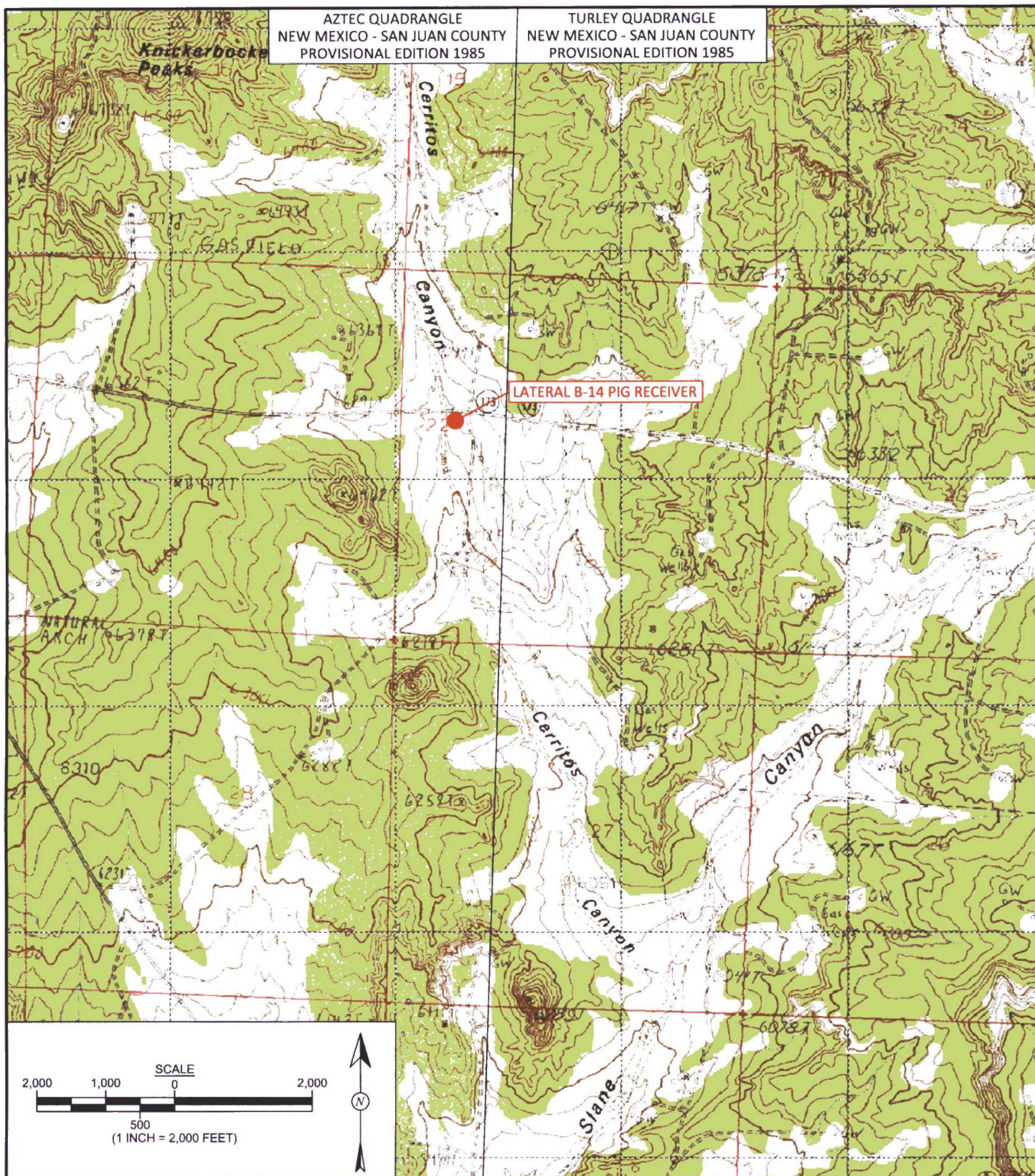
Landrea Cupps  
Environmental Scientist



Elizabeth McNally, P.E.

Attachments:

- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map
- Figure 3. Sample Locations and Results, September 2012
- Photograph Log
- Laboratory Analytical Reports (Hall 1209D16)



Animas Environmental Services, LLC

**DRAWN BY:**

C. Lameman

**DATE DRAWN:**

September 28, 2012

**REVISIONS BY:**

C. Lameman

**DATE REVISED:**

September 28, 2012

**CHECKED BY:**

T. Ross

**DATE CHECKED:**

September 28, 2012

**APPROVED BY:**

E. McNally

**DATE APPROVED:**

September 28, 2012

## FIGURE 1

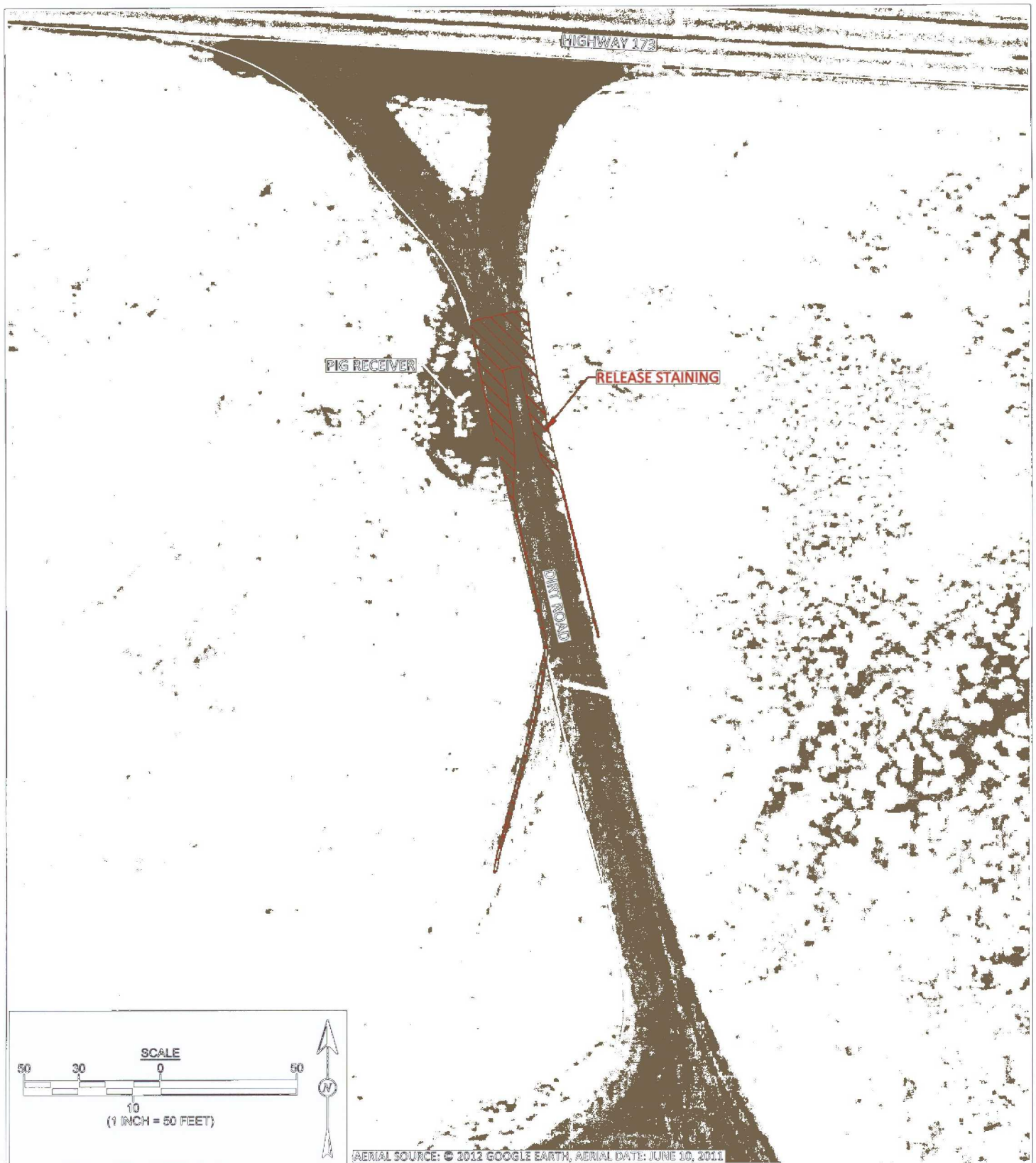
### TOPOGRAPHIC SITE LOCATION MAP

ENTERPRISE FIELD SERVICES, LLC

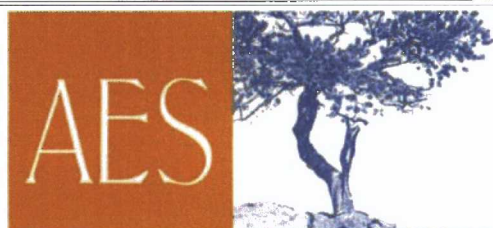
LATERAL B-14 PIG RECEIVER

COUNTY, NEW MEXICO

SW¼, NW¼, SECTION 22, T30N, R10W  
N36.7991, W107.87754



AERIAL SOURCE: © 2012 GOOGLE EARTH, AERIAL DATE: JUNE 10, 2011



Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: September 28, 2012
REVISIONS BY: C. Lameman	DATE REVISED: September 28, 2012
CHECKED BY: T. Ross	DATE CHECKED: September 28, 2012
APPROVED BY: E. McNally	DATE APPROVED: September 28, 2012

FIGURE 2

AERIAL SITE MAP  
ENTERPRISE FIELD SERVICES, LLC  
LATERAL B-14 PIG RECEIVER  
COUNTY, NEW MEXICO  
SW¼ NW¼, SECTION 22, T30N, R10W  
N36.7991, W107.87754

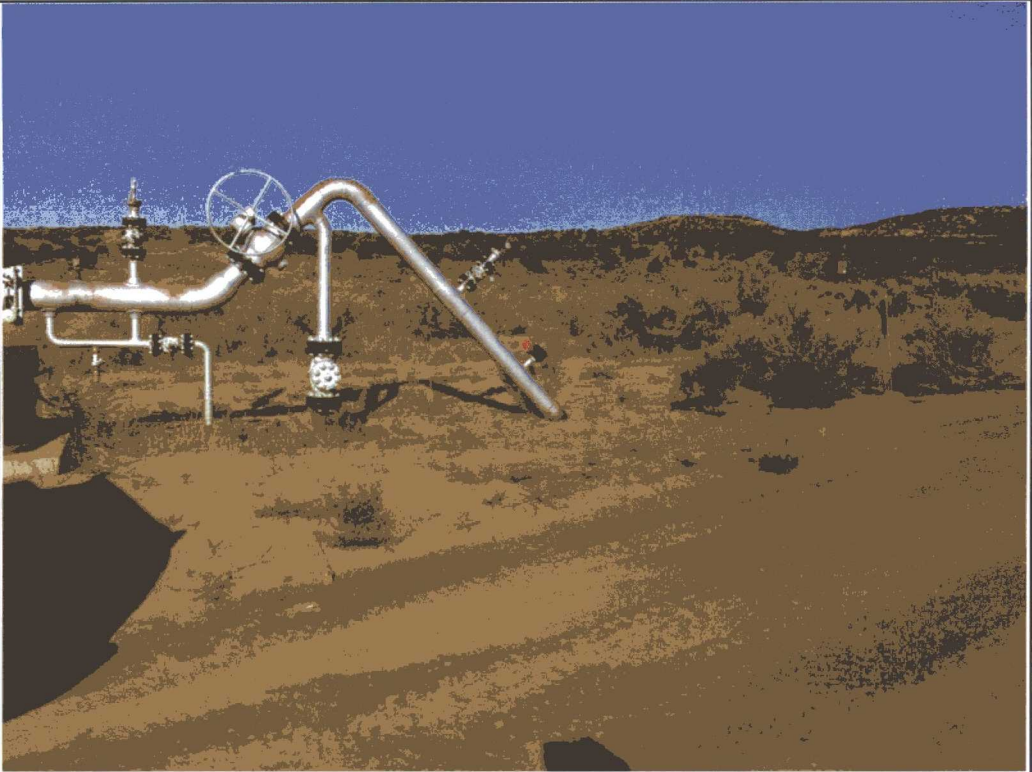
Photo #1	
Client: Enterprise Field Services, LLC	
Project: Lateral B-14 Pig Receiver	
Taken by: Tami Ross	
September 27, 2012	
AES Project No: 120923	Description: Lateral B-14 Pig Receiver


Photo #2	
Client: Enterprise Field Services, LLC	
Project: Lateral B-14 Pig Receiver	
Taken by: Tami Ross	
September 27, 2012	
AES Project No: 120923	Description: View to the north of surface staining.


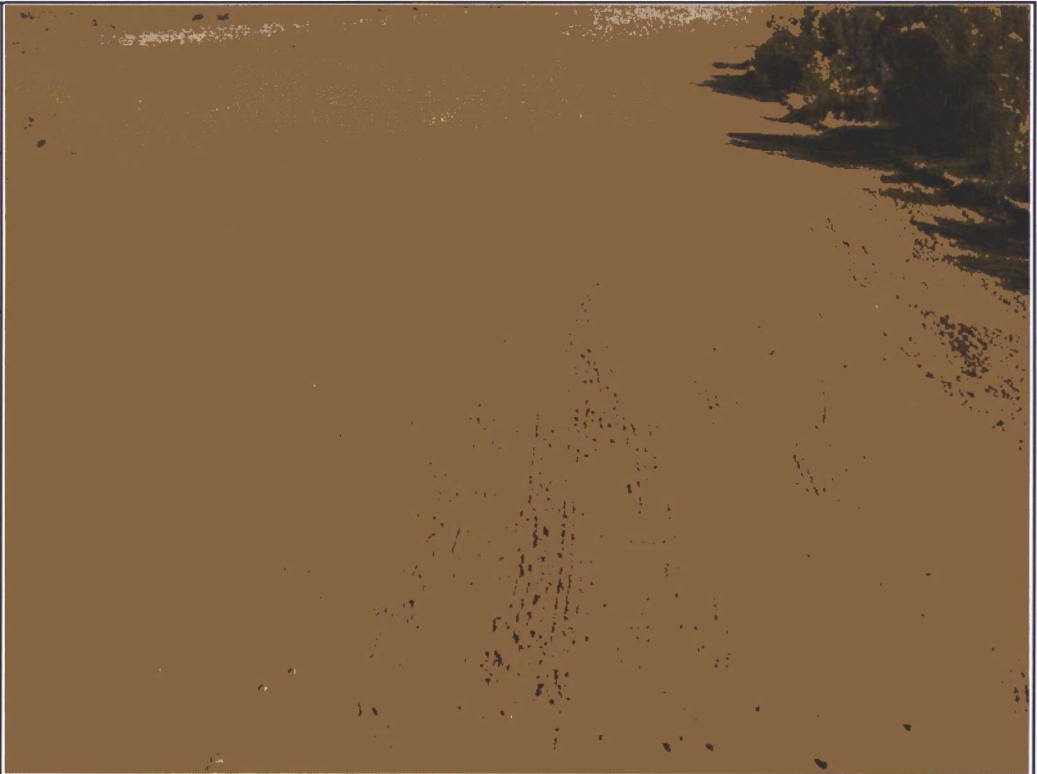
Photo #3	
Client: Enterprise Field Services, LLC	
Project: Lateral B-14 Pig Receiver	
Taken by: Tami Ross	
September 27, 2012	
AES Project No: 120923	Description: View to the south of surface staining.

Photo #4	
Client: Enterprise Field Services, LLC	
Project: Lateral B-14 Pig Receiver	
Taken by: Zachary Trujillo	
October 18, 2012	
AES Project No: 120923	Description: View to the north following application of Simple Green.



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

October 09, 2012

Tami Ross  
Animas Environmental Services  
624 East Comanche  
Farmington, NM 87401  
TEL: (505) 793-2072  
FAX

RE: Lateral B-14 Pig Reciever

OrderNo.: 1209D16

Dear Tami Ross:

Hall Environmental Analysis Laboratory received 8 sample(s) on 9/28/2012 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](http://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,

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

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1209D16

Date Reported: 10/9/2012

**CLIENT:** Animas Environmental Services

**Client Sample ID:** S-1

**Project:** Lateral B-14 Pig Reciever

**Collection Date:** 9/27/2012 9:45:00 AM

**Lab ID:** 1209D16-001

**Matrix:** SOIL

**Received Date:** 9/28/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: <b>JMP</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/2/2012 11:07:37 AM
Surr: DNOP	105	77.6-140		%REC	1	10/2/2012 11:07:37 AM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/30/2012 8:44:51 PM
Surr: BFB	94.5	84-116		%REC	1	9/30/2012 8:44:51 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.048		mg/Kg	1	9/30/2012 8:44:51 PM
Toluene	ND	0.048		mg/Kg	1	9/30/2012 8:44:51 PM
Ethylbenzene	ND	0.048		mg/Kg	1	9/30/2012 8:44:51 PM
Xylenes, Total	ND	0.097		mg/Kg	1	9/30/2012 8:44:51 PM
Surr: 4-Bromofluorobenzene	93.2	80-120		%REC	1	9/30/2012 8:44:51 PM

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- 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

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1209D16

Date Reported: 10/9/2012

**CLIENT:** Animas Environmental Services

**Client Sample ID:** S-2

**Project:** Lateral B-14 Pig Reciever

**Collection Date:** 9/27/2012 9:57:00 AM

**Lab ID:** 1209D16-002

**Matrix:** SOIL

**Received Date:** 9/28/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: <b>JMP</b>
Diesel Range Organics (DRO)	570	99		mg/Kg	10	10/2/2012 2:31:34 PM
Surr: DNOP	0	77.6-140	S	%REC	10	10/2/2012 2:31:34 PM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	10/3/2012 10:51:16 PM
Surr: BFB	101	84-116		%REC	5	10/3/2012 10:51:16 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.25		mg/Kg	5	10/3/2012 10:51:16 PM
Toluene	ND	0.25		mg/Kg	5	10/3/2012 10:51:16 PM
Ethylbenzene	ND	0.25		mg/Kg	5	10/3/2012 10:51:16 PM
Xylenes, Total	ND	0.49		mg/Kg	5	10/3/2012 10:51:16 PM
Surr: 4-Bromofluorobenzene	105	80-120		%REC	5	10/3/2012 10:51:16 PM

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- 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

**Analytical Report**Lab Order **1209D16**Date Reported: **10/9/2012****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Animas Environmental Services**Client Sample ID:** S-3**Project:** Lateral B-14 Pig Reciever**Collection Date:** 9/27/2012 10:03:00 AM**Lab ID:** 1209D16-003**Matrix:** SOIL**Received Date:** 9/28/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: <b>JMP</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/2/2012 11:50:56 AM
Surr: DNOP	109	77.6-140		%REC	1	10/2/2012 11:50:56 AM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	10	4.9		mg/Kg	1	10/3/2012 11:48:52 PM
Surr: BFB	129	84-116	S	%REC	1	10/3/2012 11:48:52 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.049		mg/Kg	1	10/3/2012 11:48:52 PM
Toluene	ND	0.049		mg/Kg	1	10/3/2012 11:48:52 PM
Ethylbenzene	ND	0.049		mg/Kg	1	10/3/2012 11:48:52 PM
Xylenes, Total	0.14	0.098		mg/Kg	1	10/3/2012 11:48:52 PM
Surr: 4-Bromofluorobenzene	108	80-120		%REC	1	10/3/2012 11:48:52 PM

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- 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

**Analytical Report**Lab Order **1209D16**Date Reported: **10/9/2012****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Animas Environmental Services**Client Sample ID:** S-4**Project:** Lateral B-14 Pig Reciever**Collection Date:** 9/27/2012 10:07:00 AM**Lab ID:** 1209D16-004**Matrix:** SOIL**Received Date:** 9/28/2012 10:00:00 AM

<b>Analyses</b>	<b>Result</b>	<b>RL</b>	<b>Qual</b>	<b>Units</b>	<b>DF</b>	<b>Date Analyzed</b>
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: <b>JMP</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/2/2012 12:12:42 PM
Surr: DNOP	105	77.6-140		%REC	1	10/2/2012 12:12:42 PM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	5.6	4.7		mg/Kg	1	10/4/2012 12:17:33 AM
Surr: BFB	118	84-116	S	%REC	1	10/4/2012 12:17:33 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.047		mg/Kg	1	10/4/2012 12:17:33 AM
Toluene	ND	0.047		mg/Kg	1	10/4/2012 12:17:33 AM
Ethylbenzene	ND	0.047		mg/Kg	1	10/4/2012 12:17:33 AM
Xylenes, Total	ND	0.094		mg/Kg	1	10/4/2012 12:17:33 AM
Surr: 4-Bromofluorobenzene	108	80-120		%REC	1	10/4/2012 12:17:33 AM

**Qualifiers:** \* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2

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

## Analytical Report

Lab Order 1209D16

Date Reported: 10/9/2012

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: S-5

Project: Lateral B-14 Pig Reciever

Collection Date: 9/27/2012 10:12:00 AM

Lab ID: 1209D16-005

Matrix: SOIL

Received Date: 9/28/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: <b>JMP</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/2/2012 12:34:23 PM
Surr: DNOP	109	77.6-140		%REC	1	10/2/2012 12:34:23 PM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	36	4.8		mg/Kg	1	10/4/2012 12:46:19 AM
Surr: BFB	238	84-116	S	%REC	1	10/4/2012 12:46:19 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.048		mg/Kg	1	10/4/2012 12:46:19 AM
Toluene	ND	0.048		mg/Kg	1	10/4/2012 12:46:19 AM
Ethylbenzene	0.061	0.048		mg/Kg	1	10/4/2012 12:46:19 AM
Xylenes, Total	0.12	0.096		mg/Kg	1	10/4/2012 12:46:19 AM
Surr: 4-Bromofluorobenzene	114	80-120		%REC	1	10/4/2012 12:46:19 AM

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- 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

**Analytical Report**Lab Order **1209D16**Date Reported: **10/9/2012****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Animas Environmental Services**Client Sample ID:** S-6 @ 1'**Project:** Lateral B-14 Pig Reciever**Collection Date:** 9/27/2012 10:52:00 AM**Lab ID:** 1209D16-006**Matrix:** SOIL**Received Date:** 9/28/2012 10:00:00 AM

<b>Analyses</b>	<b>Result</b>	<b>RL</b>	<b>Qual</b>	<b>Units</b>	<b>DF</b>	<b>Date Analyzed</b>
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						<b>Analyst: JMP</b>
Diesel Range Organics (DRO)	25	10		mg/Kg	1	10/2/2012 1:02:29 PM
Surr: DNOP	110	77.6-140		%REC	1	10/2/2012 1:02:29 PM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						<b>Analyst: NSB</b>
Gasoline Range Organics (GRO)	5.5	5.0		mg/Kg	1	10/4/2012 1:15:01 AM
Surr: BFB	132	84-116	S	%REC	1	10/4/2012 1:15:01 AM
<b>EPA METHOD 8021B: VOLATILES</b>						<b>Analyst: NSB</b>
Benzene	ND	0.050		mg/Kg	1	10/4/2012 1:15:01 AM
Toluene	ND	0.050		mg/Kg	1	10/4/2012 1:15:01 AM
Ethylbenzene	ND	0.050		mg/Kg	1	10/4/2012 1:15:01 AM
Xylenes, Total	ND	0.10		mg/Kg	1	10/4/2012 1:15:01 AM
Surr: 4-Bromofluorobenzene	110	80-120		%REC	1	10/4/2012 1:15:01 AM

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- 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

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1209D16

Date Reported: 10/9/2012

**CLIENT:** Animas Environmental Services

**Client Sample ID:** S-7

**Project:** Lateral B-14 Pig Reciever

**Collection Date:** 9/27/2012 10:18:00 AM

**Lab ID:** 1209D16-007

**Matrix:** SOIL

**Received Date:** 9/28/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: <b>JMP</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/2/2012 1:24:18 PM
Surr: DNOP	108	77.6-140		%REC	1	10/2/2012 1:24:18 PM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/1/2012 2:29:55 AM
Surr: BFB	98.9	84-116		%REC	1	10/1/2012 2:29:55 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.050		mg/Kg	1	10/1/2012 2:29:55 AM
Toluene	ND	0.050		mg/Kg	1	10/1/2012 2:29:55 AM
Ethylbenzene	ND	0.050		mg/Kg	1	10/1/2012 2:29:55 AM
Xylenes, Total	ND	0.099		mg/Kg	1	10/1/2012 2:29:55 AM
Surr: 4-Bromofluorobenzene	97.2	80-120		%REC	1	10/1/2012 2:29:55 AM

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- 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

**Analytical Report**Lab Order **1209D16**Date Reported: **10/9/2012****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Animas Environmental Services**Client Sample ID:** S-8**Project:** Lateral B-14 Pig Reciever**Collection Date:** 9/27/2012 10:20:00 AM**Lab ID:** 1209D16-008**Matrix:** SOIL**Received Date:** 9/28/2012 10:00:00 AM

<b>Analyses</b>	<b>Result</b>	<b>RL</b>	<b>Qual</b>	<b>Units</b>	<b>DF</b>	<b>Date Analyzed</b>
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: <b>JMP</b>
Diesel Range Organics (DRO)	58	9.9		mg/Kg	1	10/2/2012 1:46:02 PM
Surr: DNOP	118	77.6-140		%REC	1	10/2/2012 1:46:02 PM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	22	9.9		mg/Kg	2	10/4/2012 2:12:27 AM
Surr: BFB	163	84-116	S	%REC	2	10/4/2012 2:12:27 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.099		mg/Kg	2	10/4/2012 2:12:27 AM
Toluene	ND	0.099		mg/Kg	2	10/4/2012 2:12:27 AM
Ethylbenzene	ND	0.099		mg/Kg	2	10/4/2012 2:12:27 AM
Xylenes, Total	0.27	0.20		mg/Kg	2	10/4/2012 2:12:27 AM
Surr: 4-Bromofluorobenzene	109	80-120		%REC	2	10/4/2012 2:12:27 AM

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- 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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1209D16

09-Oct-12

Client: Animas Environmental Services

Project: Lateral B-14 Pig Reciever

Sample ID	MB-4010	SampType:	MBLK	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	PBS	Batch ID:	4010	RunNo:	5903					
Prep Date:	10/1/2012	Analysis Date:	10/2/2012	SeqNo:	170050	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	10		10.00		103	77.6	140			

Sample ID	LCS-4010	SampType:	LCS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	4010	RunNo:	5903					
Prep Date:	10/1/2012	Analysis Date:	10/2/2012	SeqNo:	170051	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	90.7	52.6	130			
Surr: DNOP	4.3		5.000		86.8	77.6	140			

### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- 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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1209D16

09-Oct-12

Client: Animas Environmental Services

Project: Lateral B-14 Pig Reciever

Sample ID	MB-4004	SampType: MBLK			TestCode: EPA Method 8015B: Gasoline Range					
Client ID:	PBS	Batch ID: 4004			RunNo: 5859					
Prep Date:	9/29/2012	Analysis Date: 9/30/2012			SeqNo: 168574		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

970

1000

97.0

84

116

Sample ID	LCS-4004	SampType:	LCS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	LCSS	Batch ID:	4004	RunNo:	5859					
Prep Date:	9/29/2012	Analysis Date:	9/30/2012	SeqNo:	168575	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO)

24

5.0

25.00

0

95.6

74

117

Surr: BFB

1000

1000

99.8

84

116

### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- 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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1209D16

09-Oct-12

Client: Animas Environmental Services

Project: Lateral B-14 Pig Reciever

Sample ID	<b>MB-4004</b>		SampType:	<b>MBLK</b>		TestCode:	<b>EPA Method 8021B: Volatiles</b>			
Client ID:	<b>PBS</b>		Batch ID:	<b>4004</b>		RunNo:	<b>5859</b>			
Prep Date:	<b>9/29/2012</b>		Analysis Date:	<b>9/30/2012</b>		SeqNo:	<b>168614</b>		Units: <b>mg/Kg</b>	
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		97.4	80	120			

Sample ID	<b>LCS-4004</b>		SampType:	<b>LCS</b>		TestCode:	<b>EPA Method 8021B: Volatiles</b>			
Client ID:	<b>LCSS</b>		Batch ID:	<b>4004</b>		RunNo:	<b>5859</b>			
Prep Date:	<b>9/29/2012</b>		Analysis Date:	<b>9/30/2012</b>		SeqNo:	<b>168615</b>		Units: <b>mg/Kg</b>	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.050	1.000	0	96.3	76.3	117			
Toluene	0.99	0.050	1.000	0	98.7	80	120			
Ethylbenzene	0.99	0.050	1.000	0	99.1	77	116			
Xylenes, Total	3.0	0.10	3.000	0	101	76.7	117			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	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

- 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

## Sample Log-In Check List

Client Name: Animas Environmental

Work Order Number: 1209D16

Received by/date: [Signature] 09/28/12

Logged By: Lindsay Mangin 9/28/2012 10:00:00 AM [Signature]

Completed By: Lindsay Mangin 9/28/2012 11:10:28 AM [Signature]

Reviewed By: [Signature] 09/28/12

### Chain of Custody

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

### Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA ☐
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
6. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
11. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved  
bottles checked  
for pH:

( $<2$  or  $>12$  unless noted)

Adjusted? \_\_\_\_\_

Checked by: \_\_\_\_\_

### Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: \_\_\_\_\_

Date: \_\_\_\_\_

By Whom: \_\_\_\_\_

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: \_\_\_\_\_

Client Instructions: \_\_\_\_\_

18. Additional remarks:

### 19. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.5	Good	Yes			

Client: Animas Environmental

Mailing Address: 624 E Comanche  
Farmington NM 87401  
Phone #: 505 564 2281  
Email or Fax#: 505 324 2022

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other \_\_\_\_\_

☐ EDD (Type) \_\_\_\_\_

☒ Standard ☐ Rush

Lateral B-14 Pig Receiver	
Project #:	

**Project Manager:**

**Sampler:**

On Ice: ☒ Yes ☐ No

Sample Temperature 21.5

[illegible]

Date:	Time:	Relinquished by:	Received by:	Date	Time
2/7/12	16:59	Jami Ross	Christine Warden	9/27/12	16:59
Date:	Time:	Relinquished by:	Received by:	Date	Time
2/7/12	17:17	Christine Warden	[Signature]	9/28/12	10:00

## HALL ENVIRONMENTAL ANALYSIS LABORATORY

[www.hallenvironmental.com](http://www.hallenvironmental.com)

4901 Hawkins NE - Albuquerque, NM 87109

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

## Analysis Request

[illegible]

Remarks:	BILL TO ENTERPRISE PRODUCTS COMPANY
----------	-------------------------------------

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

Name of Company Enterprise Field Services, LLC	Contact Aaron Dailey	
Address 614 Reilly Avenue, Farmington, NM 87401	Telephone No. (505) 599-2286	
Facility Name San Juan 27-5 # 133	Facility Type Natural Gas Gathering Pipeline	
Surface Owner Private	Mineral Owner Federal	API No.

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	14	27N	6W					OIL CONS. DIV DIST. 3

Latitude\_N 36.57876 Longitude\_W-107.42912 (decimal degrees) FEB 19 2013

**NATURE OF RELEASE**


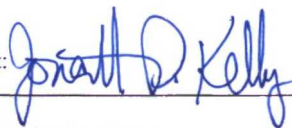
Type of Release Natural Gas	Volume of Release Unknown	Volume Recovered 249 cubic yards of contaminated soil removed and disposed of at OCD permitted land farm facility
Source of Release 4" natural gas gathering line	Date and Hour of Occurrence Initial leak location discovered on 12/3/2012 @ 10:15 hours	Date and Hour of Discovery Initial leak location discovered on 12/3/2012 @ 10:15 hours
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\* A foreign operator was headed to location when he noticed gas leaking along with moisture on the right of way. He notified the measurement department who then notified the area Supervisor. Technicians were dispatched to investigate the site and found the ground wet and gas venting from the soil. Technicians isolated and blew line down and applied lock out / tag out. Enterprise environmental department was notified at that time.

Describe Area Affected and Cleanup Action Taken.\* A third party environmental contractor was dispatched to work with dirt work contractor to obtain environmental site closure standards using dig and haul techniques. Please find third party environmental corrective action report 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 federal, state, or local laws and/or regulations.

Signature: 		<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Matt Marra		Approved by Environmental Specialist: 	
Title: Sr. Director, Environmental		Approval Date: 4/25/2013	Expiration Date:
E-mail Address: memarra@eprod.com		Conditions of Approval:	Attached <input type="checkbox"/>
Date: 2-13-2013 Phone: (713) 381-6684			

\* Attach Additional Sheets If Necessary

NR1311546776

**RELEASE REPORT**

**SAN JUAN 27-5 #133**

**SAN JUAN COUNTY,  
NEW MEXICO**

**January 29, 2013**

**OIL CONS. DIV DIST. 3**

**FEB 19 2013**

**SMA #5122104**

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



Depth to Groundwater	NMOCD Numeric Rank for this Site	Source for Ranking	Notes
< 50 BGS = 20	20	USGS Topo Maps; Google Earth	Release is approximately 15 feet in elevation above Carrizo Wash
50' to 99' = 10			
>100' = 0			
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 Earth	Release is located approximately 330' east of Carrizo Wash
200'-1000' = 10	10		
>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?	0	NM State Engineer Water Well Database	No well in Sections 11, 12, 13 or 14
<200' for a private domestic water source? YES OR NO to BOTH. YES = 20, NO = 0			
<b>Total Site Ranking</b>	<b>30</b>		
<b>Soil Remediation Standards</b>	<b>0 to 9</b>	<b>10 to 19</b>	<b>&gt;19</b>
<b>Benzene</b>	10 PPM	10 PPM	10 PPM
<b>BTEX</b>	50 PPM	50 PPM	50 PPM
<b>TPH</b>	5000 PPM	1000 PPM	100 PPM



RELEASE INFORMATION				
Name	San Juan 27-5 #133			
Release Location	Latitude = 36.57876	Longitude = -107.42912		
	NE 1/4 NE 1/4 Section 14	Township 27N	Range 6 W	
	San Juan County			
Date Reported	December 4, 2012			
Reported by	Aaron Dailey			
Land Owner	Private			
Regulatory Authority	NMOC			
Reported to	NMOC			
Enterprise Representative	Richard Martinelli			
Source of Release	Rupture due to internal corrosion of a 3" natural gas pipeline			
Release Contents	Condensate/Natural Gas Liquids			
Release Volume	Unknown			
Nearest Waterway	Carrizo Wash approximately 330' to the west			
SMA Response Date(s)	12/6/12, 12/7/12, 12/11/12, 12/12/12			
Sub-contractor(s)	Foutz & Bursum			
Soil Disposal Facility	Envirotech Landfarm			
Total Cubic Yards Removed	249 Cubic Yards			

**RELEASE RESPONSE SUMMARY**

**Response Activities:** On December 6, 2012, Souder, Miller & Associates (SMA) responded to a release at the San Juan 27-5 #133 well tie. The site location is illustrated in Figure 1. The release was a result of internal corrosion of the natural gas pipeline. SMA advanced nine soil borings to various depths using a hand auger. Soil samples were collected at one foot intervals and field screened using a calibrated photo ionization detection (PID). Field screening was used to delineate both the horizontal and lateral extent of the release. The release migrated down into the soils and an excavation was necessary to remove contamination at depth. The location of the soil borings are illustrated in Figure 2 and field screening results are included in the attached table.

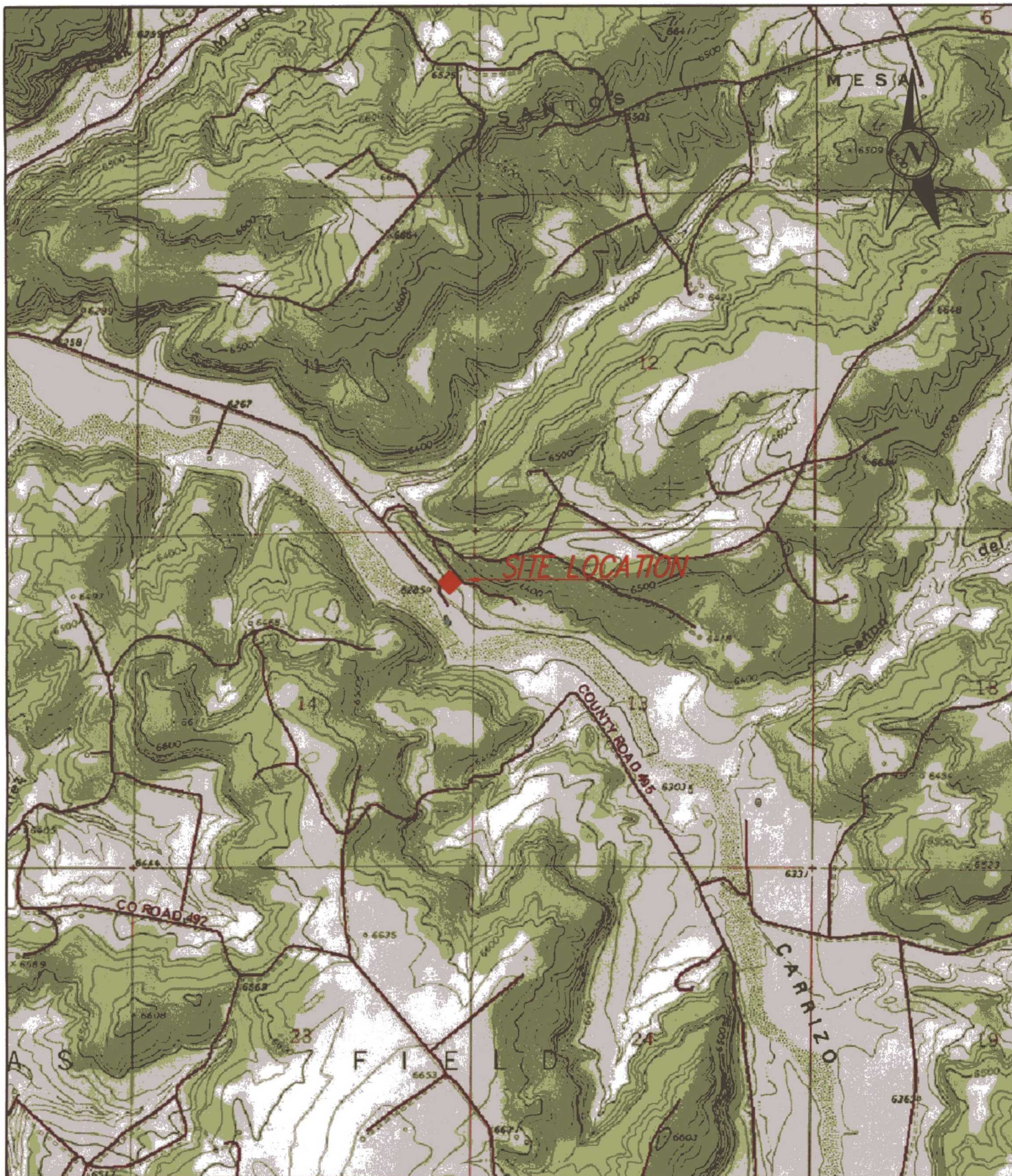
On December 7, 2012, December 11, 2012 and December 12, 2012, SMA guided the excavation activities by field screening soil samples with a PID and collecting composite soil samples for laboratory analysis. The final excavation dimensions measured approximately 48 feet long by 16 feet wide by 10 feet deep. A total of eight composite soil samples were collected for laboratory analysis. Figure 3 illustrates the excavation dimensions and composite soil sample locations.

**Laboratory Analysis:** All soil samples were analyzed per United States Environmental Protection Agency (USEPA) Methods 8021 Benzene, Toluene, Ethyl-Benzene, and Xylenes (BTEX) and 8015 Gasoline Range Organics/Diesel Range Organics. Laboratory analysis is illustrated in Figure 2 and in the attached table. Laboratory analytical reports are included as an attachment.

Laboratory analysis indicated that all soil samples collected are below regulatory standards for contaminants of concern. A total of 249 cubic yards of hydrocarbon contaminated soil was transported by Foutz & Bursum and its subcontractor to Envirotech Landfarm near Bloomfield, New Mexico for proper disposal. Bills of Lading are included as an attachment.

**Recommendation:** SMA recommends that no further action is needed at this site.





SCALE

0' 1000' 2000' 4000'

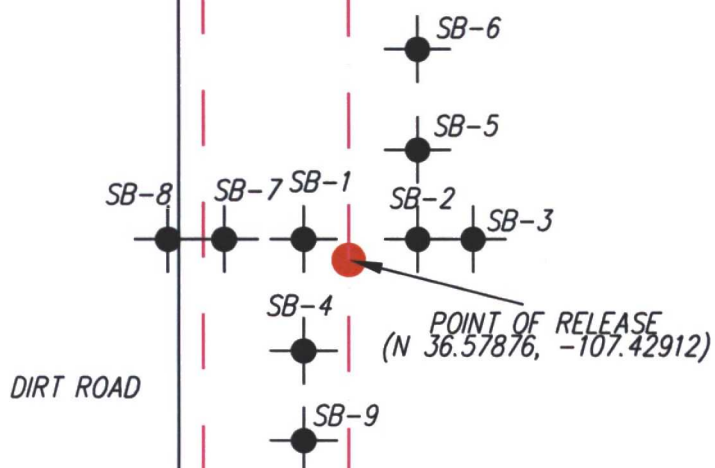


2101 SAN JUAN BLVD  
FARMINGTON, NM 87401

FAX (505) 327-1496  
PH. (505) 325-6667

APPROVED: RSA	DATE: 12/14/2012
DRAWN BY: TLONG	DATE: 12/14/2012
REVISIONS BY:	DATE:
PROJECT # 5122104	FIGURE: 1

VICINITY MAP  
LATERAL SAN JUAN 27-5 #133  
RELEASE SITE  
NE 1/4 NE 1/4 SECTION 14 T27N R6W  
SAN JUAN COUNTY, NEW MEXICO



LEGEND:



2101 SAN JUAN BLVD  
FARMINGTON, NM 87401

FAX (505) 327-1496  
PH. (505) 325-5667

APPROVED: RSA

DRAWN BY: TLONG

REVISIONS BY:

PROJECT # 5122104

DATE: 12/17/2012

DATE: 12/17/2012

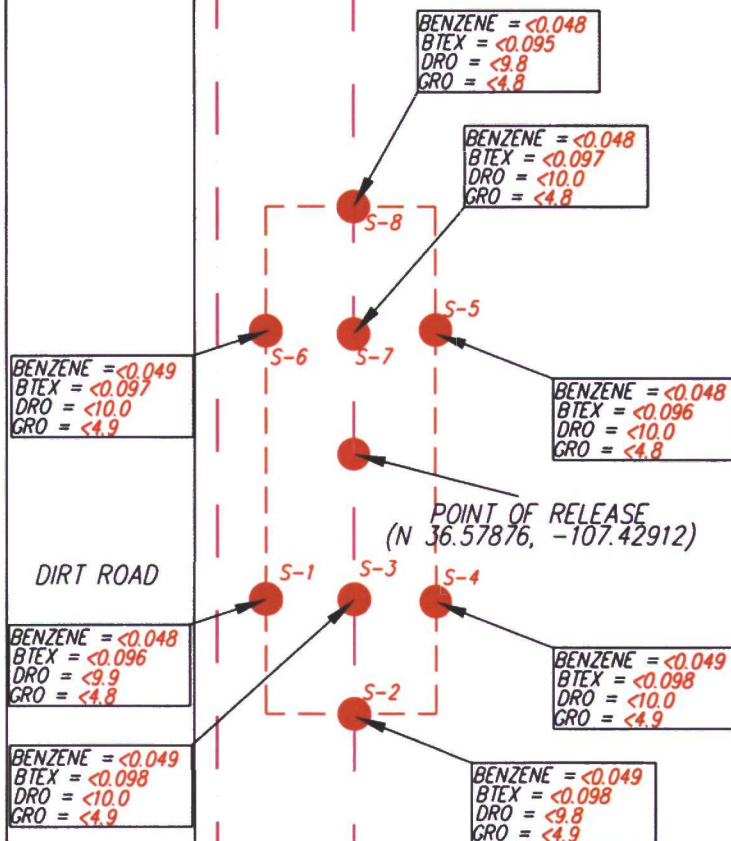
DATE:

FIGURE: 2

SITE MAP AND SOIL BORING LOCATION MAP  
LATERAL SAN JUAN 27-5 #133  
NE 1/4 NE 1/4 SECTION 14 T27N R6W  
SAN JUAN COUNTY, NEW MEXICO

ENTERPRISE PIPELINE

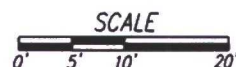
SAN JUAN 27-5 #133 3" WELL TIE



DIRT ROAD

LEGEND:

- S-1 - SOIL SAMPLE LOCATION (5-POINT COMPOSITE)
- - EXTENT OF EXCAVATION



2101 SAN JUAN BLVD  
FARMINGTON, NM 87401  
FAX (505) 327-1496  
PH. (505) 325-5667

APPROVED: RSA	DATE: 12/17/2012
DRAWN BY: TLONG	DATE: 12/17/2012
REVISIONS BY: SJM	DATE: 1/3/13
PROJECT # 5122104	FIGURE: 3

SOIL CONTAMINANT CONCENTRATION MAP  
LATERAL SAN JUAN 27-5 #133  
NE 1/4 NE 1/4 SECTION 14 T27N R6W  
SAN JUAN COUNTY, NEW MEXICO

FIELD SCREENING RESULTS SUMMARY						
Date	Time	Field Screening Reference	Sample Depth (Feet BGS)	PID Results	Petro Flag Results	Lab Sample Collected Y/N
12/6/2012	10:58	SB-1	Surface	135.0	N/A	N
12/6/2012	10:59	SB-1	1	2063.0	N/A	N
12/6/2012		SB-1	2**	NS	N/A	N
12/6/2012	11:00	SB-2	Surface	1113.0	N/A	N
12/6/2012	11:01	SB-2	1	1117.0	N/A	N
12/6/2012		SB-2	2**	NS	N/A	N
12/6/2012	11:02	SB-3	Surface	28.1	N/A	N
12/6/2012	11:03	SB-3	1	75.5	N/A	N
12/6/2012	11:04	SB-3	2	77.1	N/A	N
12/6/2012	11:05	SB-3	3**	223.0	N/A	N
12/6/2012	11:06	SB-4	Surface	54.3	N/A	N
12/6/2012	11:07	SB-4	1	152.7	N/A	N
12/6/2012	11:08	SB-4	2	215.7	N/A	N
12/6/2012	11:09	SB-4	3**	197.5	N/A	N
12/6/2012	11:10	SB-5	Surface	984.5	N/A	N
12/6/2012	11:11	SB-5	1**	886.2	N/A	N
12/6/2012	11:14	SB-6	Surface	273.7	N/A	N
12/6/2012	11:15	SB-6	1	136.1	N/A	N
12/6/2012	11:16	SB-6	2**	104.6	N/A	N
12/6/2012	11:18	SB-7	Surface	196.3	N/A	N
12/6/2012	11:19	SB-7	1	222.3	N/A	N
12/6/2012	11:20	SB-7	2**	347.1	N/A	N
12/6/2012	11:31	SB-8	Surface	20.6	N/A	N
12/6/2012	11:32	SB-8	1	123.8	N/A	N
12/6/2012	11:33	SB-8	2	195.4	N/A	N
12/6/2012	11:34	SB-8	3**	131.6	N/A	N
12/6/2012	11:51	SB-9	Surface	197.7	N/A	N
12/6/2012	11:52	SB-9	1	226.1	N/A	N
12/6/2012	11:53	SB-9	2	195.2	N/A	N
12/6/2012	11:54	SB-9	3**	260.3	N/A	N
12/11/2012	10:05	North Wall (FS-1)	0 to 10	104.0	N/A	N
12/11/2012	10:06	South Wall (FS-2)	0 to 10	10.5	N/A	N
12/11/2012	10:07	East Wall (FS-3)	0 to 10	1390.0	N/A	N
12/11/2012	10:08	West Wall (FS-4)	0 to 10	982.0	N/A	N
12/11/2012	10:09	Base	6	2413.0	N/A	N
12/12/2012	11:17	Southeast Base (FS-6)	10	61.6	N/A	N
12/12/2012	11:23	Southeast Wall (FS-7)	1 to 10	117.1	N/A	N
12/12/2012	12:11	Southwest Wall (FS-8)	1 to 10	128.0	N/A	Y
12/12/2012	12:12	Southwest Wall (FS-9)	1 to 10	102.0	N/A	N
12/12/2012	12:23	South Wall	1 to 10	123.0	N/A	Y
12/12/2012	12:28	South Base	10	58.0	N/A	Y
12/12/2012	12:30	Southeast Base (FS-10)	10	97.0	N/A	N
12/12/2012	12:35	Southeast Wall	1 to 10	64.0	N/A	Y
12/12/2012	12:54	Northeast Wall (FS-11)	1 to 10	767.0	N/A	N
12/12/2012	13:30	Northeast Wall (FS-12)	1 to 10	129.0	N/A	Y
12/12/2012	13:34	Northwest Wall (FS-13)	1 to 10	113.0	N/A	Y
12/12/2012	14:44	North Base (FS-14)	10	127.0	N/A	Y
12/12/2012	15:19	North Wall (FS-15)	1 to 10	111.0	N/A	Y

\*POR = Point of Release

\*\* = Auger Refusal

FS= Field Sample

LABORATORY ANALYTICAL SUMMARY							
Date	Time	Sample ID	Sample Depth (Feet BGS) (mg/Kg)	Method 8015 GRO (mg/Kg)	Method 8015 DRO (mg/Kg)	Method 8021 Benzene (mg/Kg)	Method 8021 BTEX (mg/Kg)
12/12/2012	12:11	Southwest Wall (S-1)	1 to 10	<4.8	<9.9	<0.048	<0.096
12/12/2012	12:23	South Wall (S-2)	1 to 10	<4.9	<9.8	<0.049	<0.098
12/12/2012	12:28	South Base (S-3)	10	<4.9	<10.0	<0.049	<0.098
12/12/2012	12:35	Southeast Wall (S-4)	1 to 10	<4.9	<9.9	<0.049	<0.099
12/12/2012	13:30	Northeast Wall (S-5)	1 to 10	<4.8	<10.0	<0.048	<0.096
12/12/2012	13:34	Northwest Wall (S-6)	1 to 10	<4.9	<10.0	<0.049	<0.097
12/12/2012	14:44	North Base (S-7)	10	<4.8	<10.0	<0.048	<0.26
12/12/2012	15:19	North Wall (S-8)	1 to 10	<4.8	<9.8	<0.048	<0.095

**Site Photographs**  
**Enterprise Products San Juan 27-5 #133 Release Site**



Photo 1: View of the release area for the San Juan 27-5 #133 well tie.

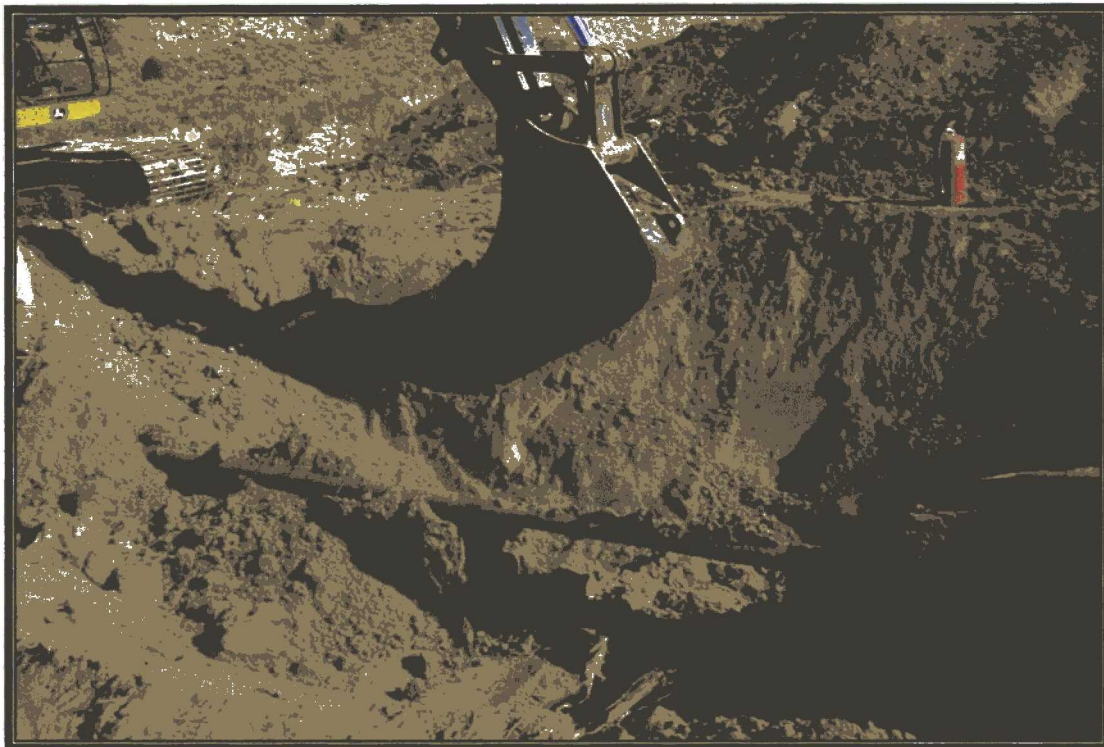


Photo 2: View of the excavation around the San Juan 27-5 #133 well tie.

**Site Photographs**  
**Enterprise Products San Juan 27-5 #133 Release Site**

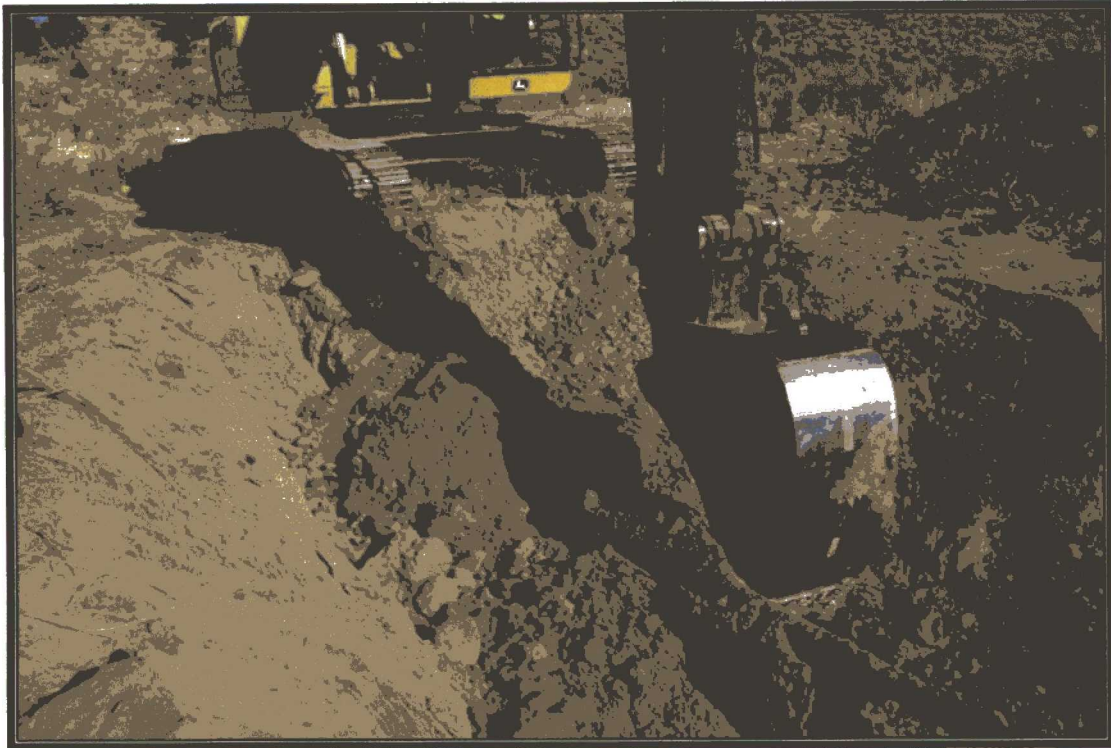


Photo 3: View of the excavation activities for the San Juan 27-5 #133 well tie.

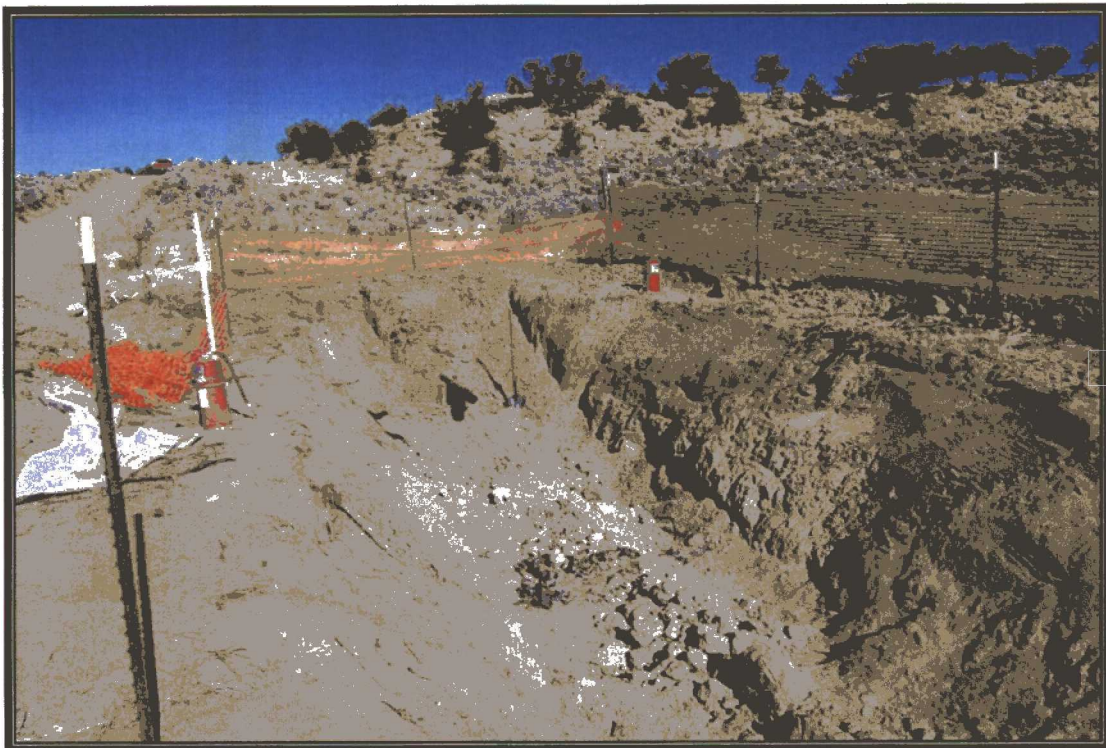


Photo 4: View of the excavation for the San Juan 27-5 #133 well tie after the pipeline was removed.

**Site Photographs**  
**Enterprise Products San Juan 27-5 #133 Release Site**



Photo 5: View of the internal corrosion hole in the removed section of pipeline.

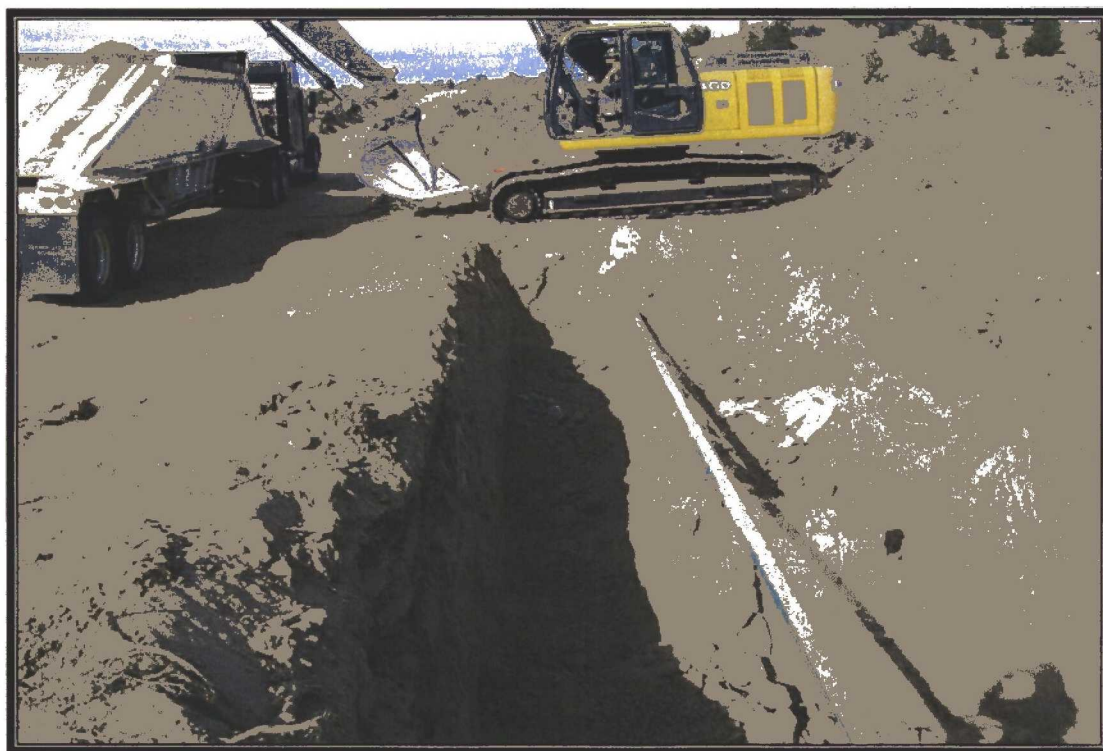


Photo 6: View of the excavation after the pipeline repair was completed.

**Site Photographs**  
**Enterprise Products San Juan 27-5 #133 Release Site**



**Photo 7: View of backfilling activities after the completion of excavation activities.**



**Photo 8: View of backfilling activities after the completion of excavation activities.**



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

December 26, 2012

Thomas Long  
Souder, Miller and Associates  
2101 San Juan Boulevard  
Farmington, NM 87401  
TEL: (505) 325-7535  
FAX (505) 327-1496

RE: Enterprise SJ 27-5 #133

OrderNo.: 1212667

Dear Thomas Long:

Hall Environmental Analysis Laboratory received 8 sample(s) on 12/14/2012 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](http://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,

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

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Analytical Report**

Lab Order 1212667

Date Reported: 12/26/2012

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Souder, Miller and Associates**Client Sample ID:** Southwest Wall (S-1)**Project:** Enterprise SJ 27-5 #133**Collection Date:** 12/12/2012 12:11:00 PM**Lab ID:** 1212667-001**Matrix:** SOIL**Received Date:** 12/14/2012 10:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: <b>MMD</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/20/2012 6:39:11 PM
Surr: DNOP	85.3	72.4-120		%REC	1	12/20/2012 6:39:11 PM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/19/2012 6:33:36 PM
Surr: BFB	97.0	84-116		%REC	1	12/19/2012 6:33:36 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.048		mg/Kg	1	12/19/2012 6:33:36 PM
Toluene	ND	0.048		mg/Kg	1	12/19/2012 6:33:36 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/19/2012 6:33:36 PM
Xylenes, Total	ND	0.096		mg/Kg	1	12/19/2012 6:33:36 PM
Surr: 4-Bromofluorobenzene	103	80-120		%REC	1	12/19/2012 6:33:36 PM

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- 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

**Analytical Report**

Lab Order 1212667

Date Reported: 12/26/2012

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Souder, Miller and Associates**Client Sample ID:** South Wall (S-2)**Project:** Enterprise SJ 27-5 #133**Collection Date:** 12/12/2012 12:23:00 PM**Lab ID:** 1212667-002**Matrix:** SOIL**Received Date:** 12/14/2012 10:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: <b>MMD</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	12/20/2012 7:00:53 PM
Surr: DNOP	88.9	72.4-120		%REC	1	12/20/2012 7:00:53 PM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/19/2012 1:04:36 AM
Surr: BFB	98.8	84-116		%REC	1	12/19/2012 1:04:36 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.049		mg/Kg	1	12/19/2012 1:04:36 AM
Toluene	ND	0.049		mg/Kg	1	12/19/2012 1:04:36 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/19/2012 1:04:36 AM
Xylenes, Total	ND	0.098		mg/Kg	1	12/19/2012 1:04:36 AM
Surr: 4-Bromofluorobenzene	101	80-120		%REC	1	12/19/2012 1:04:36 AM

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- 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

**Analytical Report**

Lab Order 1212667

Date Reported: 12/26/2012

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Souder, Miller and Associates**Client Sample ID:** South base @ 10' (S-3)**Project:** Enterprise SJ 27-5 #133**Collection Date:** 12/12/2012 12:28:00 PM**Lab ID:** 1212667-003**Matrix:** SOIL**Received Date:** 12/14/2012 10:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: <b>MMD</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/20/2012 7:22:31 PM
Surr: DNOP	89.1	72.4-120		%REC	1	12/20/2012 7:22:31 PM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/19/2012 1:33:24 AM
Surr: BFB	96.8	84-116		%REC	1	12/19/2012 1:33:24 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.049		mg/Kg	1	12/19/2012 1:33:24 AM
Toluene	ND	0.049		mg/Kg	1	12/19/2012 1:33:24 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/19/2012 1:33:24 AM
Xylenes, Total	ND	0.098		mg/Kg	1	12/19/2012 1:33:24 AM
Surr: 4-Bromofluorobenzene	99.9	80-120		%REC	1	12/19/2012 1:33:24 AM

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- 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

**Analytical Report**

Lab Order 1212667

Date Reported: 12/26/2012

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Souder, Miller and Associates**Client Sample ID:** Southeast Wall (S-4)**Project:** Enterprise SJ 27-5 #133**Collection Date:** 12/12/2012 12:35:00 PM**Lab ID:** 1212667-004**Matrix:** SOIL**Received Date:** 12/14/2012 10:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: <b>MMD</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/20/2012 7:44:10 PM
Surr: DNOP	90.7	72.4-120		%REC	1	12/20/2012 7:44:10 PM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/19/2012 12:19:28 PM
Surr: BFB	91.5	84-116		%REC	1	12/19/2012 12:19:28 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.049		mg/Kg	1	12/19/2012 12:19:28 PM
Toluene	ND	0.049		mg/Kg	1	12/19/2012 12:19:28 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/19/2012 12:19:28 PM
Xylenes, Total	ND	0.099		mg/Kg	1	12/19/2012 12:19:28 PM
Surr: 4-Bromofluorobenzene	101	80-120		%REC	1	12/19/2012 12:19:28 PM

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- 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

**Analytical Report**

Lab Order 1212667

Date Reported: 12/26/2012

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Souder, Miller and Associates**Client Sample ID:** Northeast Wall (S-5)**Project:** Enterprise SJ 27-5 #133**Collection Date:** 12/12/2012 1:30:00 PM**Lab ID:** 1212667-005**Matrix:** SOIL**Received Date:** 12/14/2012 10:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: <b>MMD</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/20/2012 8:05:45 PM
Surr: DNOP	92.1	72.4-120		%REC	1	12/20/2012 8:05:45 PM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/19/2012 12:48:13 PM
Surr: BFB	93.2	84-116		%REC	1	12/19/2012 12:48:13 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.048		mg/Kg	1	12/19/2012 12:48:13 PM
Toluene	ND	0.048		mg/Kg	1	12/19/2012 12:48:13 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/19/2012 12:48:13 PM
Xylenes, Total	ND	0.096		mg/Kg	1	12/19/2012 12:48:13 PM
Surr: 4-Bromofluorobenzene	100	80-120		%REC	1	12/19/2012 12:48:13 PM

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- 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

**Analytical Report**

Lab Order 1212667

Date Reported: 12/26/2012

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Souder, Miller and Associates**Client Sample ID:** Northwest Wall (S-6)**Project:** Enterprise SJ 27-5 #133**Collection Date:** 12/12/2012 1:34:00 PM**Lab ID:** 1212667-006**Matrix:** SOIL**Received Date:** 12/14/2012 10:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: <b>MMD</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/20/2012 8:27:27 PM
Surr: DNOP	87.4	72.4-120		%REC	1	12/20/2012 8:27:27 PM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/19/2012 1:45:44 PM
Surr: BFB	94.9	84-116		%REC	1	12/19/2012 1:45:44 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.049		mg/Kg	1	12/19/2012 1:45:44 PM
Toluene	ND	0.049		mg/Kg	1	12/19/2012 1:45:44 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/19/2012 1:45:44 PM
Xylenes, Total	ND	0.097		mg/Kg	1	12/19/2012 1:45:44 PM
Surr: 4-Bromofluorobenzene	103	80-120		%REC	1	12/19/2012 1:45:44 PM

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- 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

**Analytical Report**

Lab Order 1212667

Date Reported: 12/26/2012

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Souder, Miller and Associates**Client Sample ID:** North Base @ 10' (S-7)**Project:** Enterprise SJ 27-5 #133**Collection Date:** 12/12/2012 2:44:00 PM**Lab ID:** 1212667-007**Matrix:** SOIL**Received Date:** 12/14/2012 10:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: <b>MMD</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/20/2012 9:31:57 PM
Surr: DNOP	86.7	72.4-120		%REC	1	12/20/2012 9:31:57 PM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/19/2012 2:14:36 PM
Surr: BFB	96.1	84-116		%REC	1	12/19/2012 2:14:36 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.048		mg/Kg	1	12/19/2012 2:14:36 PM
Toluene	ND	0.048		mg/Kg	1	12/19/2012 2:14:36 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/19/2012 2:14:36 PM
Xylenes, Total	0.26	0.096		mg/Kg	1	12/19/2012 2:14:36 PM
Surr: 4-Bromofluorobenzene	101	80-120		%REC	1	12/19/2012 2:14:36 PM

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- 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

**Analytical Report**

Lab Order 1212667

Date Reported: 12/26/2012

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Souder, Miller and Associates**Client Sample ID:** North Wall (S-8)**Project:** Enterprise SJ 27-5 #133**Collection Date:** 12/12/2012 3:19:00 PM**Lab ID:** 1212667-008**Matrix:** SOIL**Received Date:** 12/14/2012 10:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: <b>MMD</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	12/20/2012 10:58:30 PM
Surr: DNOP	85.1	72.4-120		%REC	1	12/20/2012 10:58:30 PM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/19/2012 3:12:10 PM
Surr: BFB	92.9	84-116		%REC	1	12/19/2012 3:12:10 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.048		mg/Kg	1	12/19/2012 3:12:10 PM
Toluene	ND	0.048		mg/Kg	1	12/19/2012 3:12:10 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/19/2012 3:12:10 PM
Xylenes, Total	ND	0.095		mg/Kg	1	12/19/2012 3:12:10 PM
Surr: 4-Bromofluorobenzene	99.3	80-120		%REC	1	12/19/2012 3:12:10 PM

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- 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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1212667

26-Dec-12

Client: Souder, Miller and Associates

Project: Enterprise SJ 27-5 #133

Sample ID	LCS-5298		SampType:	LCS		TestCode:	EPA Method 8015B: Diesel Range Organics			
Client ID:	LCSS		Batch ID:	5298		RunNo:	7594			
Prep Date:	12/17/2012		Analysis Date:	12/19/2012		SeqNo:	220944		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	83.0	47.4	122			
Surr: DNOP	4.0		5.000		80.4	72.4	120			

Sample ID	MB-5298		SampType:	MBLK		TestCode:	EPA Method 8015B: Diesel Range Organics			
Client ID:	PBS		Batch ID:	5298		RunNo:	7594			
Prep Date:	12/17/2012		Analysis Date:	12/19/2012		SeqNo:	220945		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	9.3		10.00		93.2	72.4	120			

Sample ID	MB-5349		SampType:	MBLK		TestCode:	EPA Method 8015B: Diesel Range Organics			
Client ID:	PBS		Batch ID:	5349		RunNo:	7616			
Prep Date:	12/19/2012		Analysis Date:	12/20/2012		SeqNo:	222041		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	8.4		10.00		84.0	72.4	120			

Sample ID	LCS-5349		SampType:	LCS		TestCode:	EPA Method 8015B: Diesel Range Organics			
Client ID:	LCSS		Batch ID:	5349		RunNo:	7616			
Prep Date:	12/19/2012		Analysis Date:	12/20/2012		SeqNo:	222042		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	86.3	47.4	122			
Surr: DNOP	3.8		5.000		75.4	72.4	120			

Sample ID	1212667-007AMS		SampType:	MS		TestCode:	EPA Method 8015B: Diesel Range Organics			
Client ID:	North Base @ 10' (S		Batch ID:	5349		RunNo:	7616			
Prep Date:	12/19/2012		Analysis Date:	12/20/2012		SeqNo:	222043		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	51.28	0	90.4	12.6	148			
Surr: DNOP	3.6		5.128		70.9	72.4	120			S

Sample ID	1212667-007AMSD		SampType:	MSD		TestCode:	EPA Method 8015B: Diesel Range Organics			
Client ID:	North Base @ 10' (S		Batch ID:	5349		RunNo:	7616			
Prep Date:	12/19/2012		Analysis Date:	12/20/2012		SeqNo:	222044		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	51.44	0	88.0	12.6	148	2.31	22.5	
Surr: DNOP	3.6		5.144		70.1	72.4	120	0	0	S

### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- 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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1212667  
26-Dec-12

Client: Souder, Miller and Associates  
Project: Enterprise SJ 27-5 #133

Sample ID	MB-5281	SampType:	MBLK	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	PBS	Batch ID:	5281	RunNo:	7586					
Prep Date:	12/14/2012	Analysis Date:	12/18/2012	SeqNo:	220201	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	930		1000		92.6	84	116			

Sample ID	LCS-5281	SampType:	LCS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	LCSS	Batch ID:	5281	RunNo:	7586					
Prep Date:	12/14/2012	Analysis Date:	12/18/2012	SeqNo:	220202	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	89.7	74	117			
Surr: BFB	960		1000		96.0	84	116			

Sample ID	MB-5283	SampType:	MBLK	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	PBS	Batch ID:	5283	RunNo:	7599					
Prep Date:	12/14/2012	Analysis Date:	12/19/2012	SeqNo:	221152	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	930		1000		93.5	84	116			

Sample ID	LCS-5283	SampType:	LCS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	LCSS	Batch ID:	5283	RunNo:	7599					
Prep Date:	12/14/2012	Analysis Date:	12/19/2012	SeqNo:	221153	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	89.4	74	117			
Surr: BFB	950		1000		94.5	84	116			

Sample ID	MB-5330	SampType:	MBLK	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	PBS	Batch ID:	5330	RunNo:	7599					
Prep Date:	12/18/2012	Analysis Date:	12/20/2012	SeqNo:	221175	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	930		1000		92.7	84	116			

Sample ID	LCS-5330	SampType:	LCS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	LCSS	Batch ID:	5330	RunNo:	7599					
Prep Date:	12/18/2012	Analysis Date:	12/20/2012	SeqNo:	221176	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	950		1000		94.8	84	116			

### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- 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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1212667

26-Dec-12

Client: Souder, Miller and Associates

Project: Enterprise SJ 27-5 #133

Sample ID	1212667-005AMS	SampType:	MS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	Northeast Wall (S-5)	Batch ID:	5283	RunNo:	7599					
Prep Date:	12/14/2012	Analysis Date:	12/19/2012	SeqNo:	221506	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	4.8	23.92	1.326	73.9	70	130			
Surr: BFB	970		956.9		101	84	116			

Sample ID	1212667-005AMSD	SampType:	MSD	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	Northeast Wall (S-5)	Batch ID:	5283	RunNo:	7599					
Prep Date:	12/14/2012	Analysis Date:	12/19/2012	SeqNo:	221507	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.8	23.97	1.326	85.7	70	130	14.0	22.1	
Surr: BFB	990		958.8		103	84	116	0	0	

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- 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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1212667

26-Dec-12

Client: Souder, Miller and Associates

Project: Enterprise SJ 27-5 #133

Sample ID	MB-5281		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	5281		RunNo:	7586			
Prep Date:	12/14/2012		Analysis Date:	12/18/2012		SeqNo:	220237		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Sample ID	LCS-5281		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	5281		RunNo:	7586			
Prep Date:	12/14/2012		Analysis Date:	12/18/2012		SeqNo:	220238		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	102	76.3	117			
Toluene	1.0	0.050	1.000	0	101	80	120			
Ethylbenzene	1.0	0.050	1.000	0	102	77	116			
Xylenes, Total	3.0	0.10	3.000	0	101	76.7	117			
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120			

Sample ID	MB-5283		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	5283		RunNo:	7599			
Prep Date:	12/14/2012		Analysis Date:	12/19/2012		SeqNo:	221185		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Sample ID	LCS-5283		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	5283		RunNo:	7599			
Prep Date:	12/14/2012		Analysis Date:	12/19/2012		SeqNo:	221186		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	102	76.3	117			
Toluene	1.0	0.050	1.000	0	102	80	120			
Ethylbenzene	1.0	0.050	1.000	0	103	77	116			
Xylenes, Total	3.1	0.10	3.000	0	102	76.7	117			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	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
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
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# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1212667

26-Dec-12

Client: Souder, Miller and Associates

Project: Enterprise SJ 27-5 #133

Sample ID	1212667-004AMS	SampType:	MS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	Southeast Wall (S-4	Batch ID:	5283	RunNo:	7599					
Prep Date:	12/14/2012	Analysis Date:	12/19/2012	SeqNo:	221188	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.047	0.9461	0	92.5	67.2	113			
Toluene	0.92	0.047	0.9461	0	97.7	62.1	116			
Ethylbenzene	0.95	0.047	0.9461	0	100	67.9	127			
Xylenes, Total	2.8	0.095	2.838	0	98.5	60.6	134			
Surr: 4-Bromofluorobenzene	1.0		0.9461		107	80	120			

Sample ID	1212667-004AMSD	SampType: MSD	TestCode: EPA Method 8021B: Volatiles							
Client ID:	Southeast Wall (S-4	Batch ID: 5283	RunNo: 7599							
Prep Date:	12/14/2012	Analysis Date: 12/19/2012	SeqNo: 221189		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.048	0.9506	0	87.7	67.2	113	4.86	14.3	
Toluene	0.91	0.048	0.9506	0	95.7	62.1	116	1.64	15.9	
Ethylbenzene	0.94	0.048	0.9506	0	99.3	67.9	127	0.647	14.4	
Xylenes, Total	2.9	0.095	2.852	0	101	60.6	134	3.20	12.6	
Surr: 4-Bromofluorobenzene	1.0		0.9506		108	80	120	0	0	

Sample ID	MB-5330	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	5330	RunNo:	7599					
Prep Date:	12/18/2012	Analysis Date:	12/20/2012	SeqNo:	221204	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		105	80	120			

Sample ID	LCS-5330	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	5330	RunNo:	7599					
Prep Date:	12/18/2012	Analysis Date:	12/20/2012	SeqNo:	221205	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120			

### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- 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

# Sample Log-In Check List

Client Name: SMA-FARM Work Order Number: 1212667  
Received by/date: MG 12/14/12  
Logged By: Anne Thorne 12/14/2012 10:20:00 AM *Anne Thorne*  
Completed By: Anne Thorne 12/14/2012 *Anne Thorne*  
Reviewed By: *[Signature]* 12/14/12

## Chain of Custody

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

## Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA ☐
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
6. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
11. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

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

## Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
By Whom: \_\_\_\_\_ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person  
Regarding: \_\_\_\_\_  
Client Instructions: \_\_\_\_\_

18. Additional remarks:

## 19. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

<h1>Chain-of-Custody Record</h1>		Turn-Around Time:	
Client: <u>SMA</u>		<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush	
Mailing Address: <u>2101 San Juan Blvd.</u>		Project Name: <u>Enterprise</u>	
<u>Farmington, NM 87401</u>		<u>SJ 27-5 #133</u>	
Phone #: <u>505-325-7535</u>		Project #: <u>5121104</u>	
email or Fax#: <u>tom.lony@SandorMiller.com</u>		Project Manager: <u>Thomas Lony</u>	
QA/QC Package:		Sampler: <u>Thomas Lony</u>	
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)		Date: <u>10/26/04</u>	
Accreditation		Sample Temperature: <u>10°C</u>	
<input type="checkbox"/> NELAP <input type="checkbox"/> Other _____		Date: <u>10/26/04</u>	
<input type="checkbox"/> EDD (Type) _____		Date: <u>10/26/04</u>	

☒ Standard      ☐ Rush

Project Name:

Enterprise

SJ 27-5 #133

Project #:

5121104

**Project Manager:**

Thomas Long

**Sampler:**

Thomas Long

Sample Temperature

[illegible]

Date:	Time:	Relinquished by:
-------	-------	------------------

-12-12 | 1745

Relinquished by:

Thomas Day

Received by:

## Chapter 1 Goals

Date	Time
------	------

12/12/12 1705

Remarks:

## Bill To Enterprise

Date:	Time:	Relinquished by:
-------	-------	------------------

7/14/12 | 645

Relinquished by:

Shanti Lal Das

Received by:

M. 7.1. (+ 12/14/12 10:21)

Date \_\_\_\_\_ Time \_\_\_\_\_

2/14/12 10:21

Remarks:

## Bill To Enterprise

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility.



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

[www.hallenvironmental.com](http://www.hallenvironmental.com)

4901 Hawkins NE - Albuquerque, NM 87109

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

## Analysis Request



## Bill of Lading

MANIFEST #


42570

91057-0534  
~~09091-0094~~

DATE 12-11-12

JOB # 09091-0094

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

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLs	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	ENHANCED 50	LF II-4	CONC	5-4	20	-	E-tech	616	17:05	Butler
2	SS 27-5 #133	" "	SOIL	5-4	20	-	E-tech	560	18:30	Rick Smith
					40					
RESULTS:		LANDFARM EMPLOYEE:				NOTES:				
-278	CHLORIDE TEST									
	PAINT FILTER TEST	1	Certification of above receipt & placement							

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

TRANSPORTER CO. E-tech

NAME Buck Burkhow

SIGNATURE 

COMPANY CONTACT Donald Ortiz

PHONE 632-0615

DATE 12/11/12

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White - Company Records, Yellow - Billing, Pink - Customer

san juan reproduction 578-128



MANIFEST # 42571  
DATE 12-11-12 JOB # ~~0000000000~~  
97057-0534

[illegible]

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

TRANSPORTER CO.

NAME \_\_\_\_\_

**SIGNATURE**

## COMPANY CONTACT

**PHONE**

DATE \_\_\_\_\_

*Signatures required prior to distribution of the legal document.*



nvirotech

# Bill of Lading

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

MANIFEST # **42576**  
DATE 12/12/12 JOB # 97057-0534

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLs	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	Enterprise SJ215-133	LF-TL-4	Cont. soil	L-3	17	—	Del Prado	1	11:17	Ralph Prado
2	h 4	LL 4	11	m-3	17	-	Del Prado	1	17:30	Ralph Prado
RESULTS:			LANDFARM EMPLOYEE:			NOTES:				
-278	CHLORIDE TEST	1	 Certification of above receipt & placement							
	PAINT FILTER TEST	1								

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

TRANSPORTER CO. Del Prado

NAME Ralph Prado

SIGNATURE R P

COMPANY CONTACT Rick

PHONE 635-8578

DATE 12-12-12

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# Bill of Lading

MANIFEST #

42584

DATE 12-12-12

JOB # 97057-0534

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

[illegible]

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

TRANSPORTER CO. *IN P.S.A.*

NAME Mike Lobato

SIGNATURE 

## COMPANY CONTACT

**PHONE**

DATE 12-12-12

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## MANIFEST #

42589

DATE 12-13-12

JOB # 97057-0534

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

TRANSPORTER CO.

NAME \_\_\_\_\_

Rick Smith

**SIGNATURE**

Rick Smith

## COMPANY CONTACT

Jimmy M

**PHONE**

947-1166 5056320613

DATE 13

12-13-12

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san juan reproduction 578-126

nvirotech

## Bill of Lading

MANIFEST #

42592

DATE \_\_\_\_\_

$$12 \cdot 13 \cdot 12$$

**JOB #**

# 97057-0534

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

[illegible]

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

TRANSPORTER CO.

mpcA

NAME \_\_\_\_\_

Wil Lobato

**SIGNATURE**

1992

## COMPANY CONTACT

3-D. / Jimmy M.

**PHONE**

505-632-0615

DATE \_\_\_\_\_

12-13-12

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san juan reproduction 578-128

**envirotech**

## Bill of Lading

MANIFEST #

42594 0534

DATE \_\_\_\_\_

DATE 12.13.12 JOB # 97057-052

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

[illegible]

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

TRANSPORTER CO.

NAME Gilbert Garcia

**SIGNATURE**

SIGNATURE Albert Garcia

## COMPANY CONTACT

Jimmy M.

PHONE

PHONE 505-632-0615

DATE \_\_\_\_\_

DATE 12-13-12

**Signatures required prior to distribution of the legal document.**

White - Company Records, Yellow - Billing, Pink - Customer

san juan reproduction 578-129



## Bill of Lading

MANIFEST #

42596

0534

DATE 12-13-12

**JOB #**

# 97057-0523

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

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

TRANSPORTER CO. Del. Road NAME Ralph L. Peck SIGNATURE Ralph L. Peck

COMPANY CONTACT Peck PHONE 638-85-78 DATE 12-13-12

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

TRANSPORTER CO.

NAME

**SIGNATURE**

## COMPANY CONTACT

**PHONE**

DATE \_\_\_\_\_

***Signatures required prior to distribution of the legal document.***

White - Company Records, Yellow - g, Pink - Customer

san juan reproduction 578-126



Animas Environmental Services, LLC

[www.animasenvironmental.com](http://www.animasenvironmental.com)

December 5, 2012

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

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

Durango, Colorado  
970-403-3274

**RE: Release Assessment Report  
Lateral B-14 Pig Receiver  
San Juan County, New Mexico**

RCVD JAN 14 '13  
OIL CONS. DIV.  
DIST. 3

Dear Mr. Dailey:

On September 27, 2012, Animas Environmental Services, LLC (AES) completed an assessment associated with a non-reportable release consisting of liquids released during pigging operations from the Enterprise Field Services, LLC (Enterprise) Lateral B-14 Pig Receiver. The release location is approximately 6.5 miles east-southeast of Aztec, San Juan County, New Mexico.

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## 1.0 Site Information

### 1.1 Location

Location – SW¼ NW¼, Section 22, T30N, R10W, San Juan County, New Mexico

Latitude/Longitude – N36.7991 and W107.87754, respectively

Surface Owner – Federal (Bureau of Land Management)

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map

### 1.2 NMOCD Ranking

In accordance with the New Mexico Oil Conservation Division (NMOCD) *Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993), the release location was assigned a ranking score to establish release action levels. The ranking score was obtained in part by reviewing available records of nearby oil/gas wells using the NMOCD online database. A C-144 form dated October 2007 for the Helms Federal #1F well, located approximately 560 feet southwest of the release area, reported the depth to groundwater as greater than 100 feet below ground surface (bgs). Additionally, the New Mexico Office of the State Engineer (NMOSE) database was reviewed for nearby water wells, and no registered water wells were reported to be located within 1,000 feet of the location.

Google Earth and the New Mexico Tech Petroleum Recovery Research Center online mapping tool (<http://ford.nmt.edu/react/project.html>) were accessed to aid in the identification of downgradient surface water. The Cerritos Canyon wash is located approximately 325 feet west of the release location. Based on this information, the release location was assessed a ranking score of 10.

### *1.3 Assessment and Mitigation*

On September 27, 2012, AES collected a total of nine soil samples for field screening and laboratory analysis from the area of surface staining. Soil sample locations are included on Figure 3, and a photograph log is attached.

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## *2.0 Soil Sampling*

AES personnel collected nine discrete soil samples from eight locations (S-1 through S-8) in an area of surface staining for field screening. Eight of the soil samples were also submitted for laboratory analysis. Each soil sample was collected with a shovel at 0.5 to 1 foot bgs.

### *2.1 Field Screening*

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

### *2.2 Laboratory Analyses*

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

## 2.3 Field Screening and Laboratory Analytical Results

Soil field screening results showed that VOC concentrations ranged from 28.3 ppm in S-1 up to 3,098 ppm in S-6 at 0.5 feet bgs. Soil analytical results from S-1 through S-8 showed that benzene concentrations were below laboratory detection limits. Total BTEX concentrations were above laboratory detection limits in S-3 (0.14 mg/kg), S-5 (0.18 mg/kg), and S-8 (0.27 mg/kg). TPH concentrations were above laboratory detection limits in S-2 (570 mg/kg GRO), S-3 (10 mg/kg GRO), S-4 (5.6 mg/kg GRO), S-5 (36 mg/kg GRO), S-6 (30.5 mg/kg GRO/DRO), and S-8 (80 mg/kg GRO/DRO). Laboratory analytical results are included in Table 1 and on Figure 3. Laboratory analytical reports are attached.

Table 1. Soil Field Screening and Laboratory Analytical Results  
Lateral B-14 Pig Receiver September 2012 Release

Sample ID	Sample Date	Depth (ft)	VOCs OVM (ppm)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)
<b>NMOCD Action Level</b>			<b>100</b>	<b>10</b>	<b>50</b>	<b>1,000*</b>	
S-1	9/27/12	0.5	28.3	<0.048	<0.241	<4.8	<10
S-2	9/27/12	0.5	<b>115</b>	<0.25	<1.24	<25	570
S-3	9/27/12	0.5	<b>703</b>	<0.049	0.14	10	<10
S-4	9/27/12	0.5	<b>1,170</b>	<0.047	<0.235	5.6	<9.9
S-5	9/27/12	0.5	<b>160</b>	<0.048	0.18	36	<10
S-6	9/27/12	0.5	<b>3,098</b>	NA	NA	NA	NA
		1	<b>792</b>	<0.050	<0.25	5.5	25
S-7	9/27/12	0.5	59.9	<0.050	<0.249	<5.0	<10
S-8	9/27/12	0.5	<b>650</b>	<0.099	0.27	22	58

NA - not analyzed; \*Action level determined by the NMOCD ranking score per *NMOCD Guidelines for Leaks, Spills, and Releases* (August 1993).

## 3.0 Conclusions and Recommendations

NMOCD action levels for releases are specified in NMOCD's *Guidelines for Leaks, Spills, and Releases* (August 1993), and the release was assigned a ranking score of 10. Based on field screening values, VOC concentrations were above the NMOCD action level of 100 ppm in seven of the soil samples. However, laboratory analytical results for benzene, total BTEX, and TPH (as GRO/DRO) were all below applicable NMOCD action levels.

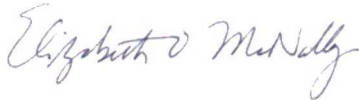
Additionally, on October 18, 2012, at the request of Enterprise, AES personnel applied a dilute solution of Simple Green and water to soil within the release area to stimulate biodegradation of residual petroleum hydrocarbons. A total volume of 187 gallons of a 10:1 solution of Simple Green was applied with a pressure washer and raked into the impacted soil. Based on field observations, laboratory analytical results, and the application of Simple Green, no further work is recommended.

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

Sincerely,



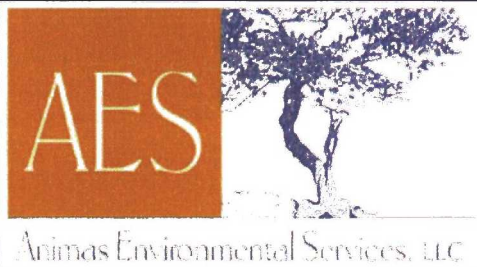
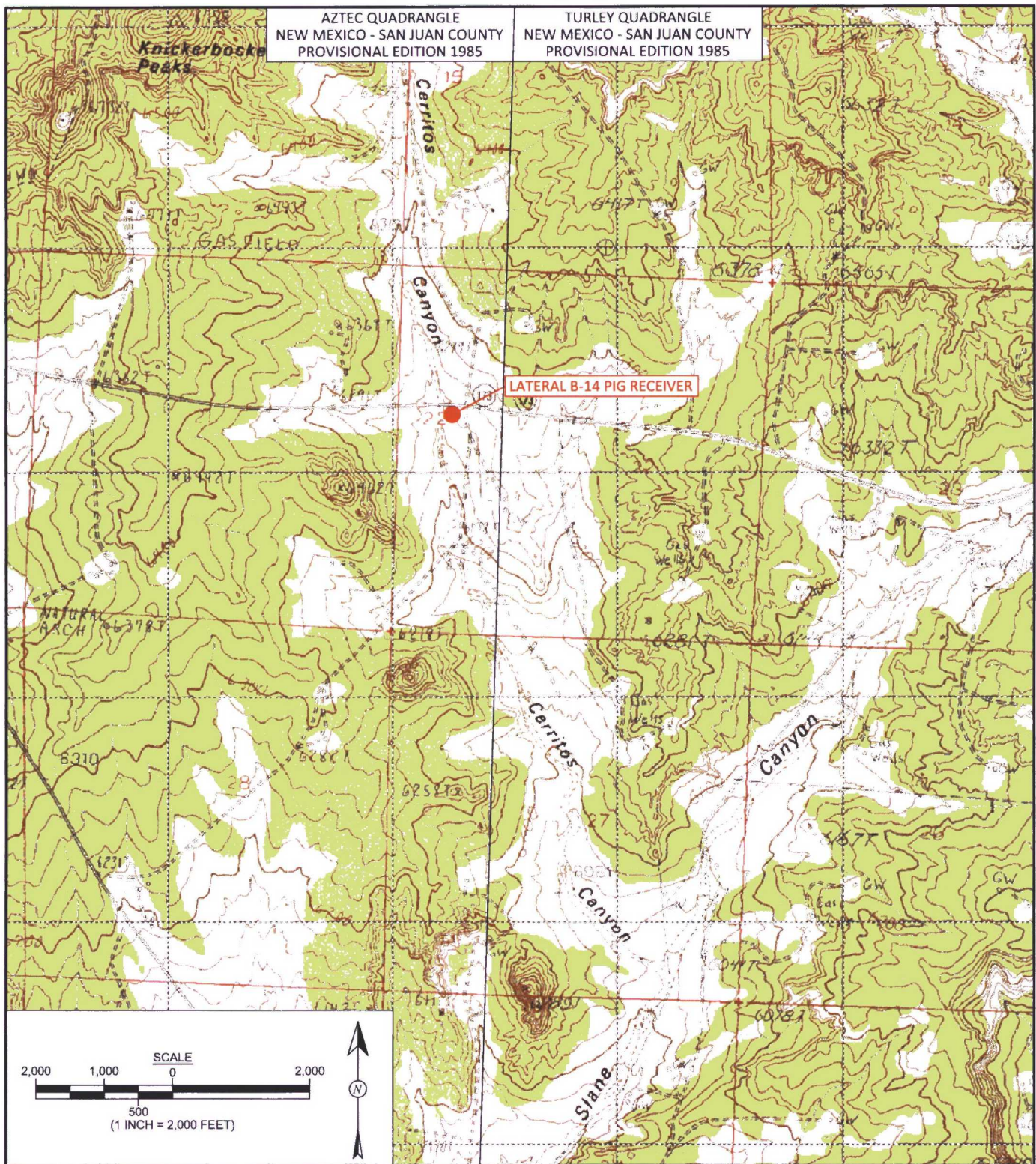
Landrea Cupps  
Environmental Scientist



Elizabeth McNally, P.E.

Attachments:

- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map
- Figure 3. Sample Locations and Results, September 2012
- Photograph Log
- Laboratory Analytical Reports (Hall 1209D16)



<b>DRAWN BY:</b> C. Lameman	<b>DATE DRAWN:</b> September 28, 2012
<b>REVISIONS BY:</b> C. Lameman	<b>DATE REVISED:</b> September 28, 2012
<b>CHECKED BY:</b> T. Ross	<b>DATE CHECKED:</b> September 28, 2012
<b>APPROVED BY:</b> E. McNally	<b>DATE APPROVED:</b> September 28, 2012

**FIGURE 1**

**TOPOGRAPHIC SITE LOCATION MAP**  
ENTERPRISE FIELD SERVICES, LLC  
LATERAL B-14 PIG RECEIVER  
COUNTY, NEW MEXICO  
SW¼ NW¼, SECTION 22, T30N, R10W  
N36.7991, W107.87754



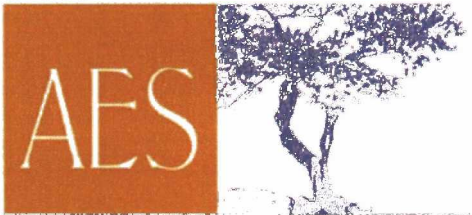
 <p>Animas Environmental Services, LLC</p>	DRAWN BY: C. Larmann	DATE DRAWN: September 28, 2012	<p><b>FIGURE 2</b></p> <p>AERIAL SITE MAP ENTERPRISE FIELD SERVICES, LLC LATERAL B-14 PIG RECEIVER COUNTY, NEW MEXICO SW¼, NW¼, SECTION 22, T30N, R10W N36.7981, W107.67754</p>
	REVISIONS BY: C. Larmann	DATE REVISED: September 25, 2012	
	CHECKED BY: T. Ross	DATE CHECKED: September 28, 2012	
	APPROVED BY: E. McNally	DATE APPROVED: September 28, 2012	

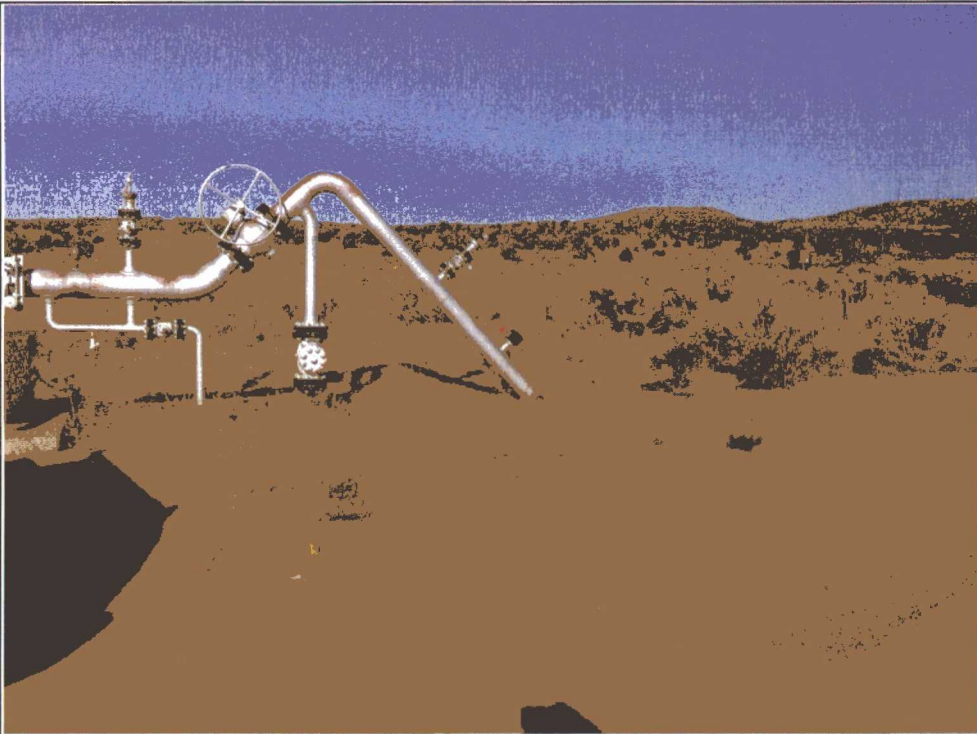
Photo #1	
Client: Enterprise Field Services, LLC	
Project: Lateral B-14 Pig Receiver	
Taken by: Tami Ross	
September 27, 2012	
AES Project No: 120923	Description: Lateral B-14 Pig Receiver

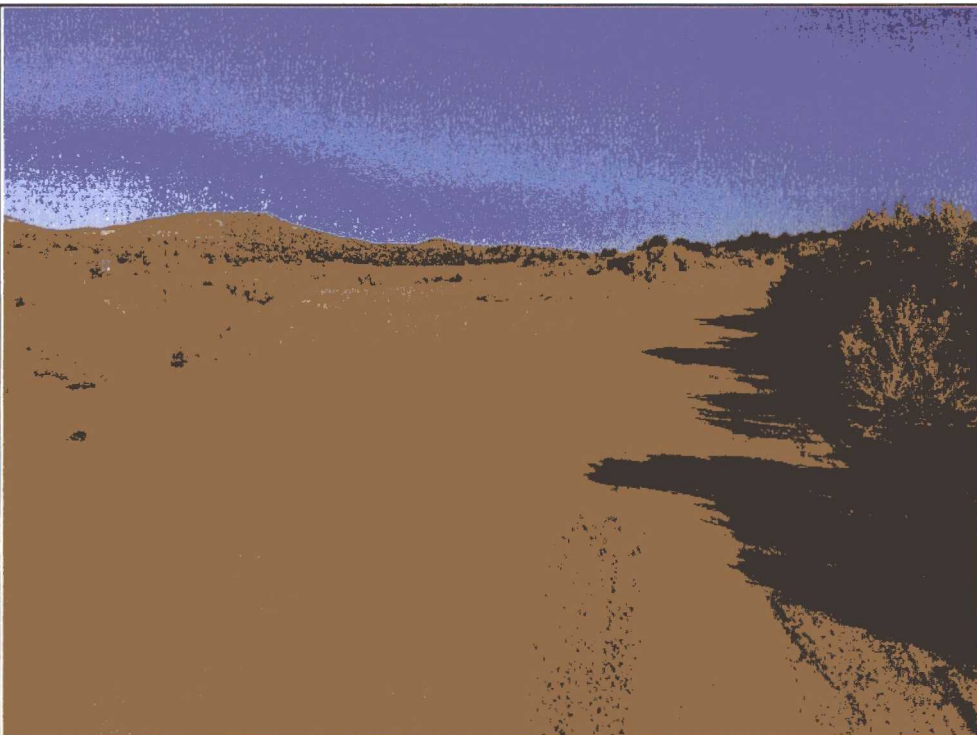
Photo #2	
Client: Enterprise Field Services, LLC	
Project: Lateral B-14 Pig Receiver	
Taken by: Tami Ross	
September 27, 2012	
AES Project No: 120923	Description: View to the north of surface staining.



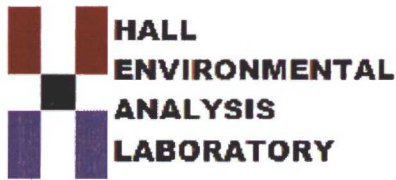
Photo #3	
Client: Enterprise Field Services, LLC	
Project: Lateral B-14 Pig Receiver	
Taken by: Tami Ross	
September 27, 2012	
AES Project No: 120923	Description: View to the south of surface staining.

Photo #4	
Client: Enterprise Field Services, LLC	
Project: Lateral B-14 Pig Receiver	
Taken by: Zachary Trujillo	
October 18, 2012	
AES Project No: 120923	Description: View to the north following application of Simple Green.



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

October 09, 2012

Tami Ross  
Animas Environmental Services  
624 East Comanche  
Farmington, NM 87401  
TEL: (505) 793-2072  
FAX

RE: Lateral B-14 Pig Reciever

OrderNo.: 1209D16

Dear Tami Ross:

Hall Environmental Analysis Laboratory received 8 sample(s) on 9/28/2012 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](http://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,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Analytical Report**Lab Order **1209D16**Date Reported: **10/9/2012****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Animas Environmental Services**Client Sample ID:** S-1**Project:** Lateral B-14 Pig Reciever**Collection Date:** 9/27/2012 9:45:00 AM**Lab ID:** 1209D16-001**Matrix:** SOIL**Received Date:** 9/28/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: <b>JMP</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/2/2012 11:07:37 AM
Surr: DNOP	105	77.6-140		%REC	1	10/2/2012 11:07:37 AM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/30/2012 8:44:51 PM
Surr: BFB	94.5	84-116		%REC	1	9/30/2012 8:44:51 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.048		mg/Kg	1	9/30/2012 8:44:51 PM
Toluene	ND	0.048		mg/Kg	1	9/30/2012 8:44:51 PM
Ethylbenzene	ND	0.048		mg/Kg	1	9/30/2012 8:44:51 PM
Xylenes, Total	ND	0.097		mg/Kg	1	9/30/2012 8:44:51 PM
Surr: 4-Bromofluorobenzene	93.2	80-120		%REC	1	9/30/2012 8:44:51 PM

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- 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

## Analytical Report

Lab Order 1209D16

Date Reported: 10/9/2012

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: S-2

Project: Lateral B-14 Pig Reciever

Collection Date: 9/27/2012 9:57:00 AM

Lab ID: 1209D16-002

Matrix: SOIL

Received Date: 9/28/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: <b>JMP</b>
Diesel Range Organics (DRO)	570	99		mg/Kg	10	10/2/2012 2:31:34 PM
Surr: DNOP	0	77.6-140	S	%REC	10	10/2/2012 2:31:34 PM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	10/3/2012 10:51:16 PM
Surr: BFB	101	84-116		%REC	5	10/3/2012 10:51:16 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.25		mg/Kg	5	10/3/2012 10:51:16 PM
Toluene	ND	0.25		mg/Kg	5	10/3/2012 10:51:16 PM
Ethylbenzene	ND	0.25		mg/Kg	5	10/3/2012 10:51:16 PM
Xylenes, Total	ND	0.49		mg/Kg	5	10/3/2012 10:51:16 PM
Surr: 4-Bromofluorobenzene	105	80-120		%REC	5	10/3/2012 10:51:16 PM

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- 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

**Analytical Report**Lab Order **1209D16**Date Reported: **10/9/2012****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Animas Environmental Services**Client Sample ID:** S-3**Project:** Lateral B-14 Pig Reciever**Collection Date:** 9/27/2012 10:03:00 AM**Lab ID:** 1209D16-003**Matrix:** SOIL**Received Date:** 9/28/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: <b>JMP</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/2/2012 11:50:56 AM
Surr: DNOP	109	77.6-140		%REC	1	10/2/2012 11:50:56 AM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	10	4.9		mg/Kg	1	10/3/2012 11:48:52 PM
Surr: BFB	129	84-116	S	%REC	1	10/3/2012 11:48:52 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.049		mg/Kg	1	10/3/2012 11:48:52 PM
Toluene	ND	0.049		mg/Kg	1	10/3/2012 11:48:52 PM
Ethylbenzene	ND	0.049		mg/Kg	1	10/3/2012 11:48:52 PM
Xylenes, Total	0.14	0.098		mg/Kg	1	10/3/2012 11:48:52 PM
Surr: 4-Bromofluorobenzene	108	80-120		%REC	1	10/3/2012 11:48:52 PM

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- 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

**Analytical Report**

Lab Order 1209D16

Date Reported: 10/9/2012

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Animas Environmental Services**Client Sample ID:** S-4**Project:** Lateral B-14 Pig Reciever**Collection Date:** 9/27/2012 10:07:00 AM**Lab ID:** 1209D16-004**Matrix:** SOIL**Received Date:** 9/28/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: <b>JMP</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/2/2012 12:12:42 PM
Surr: DNOP	105	77.6-140		%REC	1	10/2/2012 12:12:42 PM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	5.6	4.7		mg/Kg	1	10/4/2012 12:17:33 AM
Surr: BFB	118	84-116	S	%REC	1	10/4/2012 12:17:33 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.047		mg/Kg	1	10/4/2012 12:17:33 AM
Toluene	ND	0.047		mg/Kg	1	10/4/2012 12:17:33 AM
Ethylbenzene	ND	0.047		mg/Kg	1	10/4/2012 12:17:33 AM
Xylenes, Total	ND	0.094		mg/Kg	1	10/4/2012 12:17:33 AM
Surr: 4-Bromofluorobenzene	108	80-120		%REC	1	10/4/2012 12:17:33 AM

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- 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

# Analytical Report

Lab Order 1209D16

Date Reported: 10/9/2012

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: S-5

Project: Lateral B-14 Pig Reciever

Collection Date: 9/27/2012 10:12:00 AM

Lab ID: 1209D16-005

Matrix: SOIL

Received Date: 9/28/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/2/2012 12:34:23 PM
Surr: DNOP	109	77.6-140		%REC	1	10/2/2012 12:34:23 PM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: NSB
Gasoline Range Organics (GRO)	36	4.8		mg/Kg	1	10/4/2012 12:46:19 AM
Surr: BFB	238	84-116	S	%REC	1	10/4/2012 12:46:19 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	10/4/2012 12:46:19 AM
Toluene	ND	0.048		mg/Kg	1	10/4/2012 12:46:19 AM
Ethylbenzene	0.061	0.048		mg/Kg	1	10/4/2012 12:46:19 AM
Xylenes, Total	0.12	0.096		mg/Kg	1	10/4/2012 12:46:19 AM
Surr: 4-Bromofluorobenzene	114	80-120		%REC	1	10/4/2012 12:46:19 AM

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- 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

**Analytical Report**

Lab Order 1209D16

Date Reported: 10/9/2012

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Animas Environmental Services**Client Sample ID:** S-6 @ 1'**Project:** Lateral B-14 Pig Reciever**Collection Date:** 9/27/2012 10:52:00 AM**Lab ID:** 1209D16-006**Matrix:** SOIL**Received Date:** 9/28/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: JMB
Diesel Range Organics (DRO)	25	10		mg/Kg	1	10/2/2012 1:02:29 PM
Surr: DNOP	110	77.6-140		%REC	1	10/2/2012 1:02:29 PM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: NSB
Gasoline Range Organics (GRO)	5.5	5.0		mg/Kg	1	10/4/2012 1:15:01 AM
Surr: BFB	132	84-116	S	%REC	1	10/4/2012 1:15:01 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	10/4/2012 1:15:01 AM
Toluene	ND	0.050		mg/Kg	1	10/4/2012 1:15:01 AM
Ethylbenzene	ND	0.050		mg/Kg	1	10/4/2012 1:15:01 AM
Xylenes, Total	ND	0.10		mg/Kg	1	10/4/2012 1:15:01 AM
Surr: 4-Bromofluorobenzene	110	80-120		%REC	1	10/4/2012 1:15:01 AM

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- 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

**Analytical Report**Lab Order **1209D16**Date Reported: **10/9/2012****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Animas Environmental Services**Client Sample ID:** S-7**Project:** Lateral B-14 Pig Reciever**Collection Date:** 9/27/2012 10:18:00 AM**Lab ID:** 1209D16-007**Matrix:** SOIL**Received Date:** 9/28/2012 10:00:00 AM

<b>Analyses</b>	<b>Result</b>	<b>RL</b>	<b>Qual</b>	<b>Units</b>	<b>DF</b>	<b>Date Analyzed</b>
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						<b>Analyst: JMP</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/2/2012 1:24:18 PM
Surr: DNOP	108	77.6-140		%REC	1	10/2/2012 1:24:18 PM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						<b>Analyst: NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/1/2012 2:29:55 AM
Surr: BFB	98.9	84-116		%REC	1	10/1/2012 2:29:55 AM
<b>EPA METHOD 8021B: VOLATILES</b>						<b>Analyst: NSB</b>
Benzene	ND	0.050		mg/Kg	1	10/1/2012 2:29:55 AM
Toluene	ND	0.050		mg/Kg	1	10/1/2012 2:29:55 AM
Ethylbenzene	ND	0.050		mg/Kg	1	10/1/2012 2:29:55 AM
Xylenes, Total	ND	0.099		mg/Kg	1	10/1/2012 2:29:55 AM
Surr: 4-Bromofluorobenzene	97.2	80-120		%REC	1	10/1/2012 2:29:55 AM

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- 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

## Analytical Report

Lab Order 1209D16

Date Reported: 10/9/2012

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: S-8

Project: Lateral B-14 Pig Reciever

Collection Date: 9/27/2012 10:20:00 AM

Lab ID: 1209D16-008

Matrix: SOIL

Received Date: 9/28/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: <b>JMP</b>
Diesel Range Organics (DRO)	58	9.9		mg/Kg	1	10/2/2012 1:46:02 PM
Surr: DNOP	118	77.6-140		%REC	1	10/2/2012 1:46:02 PM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	22	9.9		mg/Kg	2	10/4/2012 2:12:27 AM
Surr: BFB	163	84-116	S	%REC	2	10/4/2012 2:12:27 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.099		mg/Kg	2	10/4/2012 2:12:27 AM
Toluene	ND	0.099		mg/Kg	2	10/4/2012 2:12:27 AM
Ethylbenzene	ND	0.099		mg/Kg	2	10/4/2012 2:12:27 AM
Xylenes, Total	0.27	0.20		mg/Kg	2	10/4/2012 2:12:27 AM
Surr: 4-Bromofluorobenzene	109	80-120		%REC	2	10/4/2012 2:12:27 AM

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- 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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1209D16

09-Oct-12

Client: Animas Environmental Services

Project: Lateral B-14 Pig Reciever

Sample ID	<b>MB-4010</b>		SampType:	<b>MBLK</b>		TestCode:	<b>EPA Method 8015B: Diesel Range Organics</b>			
Client ID:	<b>PBS</b>		Batch ID:	<b>4010</b>		RunNo:	<b>5903</b>			
Prep Date:	<b>10/1/2012</b>		Analysis Date:	<b>10/2/2012</b>		SeqNo:	<b>170050</b>		Units: <b>mg/Kg</b>	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	10		10.00		103	77.6	140			

Sample ID	<b>LCS-4010</b>		SampType:	<b>LCS</b>		TestCode:	<b>EPA Method 8015B: Diesel Range Organics</b>			
Client ID:	<b>LCSS</b>		Batch ID:	<b>4010</b>		RunNo:	<b>5903</b>			
Prep Date:	<b>10/1/2012</b>		Analysis Date:	<b>10/2/2012</b>		SeqNo:	<b>170051</b>		Units: <b>mg/Kg</b>	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	90.7	52.6	130			
Surr: DNOP	4.3		5.000		86.8	77.6	140			

### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- 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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1209D16  
09-Oct-12

Client: Animas Environmental Services

Project: Lateral B-14 Pig Reciever

Sample ID	MB-4004	SampType:	MBLK	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	PBS	Batch ID:	4004	RunNo:	5859					
Prep Date:	9/29/2012	Analysis Date:	9/30/2012	SeqNo:	168574	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	970		1000		97.0	84	116			

Sample ID	LCS-4004	SampType:	LCS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	LCSS	Batch ID:	4004	RunNo:	5859					
Prep Date:	9/29/2012	Analysis Date:	9/30/2012	SeqNo:	168575	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.6	74	117			
Surr: BFB	1000		1000		99.8	84	116			

### Qualifiers:

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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1209D16

09-Oct-12

Client: Animas Environmental Services

Project: Lateral B-14 Pig Reciever

Sample ID	<b>MB-4004</b>		SampType:	<b>MBLK</b>		TestCode:	<b>EPA Method 8021B: Volatiles</b>			
Client ID:	<b>PBS</b>		Batch ID:	<b>4004</b>		RunNo:	<b>5859</b>			
Prep Date:	<b>9/29/2012</b>		Analysis Date:	<b>9/30/2012</b>		SeqNo:	<b>168614</b>		Units: <b>mg/Kg</b>	
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		97.4	80	120			

Sample ID	<b>LCS-4004</b>		SampType:	<b>LCS</b>		TestCode:	<b>EPA Method 8021B: Volatiles</b>			
Client ID:	<b>LCSS</b>		Batch ID:	<b>4004</b>		RunNo:	<b>5859</b>			
Prep Date:	<b>9/29/2012</b>		Analysis Date:	<b>9/30/2012</b>		SeqNo:	<b>168615</b>		Units: <b>mg/Kg</b>	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.050	1.000	0	96.3	76.3	117			
Toluene	0.99	0.050	1.000	0	98.7	80	120			
Ethylbenzene	0.99	0.050	1.000	0	99.1	77	116			
Xylenes, Total	3.0	0.10	3.000	0	101	76.7	117			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	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

- 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



HALL ENVIRONMENTAL ANALYSIS LABORATORY  
4901 Hawkins NE  
Albuquerque, NM 87105  
TEL: 505-345-3975 FAX: 505-345-410;  
Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name: Animas Environmental Work Order Number: 1209D16  
Received by/date: [Signature] 09/28/12  
Logged By: Lindsay Mangin 9/28/2012 10:00:00 AM [Signature]  
Completed By: Lindsay Mangin 9/28/2012 11:10:28 AM [Signature]  
Reviewed By: [Signature] 09/28/12

### Chain of Custody

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

### Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA ☐  
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐  
6. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐  
7. Sample(s) in proper container(s)? Yes ☒ No ☐  
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐  
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐  
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐  
11. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒  
12. Were any sample containers received broken? Yes ☐ No ☒  
13. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐  
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐  
15. Is it clear what analyses were requested? Yes ☒ No ☐  
16. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

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

### Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
By Whom: \_\_\_\_\_ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person  
Regarding: \_\_\_\_\_  
Client Instructions: \_\_\_\_\_

18. Additional remarks:

### 19. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.5	Good	Yes			

# Chain-of-Custody Record

Client: Animas Environmental

Mailing Address: 624 E Comanche  
Farmington NM 87401

Phone #: 505 564 2281

email or Fax#: 505 324 2022

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

Accreditation  
☐ NELAP ☐ Other \_\_\_\_\_

☐ EDD (Type) \_\_\_\_\_

Turn-Around Time:  
☒ Standard ☐ Rush \_\_\_\_\_

Project Name: Lateral B-14 Pig Receiver

Project #:

Project Manager: Tami Ross

Sampler: TCR

On Ice: ☒ Yes ☐ No

Sample Temperature: 2.5



**HALL ENVIRONMENTAL  
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

## Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TPH (Gas only)	BTEX + MTBE + TPH (Gas/Diesel)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> )	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Rubbles (Y or N)
9/27/12	945	SOIL	S-1	402	T	-001	X	X	X									
9/27/12	957	SOIL	S-2	402	T	-002	X	X	X									
9/27/12	1003	SOIL	S-3	402	T	-003	X	X	X									
9/27/12	1007	SOIL	S-4	402	T	-004	X	X	X									
9/27/12	1012	SOIL	S-5	402	T	-005	X	X	X									
9/27/12	1052	SOIL	S-6 @ 1'	402	T	-006	X	X	X									
9/27/12	1018	SOIL	S-7	402	T	-007	X	X	X									
9/27/12	1020	SOIL	S-8	402	L	-008	X	X	X									

Date: 9/27/12 Time: 1659 Relinquished by: Tami Ross

Date: 9/27/12 Time: 1659 Received by: Christine Warden

Date: 9/27/12 Time: 1717 Relinquished by: Christine Warden

Date: 9/28/12 Time: 1000 Received by: [Signature]

Remarks: BILL TO ENTERPRISE PRODUCTS COMPANY