AE Order Number Banner

Report Description

This report shows an AE Order Number in Barcode format for purposes of scanning. The Barcode format is Code 39.

App Number: pJK1424832159

3RP - 1011

ENTERPRISE PRODUCTS OPERATING, LLC

1/19/2017

3R-1011

Release Report/ General Correspondence

Enterprise SJ

Date: 2012

597

Animas Environmental Services, LLC
www.animasenvironmental.com
624 E. Comanche
Farmington, NM 87401
505-564-2281
Durango, Colorado
970-403-3274

December 30, 2011

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

RE: Confirmation Soil Sampling Results for Lateral H-37 Release
San Juan County, New Mexico

Dear Mr. Dailey:

Animas Environmental Services, LLC (AES) is pleased to submit the final report for confirmation soil sampling results associated with a release, which occurred along the Enterprise Products Company (Enterprise) 6-inch diameter Lateral H-37 pipeline. The release is located approximately 12 miles north of Farmington, San Juan County, New Mexico, on private land owned by Patrick and Joleen Walters.

1.0 Release Information

1.1 Release Location

On November 18, 2011, the release was discovered by the property owner and reported to Enterprise. On the same date, Enterprise employees were dispatched to confirm the release and proceeded to shut in four affected wells, de-pressurize the associated lines, and lock out/tag out associated control valves.

The release is located within the NE¼, NE¼, Section 3, T31N, R13W, San Juan County, New Mexico. Latitude and longitude at the point of release were recorded as N36°56.051' and W108°10.986', respectively. A topographic site location map is included as Figure 1, and an aerial map showing a portion of the pipeline and the release location is included as Figure 2.

The release occurred in a portion of the property that is utilized as an irrigated alpha/grass field. Surface runoff drains west towards the La Plata River, which flows south and ultimately discharges into the San Juan River located approximately 14.5 miles to the south-southwest. Based on the elevation difference between the release location and the La Plata River, the depth to groundwater at the release location is estimated to be less than 30 feet below ground surface (bgs). The release is located within 600 feet of a wellhead protection area.

1.2 Assessment and Mitigation

On November 29, 2011, Enterprise contractor Industrial Mechanical, Inc. (IMI) completed a small excavation to expose the pipeline, which was located at 5.7 feet bgs. Upon inspection, IMI determined that the release resulted from a 1/8 inch corrosion hole located at the underside of the pipe. IMI and Enterprise personnel worked late into the evening, and a new section of pipe was installed.

On November 30, 2011, IMI expanded the excavation at the direction of AES to remove hydrocarbon contaminated soil. AES collected field screening samples to evaluate the level of soil contamination present along the walls and base as the excavation was expanded. At about 12:30, an archeological feature was unearthed, and work was subsequently halted. AES contacted Runell Seale and Aaron Dailey of Enterprise, and Enterprise personnel then contacted the San Juan County Museum Division of Conservation Archaeology (DCA) according to standard procedures. Arrangements were made between Enterprise and DCA for a qualified representative from DCA to inspect the cultural resources on December 1, 2011.

On December 1, 2011, Larry Baker from DCA inspected and recorded the archaeological feature. Following clearance from DCA, the excavation of contaminated soil proceeded. An additional archeological feature was encountered later during the day and was also recorded and cleared by DCA. Excavation work continued until contaminant field screening results indicated that impacted soils had been removed to the extent required by New Mexico Oil Conservation Division (NMOCD) regulations.

The final excavation dimensions measured approximately 22 feet long by 22 feet wide by 13 feet deep. Approximately 236 cubic yards of hydrocarbon contaminated soil were transported by IMI to the IEI Landfarm, near Farmington, New Mexico, for disposal. Following the collection of soil confirmation samples, which is discussed in the next section, the excavation was backfilled with sandy clay material from 13 feet bgs to 2 feet bgs and topsoil from 2 feet bgs to grade. A photograph log and waste manifests are attached.

2.0 Soil Sampling

On December 1 2011, prior to backfilling the excavation, AES personnel completed soil field screening and collected soil samples for laboratory confirmation at 15 locations within the excavation. Soil sample locations are included on Figure 3.

2.1 Soil Field Screening

Fifteen soil samples (S-1 through S-15) were field screened for volatile organic compound (VOC) vapors with a photo-ionization detector (PID) organic vapor meter (OVM), which was calibrated to 100 parts per million (ppm) with isobutylene gas. OVM sample locations and results are presented in Table 1 and in Figure 3.

2.2 Soil Laboratory Analyses

Fifteen confirmation soil samples (S-1 through S-15) were collected for laboratory analysis from approximately 6 feet bgs (mid-wall) and 13 feet bgs (base) within the excavation. The samples 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. The samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall), in Albuquerque, New Mexico. The 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 Soil Laboratory Analytical Results

Analytical laboratory results are summarized in the Table 1.

Table 1. Soil OVM and Analytical Results, Lateral H-37 November 2011 Release

Sample ID and Date	Depth (ft)	OVM (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Xylene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)
					NMOCD Action Level				
		100	10	NE	NE	NE	50	100	
S-1 12/1/11	6	53.5	<0.049	0.056	<0.049	0.39	<0.54	<4.9	<9.9
S-2 12/1/11	6	57.3	<0.049	<0.049	<0.049	0.47	<0.62	6.5	<10
S-3 12/1/11	6	37.1	<0.050	0.063	<0.050	0.61	<0.77	<5.0	<9.7
S-4 12/1/11	6	34.6	<0.049	0.078	<0.049	0.74	<0.92	<4.9	<10
S-5 12/1/11	6	11.3	<0.047	<0.047	<0.047	<0.094	<0.24	<4.7	<9.6
S-6 12/1/11	6	14.5	<0.048	0.056	<0.048	0.32	<0.47	<4.8	<9.9
S-7 12/1/11	6	41.8	<0.048	0.065	<0.048	0.45	<0.61	<4.8	<9.9
S-8 12/1/11	6	38.3	<0.050	0.10	<0.050	0.70	<0.90	<5.0	<10
S-9 12/1/11	6	28.1	<0.047	0.048	<0.047	0.23	<0.37	<4.7	<9.9
S-10 12/1/11	6	54.5	<0.047	0.052	<0.047	0.29	<0.44	<4.7	<9.9
S-11 12/1/11	13	13.0	<0.046	<0.046	<0.046	<0.091	<0.23	<4.6	<9.9
S-12 12/1/11	13	24.3	<0.048	<0.048	<0.048	0.11	<0.25	<4.8	<10
S-13 12/1/11	13	17.5	<0.048	<0.048	<0.048	<0.096	<0.24	<4.8	<10
S-14 12/1/11	13	44.1	<0.049	0.075	<0.049	0.54	<0.71	<4.9	<9.9
S-15 12/1/11	13	62.8	<0.047	0.14	<0.047	0.57	<0.80	<4.7	<10

*Note – NE is not established

BTEX and TPH concentrations for all soil samples collected were either below laboratory detection limits or below applicable NMOCD action levels. Laboratory analytical results are included in Figure 3, and laboratory analytical reports are attached.

3.0 Conclusions and Recommendations

Based on field observations, field screening values, and laboratory analytical results for the confirmation soil samples, petroleum hydrocarbon impacted soils were removed to below NMOCD action levels. Reseeding of the area disturbed during the pipeline repair and soil excavation is scheduled to be completed in May 2012 per the landowner's specifications.

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

Sincerely,

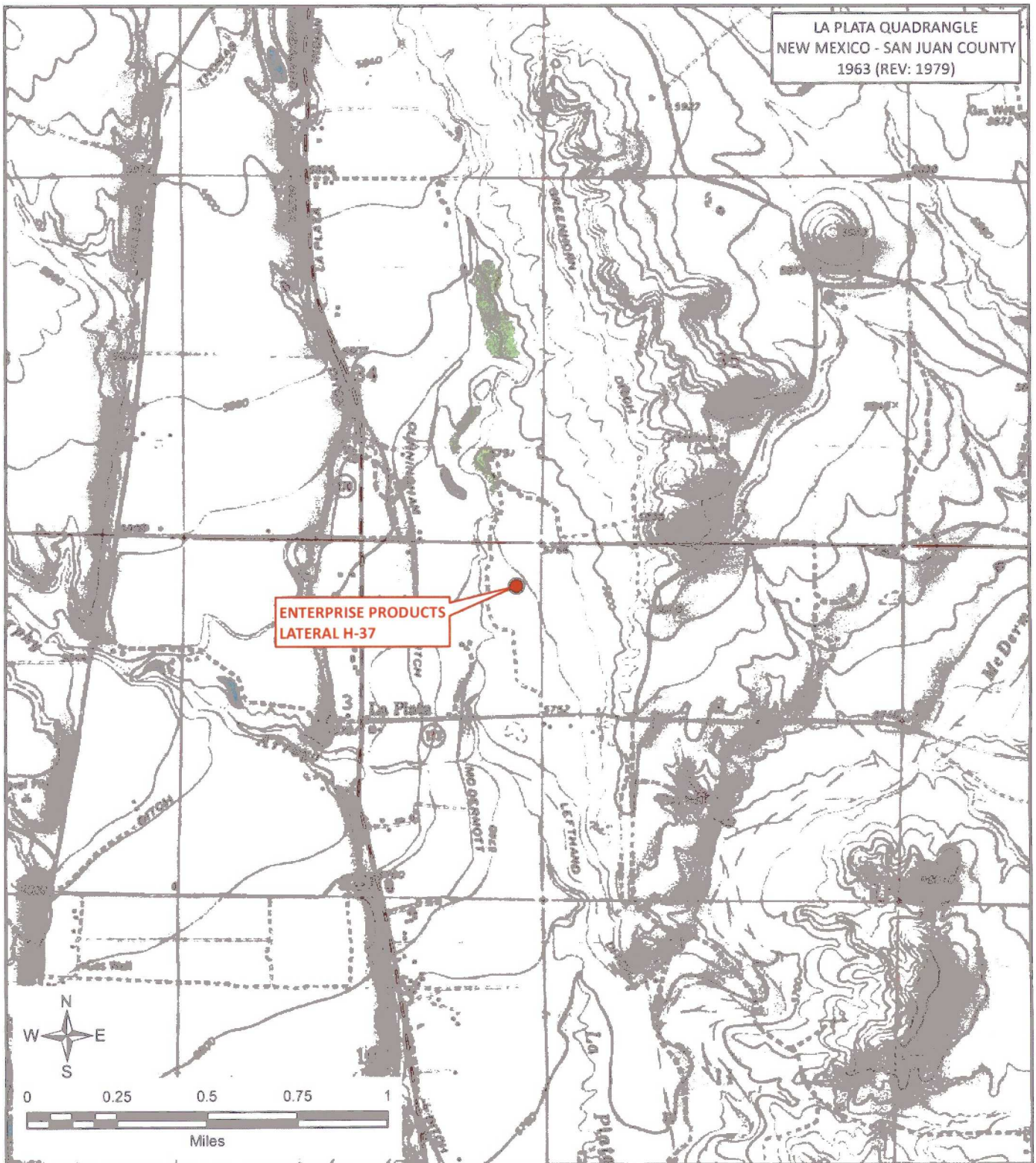
Ross Kennemer
Sr. Project Manager

Elizabeth McNally, P.E.

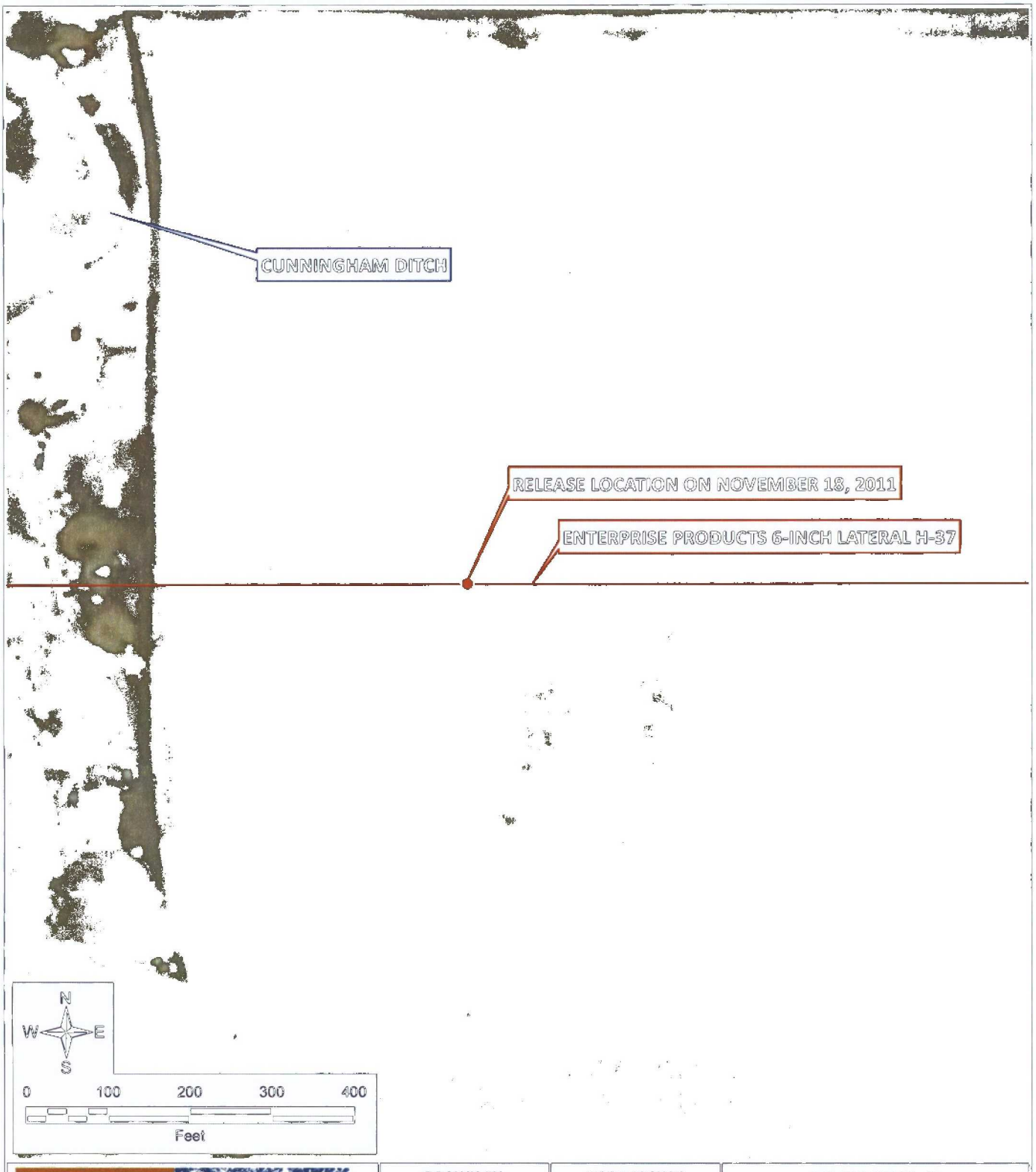
Attachments:

Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Map
Figure 3. Sample Location Map, December 2011
Photograph Log
Waste Disposal Manifest – Form C-138
Laboratory Analytical Reports (Hall #1112194)

S:\Animas 2000\2011 Projects\Enterprise Products\Lateral H 37\Enterprise Lateral H37 letter report 123011.docx

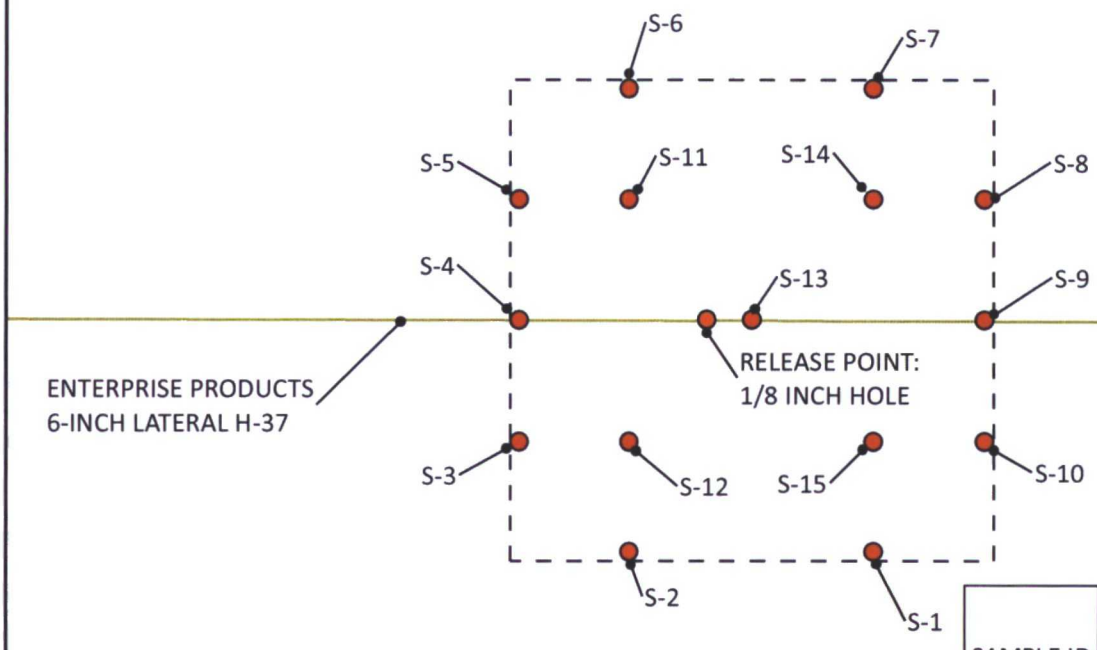


AES Animas Environmental Services, LLC	**DRAWN BY:** N. Willis	**DATE DRAWN:** December 14, 2011	**FIGURE 1**
	REVISED BY: C. Lameman	**DATE REVISED:** January 3, 2012	**TOPOGRAPHIC SITE LOCATION MAP** ENTERPRISE PRODUCTS LATERAL H-37 SAN JUAN COUNTY, NEW MEXICO NE1/4, NE1/4, SECTION 3, T31N, R13W N36°56.051', W108°10.986'
	CHECKED BY: T. Ross	**DATE CHECKED:** January 3, 2012	
	APPROVED BY: E. McNally	**DATE APPROVED:** January 3, 2012	



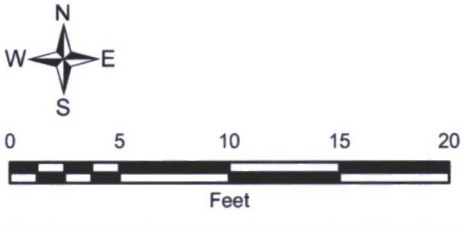
Animas Environmental Services, LLC

DRAWN BY: N. Willis	DATE DRAWN: December 14, 2011	FIGURE 2
REVISED BY: C. Lameman	DATE REVISED: January 3, 2012	AERIAL SITE MAP
CHECKED BY: T. Ross	DATE CHECKED: January 3, 2012	ENTERPRISE PRODUCTS LATERAL H-37 SAN JUAN COUNTY, NEW MEXICO NE1/4, NE1/4, SECTION 3, T31N, R13W N36°56.051', W108°10.986'
APPROVED BY: E. McNally	DATE APPROVED: January 3, 2012	



SAMPLE ID	DEPTH BGS (FT)	OVM-PID (PPM)
S-1	6	53.5
S-2	6	57.3
S-3	6	37.1
S-4	6	34.6
S-5	6	11.3
S-6	6	14.5
S-7	6	41.8
S-8	6	38.3
S-9	6	28.1
S-10	6	54.5
S-11	13	13.0
S-12	13	24.3
S-13	13	17.5
S-14	13	44.1
S-15	13	62.8

NOTE: ALL SAMPLES COLLECTED ON DECEMBER 1, 2011.



Animas Environmental Services, LLC

DRAWN BY: N. Willis	**DATE DRAWN:** December 14, 2011
REVISED BY: C. Lameman	**DATE REVISED:** January 3, 2012
CHECKED BY: T. Ross	**DATE CHECKED:** January 3, 2012
APPROVED BY: E. McNally	**DATE APPROVED:** January 3, 2012

FIGURE 3

SAMPLE LOCATION MAP
DECEMBER 2011

ENTERPRISE PRODUCTS
LATERAL H-37
SAN JUAN COUNTY, NEW MEXICO
NE1/4, NE1/4, SECTION 3, T31N, R13W
N36°56.051', W108°10.986'

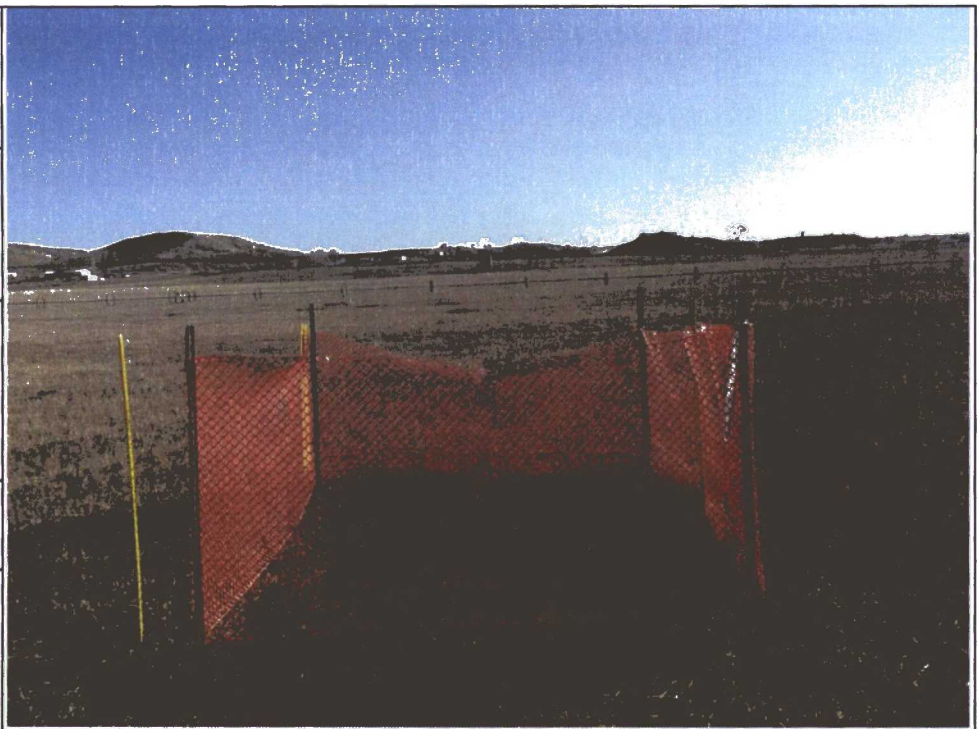
Photo #1	
Client: Enterprise Products Company	
Project: Lateral H-37 Release	
Taken by: Ross Kennemer	
November 29, 2011	
AES Project No: 111116	Facility: Lateral H-37 Pipeline
	Location: Approximately 12 miles north of Farmington, NM
	Description: Facing E, general view of stained soils, prior to excavation.

Photo #2	
Client: Enterprise Products Company	
Project: Lateral H-37 Release	
Taken by: Ross Kennemer	
November 30, 2011	
AES Project No: 111116	Facility: Lateral H-37 Pipeline
	Location: Approximately 12 miles north of Farmington, NM
	Description: Facing W, Lateral H-37 following repair to the line.

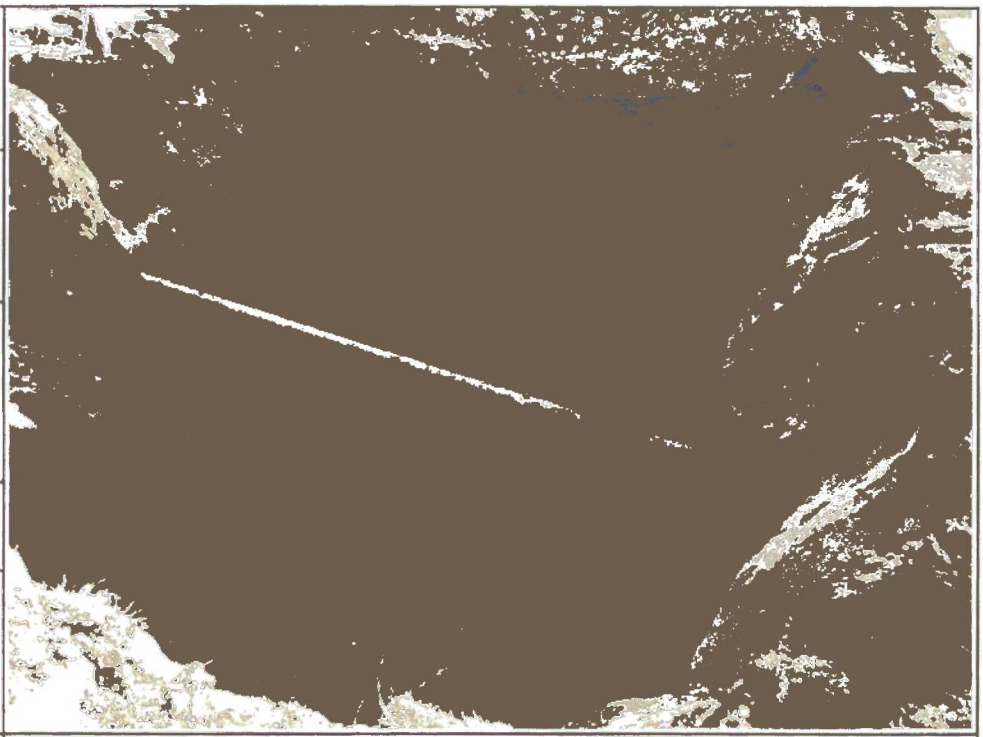
Photo #3	
Client: Enterprise Products Company	
Project: Lateral H-37 Release	
Taken by: Ross Kennemer	
December 1, 2011	
AES Project No: 111116	Facility: Lateral H-37 Pipeline
	Location: Approximately 12 miles north of Farmington, NM
	Description: Facing S, final extent of excavation, prior to back filling.

Photo #4	
Client: Enterprise Products Company	
Project: Lateral H-37 Release	
Taken by: Ross Kennemer	
December 1, 2011	
AES Project No: 111116	Facility: Lateral H-37 Pipeline
	Location: Approximately 12 miles north of Farmington, NM
	Description: Facing W, backfilling of excavation with sandy clay fill.

Photo #5	
Client: Enterprise Products Company	
Project: Lateral H-37 Release	
Taken by: Ross Kennemer	
December 16, 2011	
AES Project No: 111116	Facility: Lateral H-37 Pipeline
	Location: Approximately 12 miles north of Farmington, NM
	Description: Facing SE, excavation backfilled and graded.

Industrial Ecosystems Inc.
Soil Reclamation Center

Phone: (505) 632-1782
Fax: (505) 334-1003

#49 CR 3150
Aztec, NM 87410

www.industrialecosystems.com

"This is bioremediation at its best; fast, effective, and cost efficient"

FACSIMILE TRANSMITTAL SHEET

TO: Debbie

FROM: 324-2022

FAX #: Marcello

DATE:

COMMENTS:

Per your request – 236cy total

If you have any questions, please feel free to contact me at 632-1782. Thanks.

2 pages total

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-138
Revised March 12, 2007

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

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. **Generator Name and Address:**
Enterprise Products Operating, LP.

2. **Originating Site:**
Lateral H-37 [redacted]

3. **Location of Material (Street Address, City, State or ULSTR):**
Section 3T31N R13W; GPS: N 36 56.051 W 108 10.986 12-2-11 40cy
10/14-14cy
11/30/11-10cy

4. **Source and Description of Waste:**
Source: Pipeline release
Description: Stained soil from natural gas condensate and produced water released from in service pipeline.
Estimated Volume 20 yd³ / bbls Known Volume (to be entered by the operator at the end of the haul) 40 yd³ / bbls

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

I, Aaron Dailey [signature] , representative or authorized agent for Enterprise Products Operating, LP.
SIGNATURE OF REPRESENTATIVE - PRINT NAME **COMPANY NAME**
do hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. [redacted]

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

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

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, [signature] Aaron Dailey, representative for Enterprise Products Operating, LP authorize Envirotech to complete the required testing/sign the Generator Waste Testing Certification.

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

5. **Transporter: IMI-Contact R. Campbell**

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: **JFJ Landfarm/Industrial Ecosystems, Inc. * Permit #: NM 01-0010B**

Address of Facility: **49 CR 3150 Aztec. NM 87410**

Method of Treatment and/or Disposal:
☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status: ☒ **APPROVED** ☐ **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: M. Marquez TITLE: HSE DATE: 11/04/11
SIGNATURE: M. Marquez TELEPHONE NO.: 632-1782
Surface Waste Management Facility Authorized Agent

11-21-11

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Monday, December 12, 2011

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

TEL: (505) 564-2281
FAX (505) 324-2022

RE: Enterprise Products Company Lateral H-37 Pipeline

Order No.: 1112194

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory, Inc. received 15 sample(s) on 12/2/2011 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682

Hall Environmental Analysis Laboratory, Inc.

Date: *12-Dec-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	S-1
Lab Order:	1112194	**Collection Date:**	12/1/2011 11:09:00 AM
Project:	Enterprise Products Company Lateral H-37 Pipe	**Date Received:**	12/2/2011
Lab ID:	1112194-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/7/2011 9:09:26 PM
Surr: DNOP	103	77.4-131		%REC	1	12/7/2011 9:09:26 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/8/2011 3:40:48 PM
Surr: BFB	81.8	75.2-136		%REC	1	12/8/2011 3:40:48 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.049		mg/Kg	1	12/8/2011 3:40:48 PM
Toluene	0.056	0.049		mg/Kg	1	12/8/2011 3:40:48 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/8/2011 3:40:48 PM
Xylenes, Total	0.39	0.098		mg/Kg	1	12/8/2011 3:40:48 PM
Surr: 4-Bromofluorobenzene	76.8	80-120	S	%REC	1	12/8/2011 3:40:48 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *12-Dec-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	S-2
Lab Order:	1112194	**Collection Date:**	12/1/2011 11:12:00 AM
Project:	Enterprise Products Company Lateral H-37 Pipe	**Date Received:**	12/2/2011
Lab ID:	1112194-02	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/7/2011 10:16:54 PM
Surr: DNOP	98.5	77.4-131		%REC	1	12/7/2011 10:16:54 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	6.5	4.9		mg/Kg	1	12/8/2011 4:11:05 PM
Surr: BFB	107	75.2-136		%REC	1	12/8/2011 4:11:05 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.049		mg/Kg	1	12/8/2011 4:11:05 PM
Toluene	ND	0.049		mg/Kg	1	12/8/2011 4:11:05 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/8/2011 4:11:05 PM
Xylenes, Total	0.47	0.098		mg/Kg	1	12/8/2011 4:11:05 PM
Surr: 4-Bromofluorobenzene	101	80-120		%REC	1	12/8/2011 4:11:05 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *12-Dec-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	S-3
Lab Order:	1112194	**Collection Date:**	12/1/2011 11:17:00 AM
Project:	Enterprise Products Company Lateral H-37 Pipe	**Date Received:**	12/2/2011
Lab ID:	1112194-03	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/7/2011 10:50:48 PM
Surr: DNOP	102	77.4-131		%REC	1	12/7/2011 10:50:48 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/8/2011 4:41:26 PM
Surr: BFB	98.9	75.2-136		%REC	1	12/8/2011 4:41:26 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.050		mg/Kg	1	12/8/2011 4:41:26 PM
Toluene	0.063	0.050		mg/Kg	1	12/8/2011 4:41:26 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/8/2011 4:41:26 PM
Xylenes, Total	0.61	0.10		mg/Kg	1	12/8/2011 4:41:26 PM
Surr: 4-Bromofluorobenzene	95.0	80-120		%REC	1	12/8/2011 4:41:26 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *12-Dec-11*

Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	S-4
Lab Order:	1112194	**Collection Date:**	12/1/2011 11:30:00 AM
Project:	Enterprise Products Company Lateral H-37 Pipe	**Date Received:**	12/2/2011
Lab ID:	1112194-04	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/7/2011 11:24:44 PM
Surr: DNOP	94.4	77.4-131		%REC	1	12/7/2011 11:24:44 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/8/2011 5:11:48 PM
Surr: BFB	96.2	75.2-136		%REC	1	12/8/2011 5:11:48 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.049		mg/Kg	1	12/8/2011 5:11:48 PM
Toluene	0.078	0.049		mg/Kg	1	12/8/2011 5:11:48 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/8/2011 5:11:48 PM
Xylenes, Total	0.74	0.098		mg/Kg	1	12/8/2011 5:11:48 PM
Surr: 4-Bromofluorobenzene	93.7	80-120		%REC	1	12/8/2011 5:11:48 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *12-Dec-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	S-5
Lab Order:	1112194	**Collection Date:**	12/1/2011 11:35:00 AM
Project:	Enterprise Products Company Lateral H-37 Pipe	**Date Received:**	12/2/2011
Lab ID:	1112194-05	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	12/7/2011 11:58:03 PM
Surr: DNOP	108	77.4-131		%REC	1	12/7/2011 11:58:03 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/8/2011 5:42:04 PM
Surr: BFB	92.1	75.2-136		%REC	1	12/8/2011 5:42:04 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.047		mg/Kg	1	12/8/2011 5:42:04 PM
Toluene	ND	0.047		mg/Kg	1	12/8/2011 5:42:04 PM
Ethylbenzene	ND	0.047		mg/Kg	1	12/8/2011 5:42:04 PM
Xylenes, Total	ND	0.094		mg/Kg	1	12/8/2011 5:42:04 PM
Surr: 4-Bromofluorobenzene	89.6	80-120		%REC	1	12/8/2011 5:42:04 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *12-Dec-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	S-6
Lab Order:	1112194	**Collection Date:**	12/1/2011 11:38:00 AM
Project:	Enterprise Products Company Lateral H-37 Pipe	**Date Received:**	12/2/2011
Lab ID:	1112194-06	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/8/2011 12:31:41 AM
Surr: DNOP	98.2	77.4-131		%REC	1	12/8/2011 12:31:41 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/8/2011 6:12:16 PM
Surr: BFB	93.5	75.2-136		%REC	1	12/8/2011 6:12:16 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.048		mg/Kg	1	12/8/2011 6:12:16 PM
Toluene	0.056	0.048		mg/Kg	1	12/8/2011 6:12:16 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/8/2011 6:12:16 PM
Xylenes, Total	0.32	0.097		mg/Kg	1	12/8/2011 6:12:16 PM
Surr: 4-Bromofluorobenzene	96.2	80-120		%REC	1	12/8/2011 6:12:16 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *12-Dec-11*

Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	S-7
Lab Order:	1112194	**Collection Date:**	12/1/2011 11:42:00 AM
Project:	Enterprise Products Company Lateral H-37 Pipe	**Date Received:**	12/2/2011
Lab ID:	1112194-07	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/8/2011 1:05:20 AM
Surr: DNOP	106	77.4-131		%REC	1	12/8/2011 1:05:20 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/8/2011 6:42:25 PM
Surr: BFB	101	75.2-136		%REC	1	12/8/2011 6:42:25 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.048		mg/Kg	1	12/8/2011 6:42:25 PM
Toluene	0.065	0.048		mg/Kg	1	12/8/2011 6:42:25 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/8/2011 6:42:25 PM
Xylenes, Total	0.45	0.096		mg/Kg	1	12/8/2011 6:42:25 PM
Surr: 4-Bromofluorobenzene	97.9	80-120		%REC	1	12/8/2011 6:42:25 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *12-Dec-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	S-8
Lab Order:	1112194	**Collection Date:**	12/1/2011 11:46:00 AM
Project:	Enterprise Products Company Lateral H-37 Pipe	**Date Received:**	12/2/2011
Lab ID:	1112194-08	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/8/2011 1:38:57 AM
Surr: DNOP	93.6	77.4-131		%REC	1	12/8/2011 1:38:57 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/8/2011 7:12:44 PM
Surr: BFB	103	75.2-136		%REC	1	12/8/2011 7:12:44 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.050		mg/Kg	1	12/8/2011 7:12:44 PM
Toluene	0.10	0.050		mg/Kg	1	12/8/2011 7:12:44 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/8/2011 7:12:44 PM
Xylenes, Total	0.70	0.10		mg/Kg	1	12/8/2011 7:12:44 PM
Surr: 4-Bromofluorobenzene	99.1	80-120		%REC	1	12/8/2011 7:12:44 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *12-Dec-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	S-9
Lab Order:	1112194	**Collection Date:**	12/1/2011 11:49:00 AM
Project:	Enterprise Products Company Lateral H-37 Pipe	**Date Received:**	12/2/2011
Lab ID:	1112194-09	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/8/2011 2:12:21 AM
Surr: DNOP	97.0	77.4-131		%REC	1	12/8/2011 2:12:21 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/9/2011 1:45:40 AM
Surr: BFB	93.0	75.2-136		%REC	1	12/9/2011 1:45:40 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.047		mg/Kg	1	12/9/2011 1:45:40 AM
Toluene	0.048	0.047		mg/Kg	1	12/9/2011 1:45:40 AM
Ethylbenzene	ND	0.047		mg/Kg	1	12/9/2011 1:45:40 AM
Xylenes, Total	0.23	0.095		mg/Kg	1	12/9/2011 1:45:40 AM
Surr: 4-Bromofluorobenzene	92.4	80-120		%REC	1	12/9/2011 1:45:40 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *12-Dec-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	S-10
Lab Order:	1112194	**Collection Date:**	12/1/2011 11:53:00 AM
Project:	Enterprise Products Company Lateral H-37 Pipe	**Date Received:**	12/2/2011
Lab ID:	1112194-10	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/8/2011 2:46:16 AM
Surr: DNOP	93.5	77.4-131		%REC	1	12/8/2011 2:46:16 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/9/2011 2:15:46 AM
Surr: BFB	94.9	75.2-136		%REC	1	12/9/2011 2:15:46 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.047		mg/Kg	1	12/9/2011 2:15:46 AM
Toluene	0.052	0.047		mg/Kg	1	12/9/2011 2:15:46 AM
Ethylbenzene	ND	0.047		mg/Kg	1	12/9/2011 2:15:46 AM
Xylenes, Total	0.29	0.094		mg/Kg	1	12/9/2011 2:15:46 AM
Surr: 4-Bromofluorobenzene	96.0	80-120		%REC	1	12/9/2011 2:15:46 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *12-Dec-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	S-11
Lab Order:	1112194	**Collection Date:**	12/1/2011 1:52:00 PM
Project:	Enterprise Products Company Lateral H-37 Pipe	**Date Received:**	12/2/2011
Lab ID:	1112194-11	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/8/2011 3:20:00 AM
Surr: DNOP	100	77.4-131		%REC	1	12/8/2011 3:20:00 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/9/2011 2:45:41 AM
Surr: BFB	94.8	75.2-136		%REC	1	12/9/2011 2:45:41 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.046		mg/Kg	1	12/9/2011 2:45:41 AM
Toluene	ND	0.046		mg/Kg	1	12/9/2011 2:45:41 AM
Ethylbenzene	ND	0.046		mg/Kg	1	12/9/2011 2:45:41 AM
Xylenes, Total	ND	0.091		mg/Kg	1	12/9/2011 2:45:41 AM
Surr: 4-Bromofluorobenzene	97.1	80-120		%REC	1	12/9/2011 2:45:41 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *12-Dec-11*

Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	S-12
Lab Order:	1112194	**Collection Date:**	12/1/2011 2:04:00 PM
Project:	Enterprise Products Company Lateral H-37 Pipe	**Date Received:**	12/2/2011
Lab ID:	1112194-12	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/8/2011 4:27:31 AM
Surr: DNOP	92.5	77.4-131		%REC	1	12/8/2011 4:27:31 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/9/2011 3:15:50 AM
Surr: BFB	79.4	75.2-136		%REC	1	12/9/2011 3:15:50 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.048		mg/Kg	1	12/9/2011 3:15:50 AM
Toluene	ND	0.048		mg/Kg	1	12/9/2011 3:15:50 AM
Ethylbenzene	ND	0.048		mg/Kg	1	12/9/2011 3:15:50 AM
Xylenes, Total	0.11	0.096		mg/Kg	1	12/9/2011 3:15:50 AM
Surr: 4-Bromofluorobenzene	80.8	80-120		%REC	1	12/9/2011 3:15:50 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *12-Dec-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	S-13
Lab Order:	1112194	**Collection Date:**	12/1/2011 2:10:00 PM
Project:	Enterprise Products Company Lateral H-37 Pipe	**Date Received:**	12/2/2011
Lab ID:	1112194-13	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/8/2011 9:32:28 AM
Surr: DNOP	90.4	77.4-131		%REC	1	12/8/2011 9:32:28 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/9/2011 3:46:01 AM
Surr: BFB	77.0	75.2-136		%REC	1	12/9/2011 3:46:01 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.048		mg/Kg	1	12/9/2011 3:46:01 AM
Toluene	ND	0.048		mg/Kg	1	12/9/2011 3:46:01 AM
Ethylbenzene	ND	0.048		mg/Kg	1	12/9/2011 3:46:01 AM
Xylenes, Total	ND	0.096		mg/Kg	1	12/9/2011 3:46:01 AM
Surr: 4-Bromofluorobenzene	78.5	80-120	S	%REC	1	12/9/2011 3:46:01 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *12-Dec-11*

Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	S-14
Lab Order:	1112194	**Collection Date:**	12/1/2011 2:24:00 PM
Project:	Enterprise Products Company Lateral H-37 Pipe	**Date Received:**	12/2/2011
Lab ID:	1112194-14	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/8/2011 11:14:36 AM
Surr: DNOP	92.8	77.4-131		%REC	1	12/8/2011 11:14:36 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/9/2011 4:16:16 AM
Surr: BFB	97.6	75.2-136		%REC	1	12/9/2011 4:16:16 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.049		mg/Kg	1	12/9/2011 4:16:16 AM
Toluene	0.075	0.049		mg/Kg	1	12/9/2011 4:16:16 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/9/2011 4:16:16 AM
Xylenes, Total	0.54	0.097		mg/Kg	1	12/9/2011 4:16:16 AM
Surr: 4-Bromofluorobenzene	98.2	80-120		%REC	1	12/9/2011 4:16:16 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *12-Dec-11*

Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	S-15
Lab Order:	1112194	**Collection Date:**	12/1/2011 2:35:00 PM
Project:	Enterprise Products Company Lateral H-37 Pipe	**Date Received:**	12/2/2011
Lab ID:	1112194-15	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/8/2011 11:48:46 AM
Surr: DNOP	94.2	77.4-131		%REC	1	12/8/2011 11:48:46 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/9/2011 4:46:31 AM
Surr: BFB	94.8	75.2-136		%REC	1	12/9/2011 4:46:31 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.047		mg/Kg	1	12/9/2011 4:46:31 AM
Toluene	0.14	0.047		mg/Kg	1	12/9/2011 4:46:31 AM
Ethylbenzene	ND	0.047		mg/Kg	1	12/9/2011 4:46:31 AM
Xylenes, Total	0.57	0.095		mg/Kg	1	12/9/2011 4:46:31 AM
Surr: 4-Bromofluorobenzene	98.9	80-120		%REC	1	12/9/2011 4:46:31 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: Enterprise Products Company Lateral H-37 Pipe **Work Order:** 1112194

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8015B: Diesel Range Organics											
Sample ID: 1112194-13AMSD		*MSD*				Batch ID: **29631**		Analysis Date: 12/8/2011 10:40:16 AM			
Range Organics (DRO)	49.13	mg/Kg	9.8	48.97	6.525	87.0	57.2	146	11.0	26.7	
Sample ID: MB-29630		*MBLK*				Batch ID: **29630**		Analysis Date: 12/7/2011 4:05:01 PM			
Diesel Range Organics (DRO)	ND	mg/Kg	10								
Sample ID: MB-29631		*MBLK*				Batch ID: **29631**		Analysis Date: 12/8/2011 5:00:34 AM			
Range Organics (DRO)	ND	mg/Kg	10								
ID: LCS-29630		*LCS*				Batch ID: **29630**		Analysis Date: 12/7/2011 4:38:55 PM			
Range Organics (DRO)	51.15	mg/Kg	10	50	0	102	62.7	139			
Sample ID: LCS-29631		*LCS*				Batch ID: **29631**		Analysis Date: 12/8/2011 5:34:30 AM			
Range Organics (DRO)	45.46	mg/Kg	10	50	0	90.9	62.7	139			
ID: 1112194-13AMS		*MS*				Batch ID: **29631**		Analysis Date: 12/8/2011 10:06:24 AM			
Range Organics (DRO)	54.86	mg/Kg	10	50.76	6.525	95.2	57.2	146			
Method: EPA Method 8015B: Gasoline Range											
Sample ID: 1112194-01AMSD		*MSD*				Batch ID: **29626**		Analysis Date: 12/8/2011 11:44:37 PM			
Gasoline Range Organics (GRO)	30.41	mg/Kg	4.9	24.68	4.504	105	72.4	149	7.19	19.2	
Sample ID: MB-29626		*MBLK*				Batch ID: **29626**		Analysis Date: 12/8/2011 1:09:29 PM			
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0								
Sample ID: LCS-29626		*LCS*				Batch ID: **29626**		Analysis Date: 12/8/2011 12:08:50 PM			
Gasoline Range Organics (GRO)	29.96	mg/Kg	5.0	25	0	120	86.4	132			
ID: 1112194-01AMS		*MS*				Batch ID: **29626**		Analysis Date: 12/8/2011 11:14:13 PM			
Gasoline Range Organics (GRO)	28.30	mg/Kg	4.9	24.51	4.504	97.1	72.4	149			
Method: EPA Method 8021B: Volatiles											
Sample ID: MB-29626		*MBLK*				Batch ID: **29626**		Analysis Date: 12/8/2011 1:09:29 PM			
Benzene	ND	mg/Kg	0.050								
Toluene	ND	mg/Kg	0.050								
Ethylbenzene	ND	mg/Kg	0.050								
Xylenes, Total	ND	mg/Kg	0.10								
ID: LCS-29626		*LCS*				Batch ID: **29626**		Analysis Date: 12/8/2011 12:39:09 PM			
Benzene	1.055	mg/Kg	0.050	1	0	106	80	120			
Toluene	1.025	mg/Kg	0.050	1	0.0056	102	80	120			
Ethylbenzene	1.091	mg/Kg	0.050	1	0.0085	108	80	120			
Xylenes, Total	3.431	mg/Kg	0.10	3	0	114	80	120			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name **ANIMAS ENVIRONMENTAL** Date Received: **12/2/2011**

Work Order Number **1112194** Received by: **MMG**

Sample ID labels checked by: _____ Initials

Checklist completed by: Michelle Garcia 12/2/11 Signature Date

Matrix: Carrier name: Courier

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☑	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		Number of preserved bottles checked for pH:
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	_____ *<2 >12 unless noted below.*
Container/Temp Blank temperature?	**1.3°**	*<6° C Acceptable* If given sufficient time to cool.		

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: Animas Environmental Services

Mailing Address: 624 E. Comanche
Farmington, NM 87401

Phone #: (505) 564-2281

email or Fax#: 324-2022

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

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush _____

Project Name: Enterprise Products Company lateral H-37 Pipeline Release

Project #:

Project Manager: Ross Kennemer

Sampler: Ross Kennemer

On Ice: ☐ Yes ☐ No

Sample Temperature:

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. 112194	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_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
12-1-11	1109	Soil	S-1	4 oz glass	4°C	1	X		X													
	1112		S-2			2	X		X													
	1117		S-3			3	X		X													
	1130		S-4			4	X		X													
	1135		S-5			5	X		X													
	1138		S-6			6	X		X													
	1142		S-7			7	X		X													
	1146		S-8			8	X		X													
	1149		S-9			9	X		X													
	1153		S-10			10	X		X													
	1352		S-11			11	X		X													
	1404		S-12			12	X		X													

Date:	Time:	Relinquished by:	Received by:	Date	Time
12-1-11	1606	Ross Kennemer	Christine Walker	12/1/11	1606
12/1/11	1615	Christine Walker	Michelle Garcia	12/2/11	9:30

Remarks: Invoice 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.

Chain-of-Custody Record

Client: Animas Environmental Services

Mailing Address: 624 E. Comanche
Farmington, NM 87401

Phone #: (505) 564-2281

email or Fax#: 324-2022

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

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush _____

Project Name:
Enterprise Products Company
Lateral #-37 Pipeline Release

Project #:

Project Manager:
Ross Kennemer

Sampler: Ross Kennemer

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.3°

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. 1112194	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_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
12-1-11	1410	Soil	S-13	4oz glass/1	4°C	13	X		X													
"	1424	"	S-14	"	"	14	X		X													
"	1435	"	S-15	"	"	15	X		X													

Date:	Time:	Relinquished by:	Received by:	Date	Time
12-1-11	1616	Ross Kennemer	Christine Walker	12/1/11	1600
12/1/11	1615	Christine Walker	Mitchell Cowan	12/2/11	9:30

Remarks: Invoice 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 ☒ Final Report

Name of Company Enterprise Products	Contact Aaron Dailey
Address 614 Reilly Avenue, Farmington, NM 87401	Telephone No. (505) 599-2286
Facility Name Val Verde Gas Plant	Facility Type Amine Treating Plant

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
SE/4 SE/4	11	29N	11W					San Juan

Latitude N 36.4858" **Longitude** W 108.1200"

NATURE OF RELEASE

Type of Release Natural gas condensate and water	Volume of Release 5 -10 barrels estimated	Volume Recovered 136 cubic yards of stained soil was recovered
Source of Release Train 7 + 8 sump overflow	Date and Hour of Occurrence 3.25.2012 @ 0:630 (estimated)	Date and Hour of Discovery 3.25.2012 @ 0:6:50
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* A pump isolation valve was leaking liquids which was not discovered until after the startup of amine train 7. This caused an overflow of the sump. Operator discovered the release and shut in all equipment and piping and began working on immediate cleanup of the affected area.

Describe Area Affected and Cleanup Action Taken.* The area affected by the condensate and water is located on Enterprise property well inside the plant fence. The liquids flowed down slope from the sump area and covered an area approximately 15 feet by 40 feet average. A third party environmental contractor oversaw the cleanup efforts. The third party environmental corrective action report is attached to this c-141.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature:	OIL CONSERVATION DIVISION
Printed Name: Aaron Dailey	Approved by Environmental Specialist:
Title: Environmental Scientist	Approval Date: 6/04/2012 Expiration Date:
E-mail Address: amdailey@eprod.com	Conditions of Approval: Attached ☐
Date: 5.22.2012 Phone: (505) 599-2286	

* Attach Additional Sheets If Necessary

nJK1215638989

RCVD MAY 25 '12
OIL CONS. DIV.
DIST. 3

41

Animas Environmental Services, LLC
www.animasenvironmental.com
624 E. Comanche
Farmington, NM 87401
505-564-2281
Durango, Colorado
970-403-3274

April 19, 2012

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

RE: Valverde Plant Train 8 Sump Release Report
February 2012 Release
San Juan County, New Mexico

Dear Mr. Dailey:

On March 5, 2012, Animas Environmental Services, LLC (AES) completed an assessment associated with release of an unknown amount of natural gas condensate and water from the Enterprise Products Company (Enterprise) Valverde Plant Train 8 sump. The release, which is located approximately 2 miles northeast of Bloomfield, San Juan County, New Mexico, resulted from an overflow of the Train 8 sump at Enterprise's Valverde Plant.

1.0 Site Information

1.1 Location

Location - SE¼ NE¼, Section 14, T29N, R11W, San Juan County, New Mexico
Latitude/Longitude - N36.72841 and W107.95591, respectively
Surface Owner – Private
Figure 1 – Topographic Site Location Map
Figure 2 – Aerial Site Map
Figure 3 – Soil Borings and Sample Locations, February 2012 Release
Figure 4 – Excavation Sample Locations and Results, February 2012 Release

1.2 NMOCD Ranking

Prior to site work, the New Mexico Oil Conservation Division (NMOCD) database was reviewed, and information obtained from the facility groundwater discharge permit cites that groundwater ranges from 26 to 55 feet below ground surface (bgs) on the southern half of the facility. This information was used in determining NMOCD ranking. Additionally, the New Mexico Office of the State Engineer (NMOSE) database was reviewed for nearby private domestic water wells, and records of one nearby registered water well (SJ 0007) were located.

Once on-site, AES personnel assessed the NMOCD ranking criteria using topographical interpretation, Global Position System (GPS) elevation readings, and visual reconnaissance. Based on an elevation differential between the release location (5,587 feet above mean sea level (amsl) and information obtained from the facility discharge permit, groundwater is estimated to be less than 50 feet bgs. Distance to the nearest surface water body, Citizens Ditch, is approximately 1,000 feet southwest of the release location. One water well (SJ 0007) is located within the facility within 1,000 feet of the release location. The location was assessed a NMOCD ranking score of 20.

1.3 Assessment and Mitigation

Initial response and remediation activities were performed by Enterprise contractor West States Energy Contractors (WSEC) on February 26, 2012. WSEC contained the release and excavated soil where visible staining was observed. WSEC stockpiled the petroleum hydrocarbon contaminated soil on plastic sheeting outside the fence on the southern property boundary. After the initial response activities were completed, WSEC backfilled the excavated areas; however, no closure samples were collected.

On February 27, 2012, Tom Long of AES completed a site assessment at the release location. Six soil borings were installed to depths of 3 feet bgs with a hand auger, and soil samples were collected for field screening. Soil boring locations are included on Figure 3.

On March 5, 2012, WSEC completed an excavation south of the Train 8 sump to remove petroleum hydrocarbon contaminated soil. AES collected field screening samples to evaluate the level of soil contamination present along the walls and base of the excavation. A test hole was also excavated approximately 25 feet to the west of the south end of the excavation to confirm that no hydrocarbon contamination was present further west.

The final excavation covered an area of approximately 729 square feet with an average depth of 4 feet deep. Approximately 136 cubic yards of petroleum hydrocarbon contaminated soil were transported by Doug Foutz Construction to Industrial Ecosystems, Inc. (IEI), located near Aztec, New Mexico, for disposal. Following the collection of soil confirmation samples, the excavation was backfilled with clean imported fill. A photograph log and waste manifests are attached.

2.0 Soil Sampling

Prior to backfilling the excavation, AES personnel collected nine composite soil samples (SC-1 through SC-9) and one discrete soil sample (TH-1) from the excavation base,

excavation sidewalls, and one test hole for field screening and confirmation laboratory analyses. Excavation samples (SC-1 through SC-9) were collected at depths ranging from 3 to 5 feet bgs, and the test hole sample TH-1 was collected at above 3 feet bgs. Soil sample locations are included on Figure 4.

2.1 Field Screening

2.1.1 Volatile Organic Compounds

Field-screening for volatile organic compounds (VOC) vapors was conducted with a Photo Ionization Detector (PID) Organic Vapor Meter (OVM). Before beginning field screening, the PID-OVM was first calibrated with 100 parts per million (ppm) isobutylene gas.

2.2 Laboratory Analyses

The soil samples collected for laboratory analysis (SC-1 through SC-9 and TH-1) 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;
- TPH for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015B.

2.3 Soil Field Screening and Laboratory Analytical Results

On February 27, 2012, soil samples collected for field screening (SB-1 through SB-6) had VOC concentrations (via OVM) ranging from 0.8 ppm in SB-6 (2 feet bgs) up to 772 ppm in SB-1 (1 foot bgs). VOC readings are included in Table 1 and presented on Figure 3.

On March 5, 2012, soil field screening results showed VOC concentrations that ranged from 3.0 ppm in TH-1 up to 138 ppm in SC-9. VOC readings are included in Table 1 and on Figure 4.

Laboratory analytical results for soil samples collected at SC-1 through SC-9 and TH-1 showed that benzene, total BTEX and TPH concentrations were either below laboratory detection limits or below applicable NMOCD action levels. Laboratory analytical results are included in Table 1 and on Figure 4. Laboratory analytical reports are attached.

Table 1. Soil Field Screening and Laboratory Analytical Results
Valverde Plant Train 8 February 2012 Release

Sample ID	Sample Date	Depth (ft bgs)	VOCs OVM (ppm)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)
NMOCD Action Level*			100	10	50	100	
SB-1	2/27/12	1	**772**	NA	NA	NA	NA
	2/27/12	2	**272**	NA	NA	NA	NA
SB-2	2/27/12	1	6	NA	NA	NA	NA
	2/27/12	2	**230**	NA	NA	NA	NA
SB-3	2/27/12	1	**296**	NA	NA	NA	NA
	2/27/12	2	68	NA	NA	NA	NA
SB-4	2/27/12	1	2.1	NA	NA	NA	NA
	2/27/12	2	1.6	NA	NA	NA	NA
SB-5	2/27/12	1	2.1	NA	NA	NA	NA
	2/27/12	2	1.8	NA	NA	NA	NA
SB-6	2/27/12	1	3.5	NA	NA	NA	NA
	2/27/12	2	0.8	NA	NA	NA	NA
	2/27/12	3	5.8	NA	NA	NA	NA
SC-1	3/5/12	1-3	12.4	<0.050	<0.249	6.0	<10
SC-2	3/5/12	3	32.8	<0.049	<0.245	<4.9	<10
SC-3	3/5/12	1-3	85	<0.048	0.13	8.1	<9.9
SC-4	3/5/12	1-3	34.7	<0.048	<0.240	16	<10
SC-5	3/5/12	4	91	<0.048	0.14	<4.8	<10
SC-6	3/5/12	1-4	42	<0.049	<0.246	<4.9	<10
SC-7	3/5/12	5	20	<0.049	<0.245	<4.9	<10
SC-8	3/5/12	1-5	126	<0.049	0.38	7.1	<10
SC-9	3/5/12	1-4	138	<0.049	<0.244	<4.9	<9.9
TH-1	3/5/12	3	3.0	<0.049	<0.244	<4.9	<9.6

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

3.0 Conclusions and Recommendations

AES completed an assessment of the Valverde Plant Train 8 sump release in February and March 2012. Soil field screening and laboratory analytical results showed that concentrations for benzene, BTEX and TPH were below laboratory detection limits or well below applicable standards. Note that VOC field screening readings from SC-8 (126 ppm) and SC-9 (138 ppm) on March 5, 2012, were confirmed with laboratory analyses for benzene and BTEX and showed concentrations to be below laboratory detection limits or below the NMOCD threshold of 10 mg/kg for BTEX.

NMOCD action levels for releases are specified NMOCD's *Guidelines for Leaks, Spills, and Releases* (August 1993). Based on field observations, field screening values, and laboratory analytical results for benzene, total BTEX, and TPH, petroleum hydrocarbon impacted soils have been removed to below NMOCD action levels. No further work is recommended.

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

Sincerely,

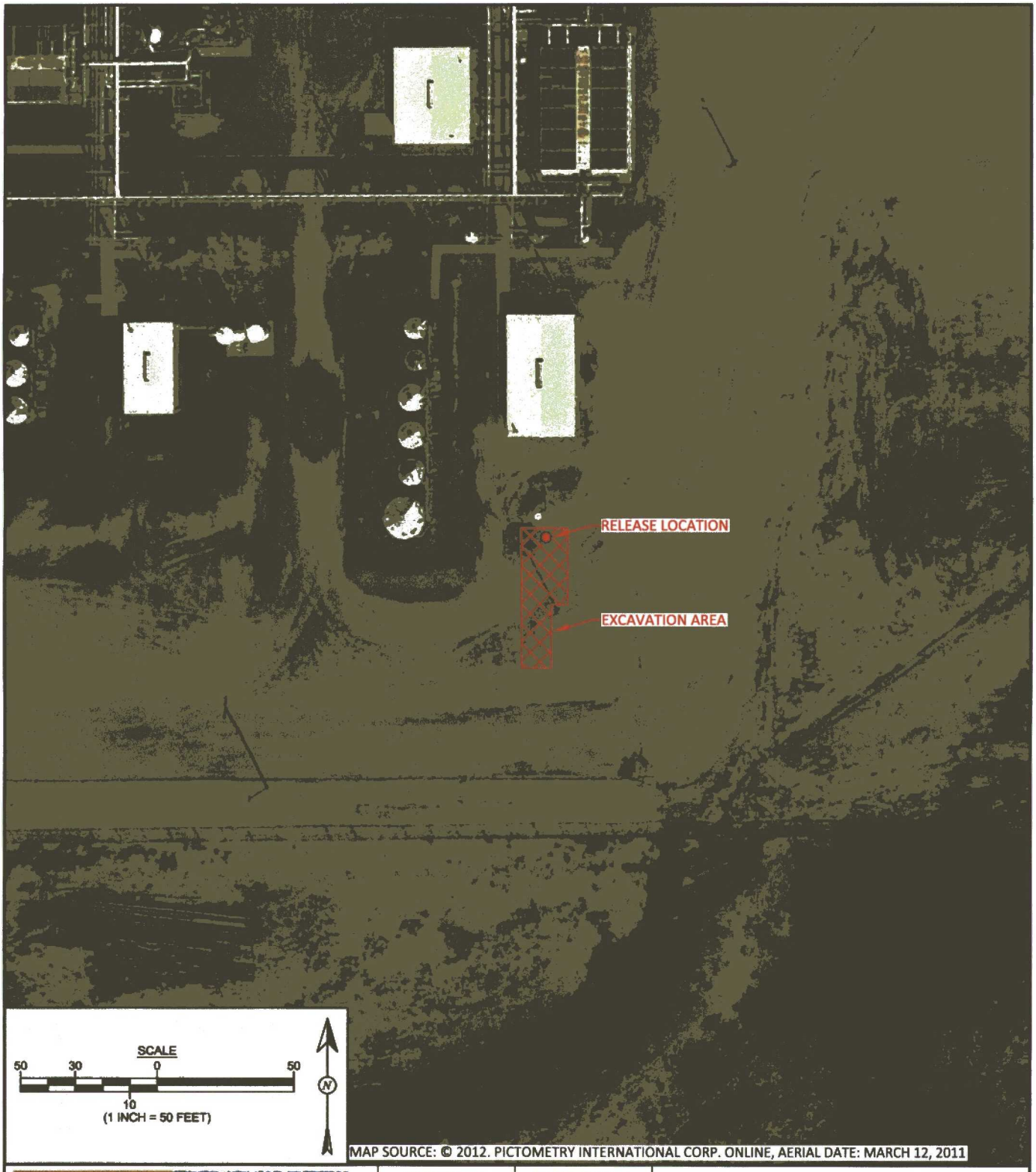
Thomas Long
Field Geologist

Elizabeth McNally, P.E.

Attachments:

Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Map
Figure 3. Soil Boring and Sample Locations, February 2012 Release
Figure 4. Excavation Sample Locations and Results, February 2012 Release
Photograph Log
Waste Disposal Manifests (C-138 documents)
Laboratory Analytical Reports (Hall 1203156)

S:\Animas 2000\2012 Projects\Enterprise\Valverde Plany\Valverde Plant Train 8 Sump Release Report 041912.docx



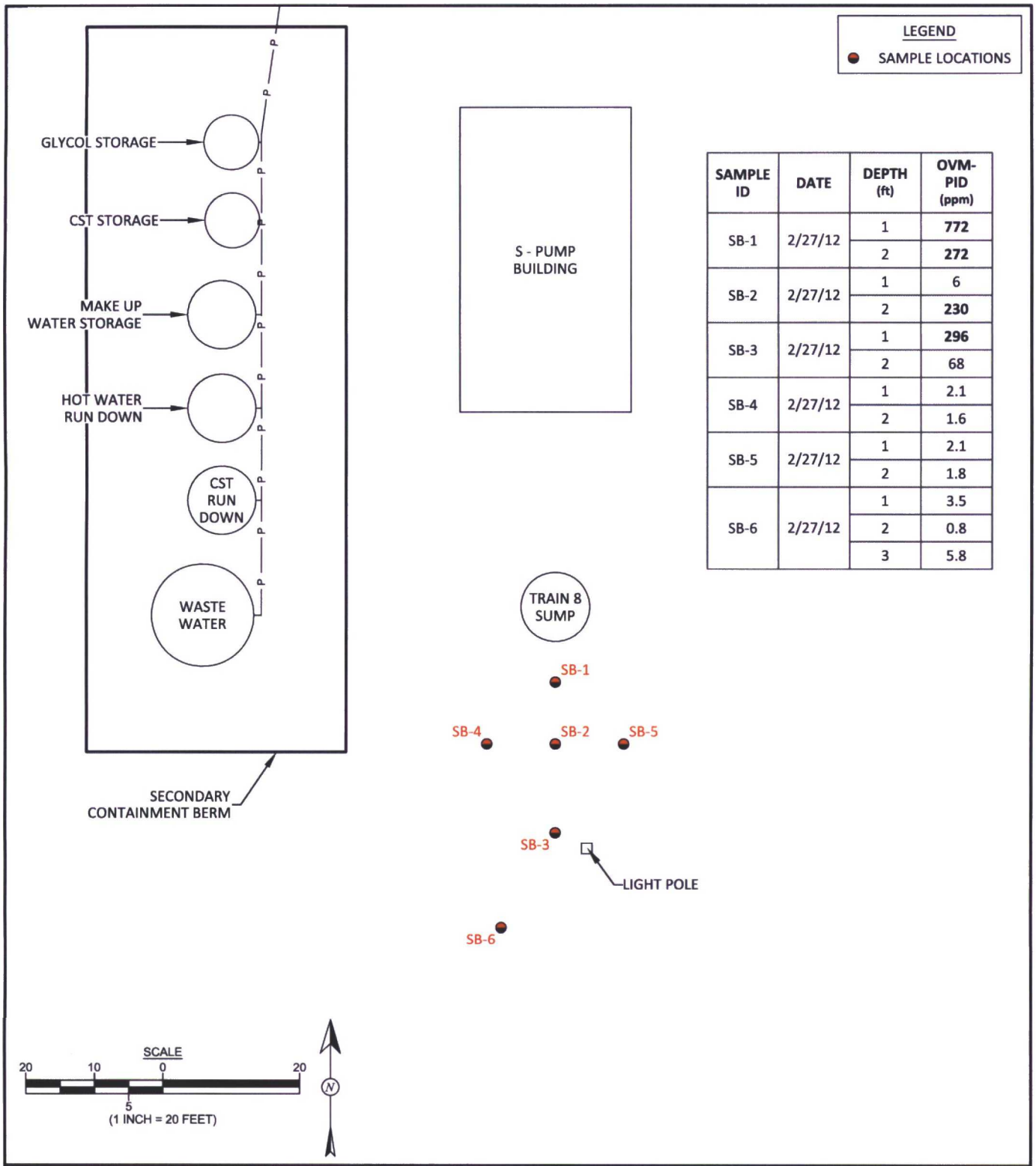
MAP SOURCE: © 2012. PICTOMETRY INTERNATIONAL CORP. ONLINE, AERIAL DATE: MARCH 12, 2011

Animas Environmental Services, LLC

DRAWN BY: C. Lameman	**DATE DRAWN:** February 28, 2012
REVISIONS BY: C. Lameman	**DATE REVISED:** February 28, 2012
CHECKED BY: T. Long	**DATE CHECKED:** March 14, 2012
APPROVED BY: E. McNally	**DATE APPROVED:** April 19, 2012

FIGURE 2

AERIAL SITE MAP
ENTERPRISE PRODUCTS COMPANY
VALVERDE PLANT
SAN JUAN COUNTY, NEW MEXICO
SE¼, NE¼, SECTION 14, T29N, R11W
N36.72841, W107.95591



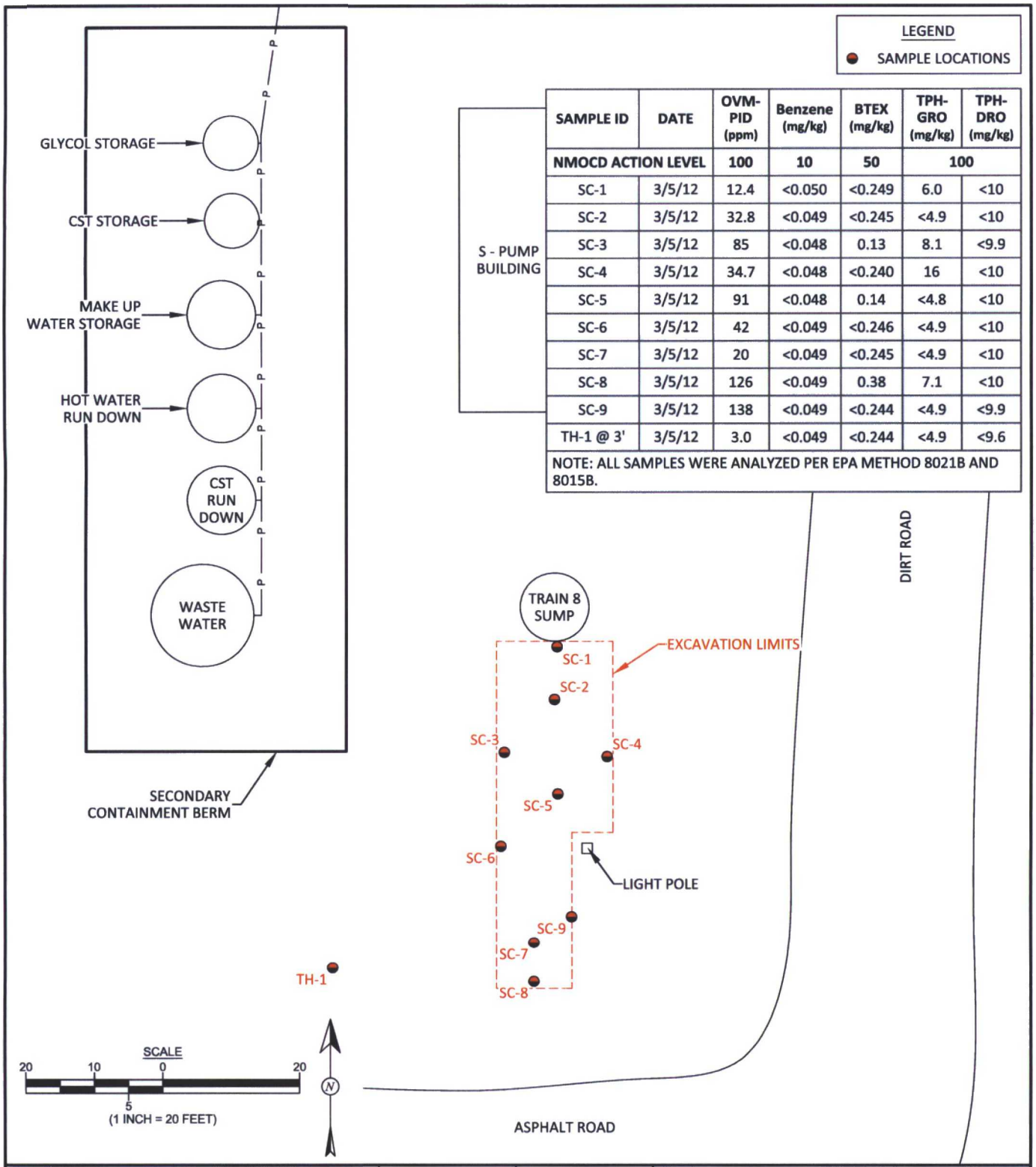
SAMPLE ID	DATE	DEPTH (ft)	OVM-PID (ppm)
SB-1	2/27/12	1	**772**
		2	**272**
SB-2	2/27/12	1	6
		2	**230**
SB-3	2/27/12	1	**296**
		2	68
SB-4	2/27/12	1	2.1
		2	1.6
SB-5	2/27/12	1	2.1
		2	1.8
SB-6	2/27/12	1	3.5
		2	0.8
		3	5.8

Animas Environmental Services, LLC

DRAWN BY: C. Lameman	**DATE DRAWN:** February 28, 2012
REVISIONS BY: C. Lameman	**DATE REVISED:** March 6, 2012
CHECKED BY: T. Long	**DATE CHECKED:** March 14, 2012
APPROVED BY: E. McNally	**DATE APPROVED:** April 19, 2012

FIGURE 3

SOIL BORINGS AND SAMPLE LOCATIONS, FEBRUARY 2012 RELEASE
ENTERPRISE PRODUCTS COMPANY
VALVERDE PLANT
SAN JUAN COUNTY, NEW MEXICO
SE¼, NE¼, SECTION 14, T29N, R11W
N36.72841, W107.95591



SAMPLE ID	DATE	OVM-PID (ppm)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)
NMOCD ACTION LEVEL		100	10	50	100	
SC-1	3/5/12	12.4	<0.050	<0.249	6.0	<10
SC-2	3/5/12	32.8	<0.049	<0.245	<4.9	<10
SC-3	3/5/12	85	<0.048	0.13	8.1	<9.9
SC-4	3/5/12	34.7	<0.048	<0.240	16	<10
SC-5	3/5/12	91	<0.048	0.14	<4.8	<10
SC-6	3/5/12	42	<0.049	<0.246	<4.9	<10
SC-7	3/5/12	20	<0.049	<0.245	<4.9	<10
SC-8	3/5/12	126	<0.049	0.38	7.1	<10
SC-9	3/5/12	138	<0.049	<0.244	<4.9	<9.9
TH-1 @ 3'	3/5/12	3.0	<0.049	<0.244	<4.9	<9.6

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

Animas Environmental Services, LLC

DRAWN BY: C. Lameman	**DATE DRAWN:** March 6, 2012
REVISIONS BY: C. Lameman	**DATE REVISED:** March 6, 2012
CHECKED BY: T. Long	**DATE CHECKED:** March 14, 2012
APPROVED BY: E. McNally	**DATE APPROVED:** April 19, 2012

FIGURE 4

EXCAVATION SAMPLE LOCATIONS AND RESULTS, FEBRUARY 2012 RELEASE
ENTERPRISE PRODUCTS COMPANY
VALVERDE PLANT
SAN JUAN COUNTY, NEW MEXICO
SE¼, NE¼, SECTION 14, T29N, R11W
N36.72841, W107.95591

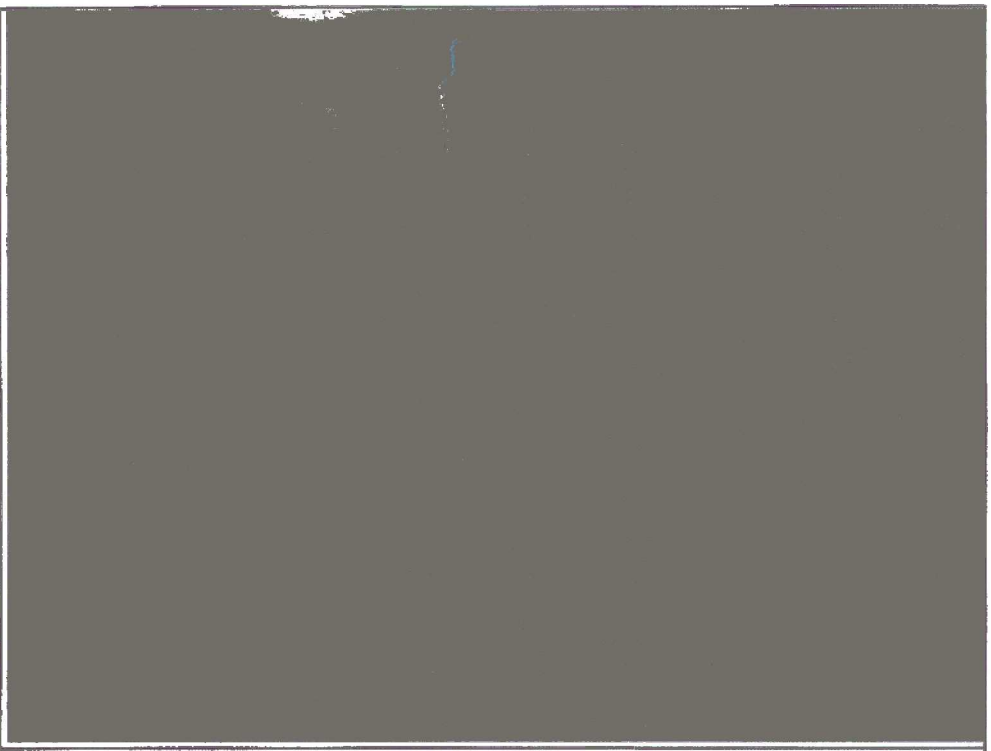
Photo #1	
Client: Enterprise Products Company	
Project: Val Verde Plant Train 8 Sump Release	
Taken by: Tom Long	
February 27, 2012	
AES Project No: 120236	Description: View soil boring SB-1 during the initial investigation.

Photo #2	
Client: Enterprise Products Company	
Project: Val Verde Plant Train 8 Sump Release	
Taken by: Tom Long	
February 27, 2012	
AES Project No: 120236	Description: View of the excavation activities for the Train 8 sump overflow.

Photo #3	
Client: Enterprise Products Company	
Project: Val Verde Plant Train 8 Sump Release	
Taken by: Tom Long	
February 27, 2012	
AES Project No: 120236	Description: View of the excavation activities for the Train 8 sump overflow, View to the south.

Photo #4	
Client: Enterprise Products Company	
Project: Val Verde Plant Train 8 Sump Release	
Taken by: Tom Long	
February 27, 2012	
AES Project No: 120236	Description: View of the excavation activities for the Train 8 sump overflow.

Photo #5	
Client: Enterprise Products Company	
Project: Val Verde Plant Train 8 Sump Release	
Taken by: Tom Long	
February 27, 2012	
AES Project No: 120236	Description: View of the excavation activities for the Train 8 sump overflow.

Photo #6	
Client: Enterprise Products Company	
Project: Val Verde Plant Train 8 Sump Release	
Taken by: Tom Long	
February 27, 2012	
AES Project No: 120236	Description: View of the western leg of the excavation and the test hole to the west.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-138
Revised 08/01/11

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

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:
Enterprise Products Operating, L.P.

2. Originating Site:
Val Verde Gas Treating Facility PAyker : JA13061

3. Location of Material (Street Address, City, State or ULSTR):
Sec 14/T29N/R11W, Lat 107.9820W Lon 36.7327N, 1119 County Road 4900, Bloomfield, NM 87413 3-7-12 60cy

4. Source and Description of Waste:
Source: Amine train 7 and 8 Sump Area 3-6-12 40cy
Description: Exempt condensate stained soil from release cleanup activities
Estimated Volume 40 yd³ / bbls Known Volume (to be entered by the operator at the end of the haul) 360 (yd³) / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

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

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

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

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☒ Process Knowledge ☐ Other (Provide description in Box

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, _____, representative for Enterprise Products authorize JFJ/IEI to com
Generator Signature
the required testing/sign the Generator Waste Testing Certification.

I, _____, representative for JEI do hereby certify that
Representative/Agent Signature
representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. Transporter: West States Energy Contractors (505)632-6988 Doug Fautz

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: **JFJ Landfarm/Industrial Ecosystems, Inc. * Permit #: NM 01-0010B**

Address of Facility: **# 49 CR 3150 Aztec, NM 87410**

Method of Treatment and/or Disposal:

☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

CL 2/2 Ph-C

Waste Acceptance Status:

☒ **APPROVED** ☐ **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: L. Machado TITLE: Clerical DATE: 3-5-12

SIGNATURE: _____ TELEPHONE NO.: 505-632-1782
Surface Waste Management Facility Authorized Agent

3/5/12

Requested Disposal Facility: ___BONDAD LANDFILL_____

Waste Profile #
WCA Sales Rep:Susan Wright
Date: _____APRIL 16, 2012___

I. Generator Information

Generator Name : ENTERPRISE PRODUCTS COMPANY			
Generator Site Address: UNIT H, SEC 14, T29N, R11W; N 36.72841, W 107.95591			
City:	County: SAN JUAN	State: NEW MEXICO	Zip:
Generator Mailing Address(If Different): 614 REILLY AVENUE			
City: FARMINGTON	County: SAN JUAN	State: NM	Zip: 87401
Generator Contact Name (print): AARON DAILEY			
Phone Number: 505-599-2286		Fax Number:	

IIa. Transporter Information

Transporter Name: TO BE DETERMINED		Transporter Contact Name:	
Transporter Address:			
City:	County:	State:	Zip:
Phone Number:		Fax Number:	

IIb. Billing Information

Bill To: ENTERPRISE PRODUCTS COMPANY			
Billing Address: 614 REILLY AVENUE			
City: FARMINGTON	County: SAN JUAN	State: NM	Zip: 87401

III. Waste Stream Information

Name of Waste: CARBON MEDIA
Process Generating Waste: EXEMPT WASTE FROM NATURAL GAS PROCESSING AND TREATING PER
40 CFR 261.4(b)(5)
Type of Waste: ___X__ Industrial Process Waste ____ Pollution Control Waste
Physical State: __X__Solid ___ Semi-Solid ___ Powder ___ Liquid ___ Other :_____
Method of Shipment: __X___ Bulk _____ Bagged _____ Other: _____
Estimated Annual Volume: _600____ Cubic Yards _____ Tons _____ Gallons _____ Other:
Frequency: _____ One Time _____ Daily ____ Weekly _X___ Monthly ____ Other
Special Handling Instructions:

IV. Representative Sample Certification

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent rules? ___X____ Yes _____ No		
Sample Date: 4/10/2012	Type of Sample: __X__ Composite Sample ____ Grab Sample	
Laboratory: HALL ENVIRONMENTAL ANALYTICAL	Sample ID Numbers: Carbon Media	SEE ANALYTICAL REPORTS
Sampler's Employer: ANIMAS ENVIRONMENTAL SERVICES		
Sampler's Name (printed): Kelsey Christiansen	Signature: Kelsey Christiansen	

Waste Profile #

V. Physical Characteristics of Waste

Characteristic Components	% by weight (range)
1. CARBON MEDIA	100

Color	Odor (describe)	Free Liquids	% Solids	pH:	Flash Point:	Phenol
BLACK	HYDROCARBON	___Yes _X__ No Content _____ %	100		_____°F	_____ ppm

Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) Including Required Parameters provided for this Profile

Does this waste or generating process contain regulated concentrations of the following Pesticides and/or Herbicides: Chlordane, Endrin, Heptachlor (and it epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2, 4,5-TP Silvex as defined in 40 CFR 261.33?	___ Yes or _X__ No
Does this waste or generating process cause it to exceed OSHA exposure limits from high levels of Hydrogen Sulfide or Hydrogen Cyanide as defined in 40 CFR 261.23?	___ Yes or _X__ No
Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCB's) as defined in 40 CFR Part 761?	___ Yes or _X__ No
Does this waste contain regulated concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents?	___ Yes or __X_ No
Does this waste contain regulated concentrations of 2,3,4,8-Tetrachlorodibenzodioxin (2,3,7,8-TCCD), or any other dioxin as defined in 40 CR 261.31?	___ Yes or __X_ No
Is this a regulated Toxic Material as defined by Federal and/or State regulations?	___ Yes or __X_ No
Is this a regulated Radioactive Waste as defined by Federal and/or State regulations?	___ Yes or _X__ No
Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?	___ Yes or __X_ No
Is this waste generated at a Federal Superfund Clean Up Site?	___ Yes or __X_ No

VI. Generator Certification

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. All Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste. I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to full indemnify this disposal facility/recycling facility against any damages resulting from this certification being inaccurate or untrue. I further certify that the company has not altered the form or content of this profile sheet as provided by A Clean Environment. The undersigned individual warrants that he/she is authorized to sign this document on behalf of the Generator.

AARON DAILEY, ENVIRONMENTAL SPECIALIST

Authorized Representative Name And Title (Printed)

ENTERPRISE PRODUCTS COMPANY
Company Name

Authorized Representative Signature

APRIL 16, 2012
Date

VII. Decision

___ Approved ____ Rejected Expiration:_____

Conditions:

_____ _____ _____

Name, Title Signature Date

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

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

April 13, 2012

Tami Ross

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

RE: Enterprise Val Verde Plants OrderNo.: 1204427

Dear Tami Ross:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/11/2012 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 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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Carbon Media
Project: Enterprise Val Verde Plants
Collection Date: 4/10/2012 4:30:00 PM
Lab ID: 1204427-001
Matrix: MEOH (SOIL)
Received Date: 4/11/2012 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	110,000	2,000		mg/Kg	200	4/12/2012 2:41:49 PM
Motor Oil Range Organics (MRO)	ND	10,000		mg/Kg	200	4/12/2012 2:41:49 PM
Surr: DNOP	0	77.4-131	S	%REC	200	4/12/2012 2:41:49 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	240	100		mg/Kg	20	4/12/2012 6:31:55 PM
Surr: BFB	108	69.7-121		%REC	20	4/12/2012 6:31:55 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	12	1.0		mg/Kg	20	4/12/2012 6:31:55 PM
Toluene	56	1.0		mg/Kg	20	4/12/2012 6:31:55 PM
Ethylbenzene	2.9	1.0		mg/Kg	20	4/12/2012 6:31:55 PM
Xylenes, Total	16	2.0		mg/Kg	20	4/12/2012 6:31:55 PM
Surr: 4-Bromofluorobenzene	99.7	80-120		%REC	20	4/12/2012 6:31:55 PM

Qualifiers:

*/X	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
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1204427**

13-Apr-12

Client: Animas Environmental Services

Project: Enterprise Val Verde Plants

Sample ID **MB-1481**	SampType: **MBLK**			TestCode: **EPA Method 8015B: Diesel Range Organics**					
Client ID: **PBS**	Batch ID: **1481**			RunNo: **2046**					
Prep Date: **4/11/2012**	Analysis Date: **4/11/2012**			SeqNo: **57041**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.9		10.00		99.4	77.4	131			

Sample ID **LCS-1481**	SampType: **LCS**			TestCode: **EPA Method 8015B: Diesel Range Organics**					
Client ID: **LCSS**	Batch ID: **1481**			RunNo: **2046**					
Prep Date: **4/11/2012**	Analysis Date: **4/11/2012**			SeqNo: **57042**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	10	50.00	0	82.8	62.7	139			
Surr: DNOP	4.7		5.000		93.0	77.4	131			

Sample ID **MB-1505**	SampType: **MBLK**			TestCode: **EPA Method 8015B: Diesel Range Organics**					
Client ID: **PBS**	Batch ID: **1505**			RunNo: **2071**					
Prep Date: **4/12/2012**	Analysis Date: **4/12/2012**			SeqNo: **57799**		Units: **%REC**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.5		10.00		95.4	77.4	131			

Sample ID **LCS-1505**	SampType: **LCS**			TestCode: **EPA Method 8015B: Diesel Range Organics**					
Client ID: **LCSS**	Batch ID: **1505**			RunNo: **2071**					
Prep Date: **4/12/2012**	Analysis Date: **4/12/2012**			SeqNo: **57804**		Units: **%REC**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.5		5.000		89.5	77.4	131			

Qualifiers:

*/X	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
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1204427**

13-Apr-12

Client: Animas Environmental Services

Project: Enterprise Val Verde Plants

Sample ID **B5**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **PBS**	Batch ID: **R2054**	RunNo: **2054**
Prep Date:	Analysis Date: **4/11/2012**	SeqNo: **57183** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1,000		1,000		100	69.7	121			

Sample ID **2.5UG GRO LCS**	SampType: **LCS**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **LCSS**	Batch ID: **R2054**	RunNo: **2054**
Prep Date:	Analysis Date: **4/11/2012**	SeqNo: **57436** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1,100		1,000		111	69.7	121			

Sample ID **1204426-002AMS**	SampType: **MS**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **BatchQC**	Batch ID: **R2054**	RunNo: **2054**
Prep Date:	Analysis Date: **4/11/2012**	SeqNo: **57437** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	770		649.7		119	69.7	121			

Sample ID **1204426-002AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **BatchQC**	Batch ID: **R2054**	RunNo: **2054**
Prep Date:	Analysis Date: **4/11/2012**	SeqNo: **57438** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	790		649.7		121	69.7	121	0	0	S

Sample ID **MB-1460**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **PBS**	Batch ID: **1460**	RunNo: **2089**
Prep Date: **4/10/2012**	Analysis Date: **4/12/2012**	SeqNo: **58688** 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	1,000		1,000		101	69.7	121			

Sample ID **LCS-1460**	SampType: **LCS**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **LCSS**	Batch ID: **1460**	RunNo: **2089**
Prep Date: **4/10/2012**	Analysis Date: **4/12/2012**	SeqNo: **58689** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	5.0	25.00	0	121	98.5	133			
Surr: BFB	1,100		1,000		112	69.7	121			

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1204427**

13-Apr-12

Client: Animas Environmental Services

Project: Enterprise Val Verde Plants

Sample ID **1204362-001AMS**	SampType: **MS**			TestCode: **EPA Method 8015B: Gasoline Range**					
Client ID: **BatchQC**	Batch ID: **1460**			RunNo: **2089**					
Prep Date: **4/10/2012**	Analysis Date: **4/12/2012**			SeqNo: **58709**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	4.7	23.74	14.69	63.3	85.4	147			S
Surr: BFB	1,100		949.7		112	69.7	121			

Sample ID **1204362-001AMSD**	SampType: **MSD**			TestCode: **EPA Method 8015B: Gasoline Range**					
Client ID: **BatchQC**	Batch ID: **1460**			RunNo: **2089**					
Prep Date: **4/10/2012**	Analysis Date: **4/12/2012**			SeqNo: **58710**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	4.7	23.70	14.69	64.6	85.4	147	0.922	19.2	S
Surr: BFB	1,100		947.9		114	69.7	121	0	0	

Qualifiers:

*/X	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
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1204427**

13-Apr-12

Client: Animas Environmental Services

Project: Enterprise Val Verde Plants

Sample ID **B5**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **R2054**	RunNo: **2054**
Prep Date:	Analysis Date: **4/11/2012**	SeqNo: **57190** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.96		1.000		95.8	80	120			

Sample ID **1204426-003AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BatchQC**	Batch ID: **R2054**	RunNo: **2054**
Prep Date:	Analysis Date: **4/11/2012**	SeqNo: **57456** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.73		0.7231		101	80	120			

Sample ID **1204426-003AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BatchQC**	Batch ID: **R2054**	RunNo: **2054**
Prep Date:	Analysis Date: **4/11/2012**	SeqNo: **57457** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.74		0.7231		103	80	120	0	0	

Sample ID **100NG BTEX LCS**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **R2054**	RunNo: **2054**
Prep Date:	Analysis Date: **4/11/2012**	SeqNo: **57458** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.99		1.000		98.6	80	120			

Sample ID **MB-1460**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **1460**	RunNo: **2089**
Prep Date: **4/10/2012**	Analysis Date: **4/12/2012**	SeqNo: **58717** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.96		1.000		96.1	80	120			

Sample ID **LCS-1460**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **1460**	RunNo: **2089**
Prep Date: **4/10/2012**	Analysis Date: **4/12/2012**	SeqNo: **58718** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

Sample ID **1204365-001AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BatchQC**	Batch ID: **1460**	RunNo: **2089**
Prep Date: **4/10/2012**	Analysis Date: **4/12/2012**	SeqNo: **58737** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.95		0.9434		101	80	120			

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1204427**

13-Apr-12

Client: Animas Environmental Services

Project: Enterprise Val Verde Plants

Sample ID	**1204365-001AMSD**	SampType: **MSD**		TestCode: **EPA Method 8021B: Volatiles**					
Client ID:	**BatchQC**	Batch ID: **1460**		RunNo: **2089**					
Prep Date:	**4/10/2012**	Analysis Date: **4/12/2012**		SeqNo: **58738**		Units: **%REC**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.97		0.9560		102	80	120	0	0	

Qualifiers:

*/X	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
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **Animas Environmental** Work Order Number: **1204427**

Received by/date: 04/11/12

Logged By: **Ashley Gallegos** **4/11/2012 10:05:00 AM**

Completed By: **Ashley Gallegos** **4/11/2012 10:14:16 AM**

Reviewed By: 04/11/12

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	# 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 °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.3	Good	Not Present			

Chain-of-Custody Record

Client: Animas Environmental Services

Mailing Address: 624 E. Comanche

Farmington, 87401 NM

Phone #: 505-564-2281

email or Fax#: tross@animasenvironmental.com

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:

☐ Standard ☒ Rush by end of day 4/13/12

Project Name: Enterprise Val Verde Plant

Project #:

Project Manager: TAMI ROSS

Sampler: Kelsey Christiansen

On Ice: ☒ Yes ☐ No

Sample Temperature: 2.3

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1204125	BTEX + ~~MTBE~~ + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1) MRO	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
4/10/12	1630	SOLID	CARBON MEDIA	Heat Tk #802	MeOH Tk	-001	X		X													

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Date	Time
4/10	1647	Kelsey Clinton	Christine Walters	4/10/12	1647
4/10/12	1710	Christine Walters		04/11/12	1005

Remarks: Bill to Enterprise Products Co

INCLUDE DRO/GRO/MRO

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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

March 08, 2012

Ross Kennemer

Animas Environmental Services
624 East Comanche
Farmington, NM 87401
TEL: (505) 564-2281
FAX (505) 324-2022

RE: Val Verde Plant Samp Overflow OrderNo.: 1203156

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory received 10 sample(s) on 3/6/2012 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 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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **1203156**
Date Reported: **3/8/2012**

CLIENT: Animas Environmental Services
Project: Val Verde Plant Samp Overflow
Lab ID: 1203156-001 **Matrix:** SOIL

Client Sample ID: SC-1
Collection Date: 3/5/2012 10:55:00 AM
Received Date: 3/6/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/7/2012 2:59:02 PM
Surr: DNOP	85.7	77.4-131		%REC	1	3/7/2012 2:59:02 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	6.0	5.0		mg/Kg	1	3/7/2012 12:27:33 PM
Surr: BFB	116	69.7-121		%REC	1	3/7/2012 12:27:33 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.050		mg/Kg	1	3/7/2012 12:27:33 PM
Toluene	ND	0.050		mg/Kg	1	3/7/2012 12:27:33 PM
Ethylbenzene	ND	0.050		mg/Kg	1	3/7/2012 12:27:33 PM
Xylenes, Total	ND	0.099		mg/Kg	1	3/7/2012 12:27:33 PM
Surr: 4-Bromofluorobenzene	99.8	85.3-139		%REC	1	3/7/2012 12:27:33 PM

Qualifiers:

*/X	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
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: SC-2
Project: Val Verde Plant Samp Overflow
Collection Date: 3/5/2012 10:58:00 AM
Lab ID: 1203156-002 **Matrix:** SOIL **Received Date:** 3/6/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/7/2012 10:37:18 AM
Surr: DNOP	81.7	77.4-131		%REC	1	3/7/2012 10:37:18 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/7/2012 12:57:48 PM
Surr: BFB	103	69.7-121		%REC	1	3/7/2012 12:57:48 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.049		mg/Kg	1	3/7/2012 12:57:48 PM
Toluene	ND	0.049		mg/Kg	1	3/7/2012 12:57:48 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/7/2012 12:57:48 PM
Xylenes, Total	ND	0.098		mg/Kg	1	3/7/2012 12:57:48 PM
Surr: 4-Bromofluorobenzene	101	85.3-139		%REC	1	3/7/2012 12:57:48 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.
E	Value above quantitation range
J	Analyte detected below quantitation limits
R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: SC-3
Project: Val Verde Plant Samp Overflow
Collection Date: 3/5/2012 11:40:00 AM
Lab ID: 1203156-003 **Matrix:** SOIL
Received Date: 3/6/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/7/2012 10:58:40 AM
Surr: DNOP	87.1	77.4-131		%REC	1	3/7/2012 10:58:40 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	8.1	4.8		mg/Kg	1	3/7/2012 1:27:56 PM
Surr: BFB	117	69.7-121		%REC	1	3/7/2012 1:27:56 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.048		mg/Kg	1	3/7/2012 1:27:56 PM
Toluene	ND	0.048		mg/Kg	1	3/7/2012 1:27:56 PM
Ethylbenzene	ND	0.048		mg/Kg	1	3/7/2012 1:27:56 PM
Xylenes, Total	0.13	0.095		mg/Kg	1	3/7/2012 1:27:56 PM
Surr: 4-Bromofluorobenzene	103	85.3-139		%REC	1	3/7/2012 1:27:56 PM

Qualifiers:

*/X	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
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: SC-4
Project: Val Verde Plant Samp Overflow
Collection Date: 3/5/2012 11:50:00 AM
Lab ID: 1203156-004 **Matrix:** SOIL **Received Date:** 3/6/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/7/2012 11:20:13 AM
Surr: DNOP	90.1	77.4-131		%REC	1	3/7/2012 11:20:13 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	16	4.8		mg/Kg	1	3/7/2012 1:58:18 PM
Surr: BFB	106	69.7-121		%REC	1	3/7/2012 1:58:18 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.048		mg/Kg	1	3/7/2012 1:58:18 PM
Toluene	ND	0.048		mg/Kg	1	3/7/2012 1:58:18 PM
Ethylbenzene	ND	0.048		mg/Kg	1	3/7/2012 1:58:18 PM
Xylenes, Total	ND	0.096		mg/Kg	1	3/7/2012 1:58:18 PM
Surr: 4-Bromofluorobenzene	103	85.3-139		%REC	1	3/7/2012 1:58:18 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.
E	Value above quantitation range
J	Analyte detected below quantitation limits
R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: SC-5
Project: Val Verde Plant Samp Overflow
Collection Date: 3/5/2012 1:07:00 PM
Lab ID: 1203156-005 **Matrix:** SOIL **Received Date:** 3/6/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/7/2012 12:03:08 PM
Surr: DNOP	90.9	77.4-131		%REC	1	3/7/2012 12:03:08 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/7/2012 2:28:41 PM
Surr: BFB	111	69.7-121		%REC	1	3/7/2012 2:28:41 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.048		mg/Kg	1	3/7/2012 2:28:41 PM
Toluene	ND	0.048		mg/Kg	1	3/7/2012 2:28:41 PM
Ethylbenzene	ND	0.048		mg/Kg	1	3/7/2012 2:28:41 PM
Xylenes, Total	0.14	0.095		mg/Kg	1	3/7/2012 2:28:41 PM
Surr: 4-Bromofluorobenzene	103	85.3-139		%REC	1	3/7/2012 2:28:41 PM

Qualifiers:

*/X	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
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: SC-6
Project: Val Verde Plant Samp Overflow
Collection Date: 3/5/2012 1:47:00 PM
Lab ID: 1203156-006
Matrix: SOIL
Received Date: 3/6/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/7/2012 12:24:33 PM
Surr: DNOP	88.9	77.4-131		%REC	1	3/7/2012 12:24:33 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/7/2012 2:58:40 PM
Surr: BFB	111	69.7-121		%REC	1	3/7/2012 2:58:40 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.049		mg/Kg	1	3/7/2012 2:58:40 PM
Toluene	ND	0.049		mg/Kg	1	3/7/2012 2:58:40 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/7/2012 2:58:40 PM
Xylenes, Total	ND	0.099		mg/Kg	1	3/7/2012 2:58:40 PM
Surr: 4-Bromofluorobenzene	103	85.3-139		%REC	1	3/7/2012 2:58:40 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.
E	Value above quantitation range
J	Analyte detected below quantitation limits
R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: SC-7
Project: Val Verde Plant Samp Overflow
Collection Date: 3/5/2012 2:58:00 PM
Lab ID: 1203156-007 **Matrix:** SOIL **Received Date:** 3/6/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/7/2012 12:46:05 PM
Surr: DNOP	92.2	77.4-131		%REC	1	3/7/2012 12:46:05 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/7/2012 3:28:55 PM
Surr: BFB	94.5	69.7-121		%REC	1	3/7/2012 3:28:55 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.049		mg/Kg	1	3/7/2012 3:28:55 PM
Toluene	ND	0.049		mg/Kg	1	3/7/2012 3:28:55 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/7/2012 3:28:55 PM
Xylenes, Total	ND	0.098		mg/Kg	1	3/7/2012 3:28:55 PM
Surr: 4-Bromofluorobenzene	93.8	85.3-139		%REC	1	3/7/2012 3:28:55 PM

Qualifiers:

*/X	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
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Project: Val Verde Plant Samp Overflow
Lab ID: 1203156-008 **Matrix:** SOIL

Client Sample ID: SC-8
Collection Date: 3/5/2012 3:01:00 PM
Received Date: 3/6/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/7/2012 1:07:32 PM
Surr: DNOP	89.2	77.4-131		%REC	1	3/7/2012 1:07:32 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	7.1	4.9		mg/Kg	1	3/7/2012 3:59:17 PM
Surr: BFB	117	69.7-121		%REC	1	3/7/2012 3:59:17 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.049		mg/Kg	1	3/7/2012 3:59:17 PM
Toluene	ND	0.049		mg/Kg	1	3/7/2012 3:59:17 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/7/2012 3:59:17 PM
Xylenes, Total	0.38	0.099		mg/Kg	1	3/7/2012 3:59:17 PM
Surr: 4-Bromofluorobenzene	102	85.3-139		%REC	1	3/7/2012 3:59:17 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.
E	Value above quantitation range
J	Analyte detected below quantitation limits
R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: SC-9
Project: Val Verde Plant Samp Overflow
Collection Date: 3/5/2012 3:04:00 PM
Lab ID: 1203156-009 **Matrix:** SOIL **Received Date:** 3/6/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/7/2012 3:20:35 PM
Surr: DNOP	87.9	77.4-131		%REC	1	3/7/2012 3:20:35 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/7/2012 4:29:27 PM
Surr: BFB	86.8	69.7-121		%REC	1	3/7/2012 4:29:27 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.049		mg/Kg	1	3/7/2012 4:29:27 PM
Toluene	ND	0.049		mg/Kg	1	3/7/2012 4:29:27 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/7/2012 4:29:27 PM
Xylenes, Total	ND	0.097		mg/Kg	1	3/7/2012 4:29:27 PM
Surr: 4-Bromofluorobenzene	85.8	85.3-139		%REC	1	3/7/2012 4:29:27 PM

Qualifiers:

*/X	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
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: TH-1@3'
Project: Val Verde Plant Samp Overflow
Collection Date: 3/5/2012 3:05:00 PM
Lab ID: 1203156-010 **Matrix:** SOIL
Received Date: 3/6/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/7/2012 3:42:10 PM
Surr: DNOP	88.2	77.4-131		%REC	1	3/7/2012 3:42:10 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/7/2012 4:59:36 PM
Surr: BFB	85.2	69.7-121		%REC	1	3/7/2012 4:59:36 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.049		mg/Kg	1	3/7/2012 4:59:36 PM
Toluene	ND	0.049		mg/Kg	1	3/7/2012 4:59:36 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/7/2012 4:59:36 PM
Xylenes, Total	ND	0.097		mg/Kg	1	3/7/2012 4:59:36 PM
Surr: 4-Bromofluorobenzene	84.3	85.3-139	S	%REC	1	3/7/2012 4:59:36 PM

Qualifiers:

*/X	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
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1203156**

08-Mar-12

Client: Animas Environmental Services

Project: Val Verde Plant Samp Overflow

Sample ID **MB-966**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **966**	RunNo: **1303**
Prep Date: **3/6/2012**	Analysis Date: **3/7/2012**	SeqNo: **37163** 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	8.9		10.00		88.7	77.4	131			

Sample ID **LCS-966**	SampType: **LCS**	TestCode: **EPA Method 8015B: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **966**	RunNo: **1303**
Prep Date: **3/6/2012**	Analysis Date: **3/7/2012**	SeqNo: **37224** 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	87.7	62.7	139			
Surr: DNOP	4.3		5.000		86.5	77.4	131			

Qualifiers:

*/X	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
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1203156**

08-Mar-12

Client: Animas Environmental Services

Project: Val Verde Plant Samp Overflow

Sample ID **MB-962**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **PBS**	Batch ID: **962**	RunNo: **1340**
Prep Date: **3/6/2012**	Analysis Date: **3/7/2012**	SeqNo: **37738** 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		1,000		96.2	69.7	121			

Sample ID **LCS-962**	SampType: **LCS**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **LCSS**	Batch ID: **962**	RunNo: **1340**
Prep Date: **3/6/2012**	Analysis Date: **3/7/2012**	SeqNo: **37741** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	31	5.0	25.00	0	125	98.5	133			
Surr: BFB	1,000		1,000		104	69.7	121			

Sample ID **1203156-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **SC-1**	Batch ID: **962**	RunNo: **1340**
Prep Date: **3/6/2012**	Analysis Date: **3/7/2012**	SeqNo: **37742** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	35	4.8	24.25	6.024	119	85.4	147			
Surr: BFB	1,000		969.9		105	69.7	121			

Sample ID **1203156-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **SC-1**	Batch ID: **962**	RunNo: **1340**
Prep Date: **3/6/2012**	Analysis Date: **3/7/2012**	SeqNo: **37743** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	41	4.9	24.51	6.024	142	85.4	147	15.6	19.2	
Surr: BFB	1,000		980.4		105	69.7	121	0	0	

Qualifiers:

*/X	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
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1203156**

08-Mar-12

Client: Animas Environmental Services

Project: Val Verde Plant Samp Overflow

Sample ID **MB-962**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **962**	RunNo: **1340**
Prep Date: **3/6/2012**	Analysis Date: **3/7/2012**	SeqNo: **37756** 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		99.4	85.3	139			

Sample ID **LCS-962**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **962**	RunNo: **1340**
Prep Date: **3/6/2012**	Analysis Date: **3/7/2012**	SeqNo: **37771** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.050	1.000	0	98.2	83.3	107			
Toluene	0.99	0.050	1.000	0	99.4	74.3	115			
Ethylbenzene	1.1	0.050	1.000	0	105	80.9	122			
Xylenes, Total	3.3	0.10	3.000	0	109	85.2	123			
Surr: 4-Bromofluorobenzene	1.1		1.000		107	85.3	139			

Sample ID **1203156-002AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **SC-2**	Batch ID: **962**	RunNo: **1340**
Prep Date: **3/6/2012**	Analysis Date: **3/7/2012**	SeqNo: **37788** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.049	0.9756	0	104	67.2	113			
Toluene	1.1	0.049	0.9756	0	110	62.1	116			
Ethylbenzene	1.1	0.049	0.9756	0.009931	116	67.9	127			
Xylenes, Total	3.6	0.098	2.927	0.05949	120	60.6	134			
Surr: 4-Bromofluorobenzene	0.91		0.9756		93.7	85.3	139			

Sample ID **1203156-002AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **SC-2**	Batch ID: **962**	RunNo: **1340**
Prep Date: **3/6/2012**	Analysis Date: **3/7/2012**	SeqNo: **37795** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	0.9930	0	102	67.2	113	0.251	14.3	
Toluene	1.1	0.050	0.9930	0	106	62.1	116	1.76	15.9	
Ethylbenzene	1.1	0.050	0.9930	0.009931	113	67.9	127	1.44	14.4	
Xylenes, Total	3.5	0.099	2.979	0.05949	117	60.6	134	1.01	12.6	
Surr: 4-Bromofluorobenzene	1.1		0.9930		107	85.3	139	0	0	

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **Animas Environmental** Work Order Number: **1203156**

Received by/date: LM 03/06/12

Logged By: **Ashley Gallegos** **3/6/2012 10:00:00 AM** AG

Completed By: **Ashley Gallegos** **3/6/2012 10:53:56 AM** AG

Reviewed By: IO 03/06/12

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	4.5	Good	Yes			

Chain-of-Custody Record

Client: Animas Env. 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) _____

Turn-Around Time:
☑ Standard ☐ Rush _____

Project Name: Val Verde Plant Sump Overflow

Project #:

Project Manager: Ross Kennemer

Sampler: Thomas Long

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 + 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_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y or N)
3/12	1055	soil	SC-1	1 x 4oz jar unpres		1	X		X									
	1058		SC-2			2	X		X									
	1140		SC-3			3	X		X									
	1150		SC-4			4	X		X									
	1307		SC-5			5	X		X									
	1347		SC-6			6	X		X									
	1458		SC-7			7	X		X									
	1501		SC-8			8	X		X									
	1504		SC-9			9	X		X									
↓	1505	↓	TH-1@3'			10	X		X									

Date:	Time:	Relinquished by:	Received by:	Date	Time
3/5/12	1645	Thomas Long	Christine Walker	3/5/12	1645
3/5/12	1714	Christine Walker			

Remarks: Bill To Enterprise

Animas Environmental Services, LLC
www.animasenvironmental.com
624 E. Comanche
Farmington, NM 87401
505-564-2281
Durango, Colorado
970-403-3274

November 14, 2011

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

RE: Soil Sampling Results for Lateral 2B-24 October 2011 Release
San Juan County, New Mexico

Dear Mr. Dailey:

Animas Environmental Services, LLC (AES) is pleased to provide the initial report and soil sampling results for a release which occurred along the Enterprise Products Company (Enterprise) 6-inch diameter Lateral 2B-24 pipeline, located approximately 7 miles southeast of Bloomfield, San Juan County, New Mexico. The release was reported by a third party on October 10, 2011. On the same date, Enterprise Bisti Gathering Area technicians were dispatched to isolate the leak, depressurize the line, and lock/tag out associated control valves.

1.0 Release Information

1.1 Release Location

The release is located on Bureau of Land Management (BLM) leased land along the Enterprise Lateral 2B-24 pipeline within the SW¼, NE¼, Section 22, T28N, R10W, San Juan County, New Mexico. Latitude and longitude of the release were recorded as N36° 38.920' and W107° 52.767'. The approximate site elevation is approximately 6,020 feet above mean sea level. A topographic site location map is included as Figure 1, and an aerial map showing the release location is included as Figure 2.

The location of the release is in an area characterized as mixed piñon-juniper woodland and sagebrush grasslands situated among rolling hills comprised of minor sandstone outcrops. Surface runoff drains north towards an unnamed tributary of Armenta Canyon, which flows north and ultimately discharges into the San Juan River several miles to the north. Based on the surrounding topography and landforms observed at the release location, AES has estimated the depth of groundwater to be greater than 100 feet below ground surface (bgs). The release is not located within a wellhead protection area and is located more than 1,000 feet from a surface water body.

18

1.2 Site Activities

AES was initially contacted by Aaron Dailey of Enterprise on October 11, 2011, and on October 14, 2011, Ross Kennemer and Blaine Watson of AES met with Enterprise representative Aaron Lucero at the release location. Initial line repair and excavation activities were completed when AES arrived on site. Representatives from Enterprise, AES, and EMS (excavation contractor) were present on-site during the initial site activities. The cause of the release was attributed to a line leak due to corrosion on the underside of the line.

Following repair of the line leak, Enterprise and EMS expanded the excavation to remove contaminated soil to the estimated extent of the release. At the request of Mr. Lucero, AES collected field screening samples to evaluate the level of contamination present in the walls and base of the excavation. Due to elevated field screening readings in the north and south walls, and in the base of the excavation, the north side of the excavation was deepened to try to define the vertical extent of contamination. The excavation was deepened at the direction of Enterprise personnel on the basis of field screening of soil samples conducted by AES. AES also field screened stockpiled material previously removed from the excavation and found elevated readings in three different composite field samples. AES informed Enterprise that all the excavated material also appeared to be contaminated.

On October 14, 2011, due to limited effectiveness of digging with a safety bar installed on the excavator bucket teeth, the equipment operator was able to deepen the excavation to a maximum depth of only about 10 feet bgs. As a result, the excavation was terminated about 2 feet below the first depth at which semi-competent sandstone was encountered. At the depth of 10 feet bgs, a field screening reading indicated significant contamination was still present, so AES and Enterprise decided to collect a preliminary laboratory sample to determine the analytical concentration of contaminants for purposes of comparison with field results. The sample was sent for rush analysis so results would be available for further work planned for October 17, 2011. AES was requested to return to the site on October 17, 2011, to continue field screening and for possible confirmation sample collection. Enterprise personnel also requested permission for the operator to remove the safety bar from the excavator bucket to permit easier digging within the sandstone material.

On October 17, 2011, AES returned to the release location to continue field screening of the excavated materials and collect confirmation samples if needed. Billy Snell was the Enterprise representative on the date. Excavation continued on the north side of the pipeline to a depth of approximately 20 feet bgs. Excavated materials were sampled for field screening at intervals of 1 to 2 feet. Although field screening readings initially decreased over a depth of a few feet, with increased depth the readings stabilized and

then increased again. The sample collected at 20 feet bgs (the maximum excavation depth of the backhoe) had strong odors and a high field screening reading. Limited vertical excavation was then conducted on the south side of the pipeline, but elevated readings were still present at a depth of 12 feet bgs when further work was terminated for the day. AES was requested to return to the site on October 18, 2011, when larger excavation equipment was to be mobilized to the site by EMS.

On the morning of October 18, 2011, AES mobilized to the site but received a phone call and was informed that Enterprise had postponed further work at the site. Enterprise indicated that the excavation would be backfilled, and additional investigation of the release would be scheduled with AES in the future.

The primary excavation area along the pipeline measured approximately 20 ft long by 10 ft wide by 20 ft deep. During the removal of contaminated soil, approximately 88 cubic yards were transported by Sweazea Trucking for disposal at the Envirotech Landfarm, near Bloomfield, New Mexico. Approximately 88 cubic yards of clean soil were transported by Sweazea Trucking from Envirotech for use as backfill. A limited amount of clean overburden from the site was also utilized as backfill material. A photograph log is attached along with waste manifests.

On October 20, 2011, Ross Kennemer of AES and Aaron Dailey and David Smith of Enterprise conducted a short field visit to discuss additional release investigation work. Based on this visit, AES will propose the installation of a passive soil venting well within the release area to allow natural volatilization of the contaminants to occur through wind-driven or solar-assisted venting to the atmosphere.

2.0 Soil Sampling

On October 14, 2011, AES personnel conducted soil field screening and collected a single soil grab sample from within the Lateral 2B-24 October 2011 release excavation. One sample (S-1) was collected from the excavation base at a depth of approximately 10 feet bgs. Soil sample locations are included on Figure 3.

2.1 Soil Field Screening

Samples from the excavation were field screened for volatile organic compound (VOC) vapors with a photo-ionization detector (PID) organic vapor meter (OVM). Before beginning field screening, the PID-OVM was first calibrated with isobutylene gas.

Upon completion of excavation and line repair activities, initial OVM readings were taken prior to the collection of the laboratory sample. OVM measurement locations and results are presented in Table 1 and in Figure 3.

2.2 Soil Laboratory Analyses

One confirmation soil sample (S-1) for laboratory analysis was collected from approximately 10 feet bgs in the base of the initial excavation. The sample for laboratory analysis was placed into new, clean, laboratory-supplied containers, which were 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 Environmental Analysis Laboratory (Hall), in Albuquerque, New Mexico. The soil sample was 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 Soil Laboratory Analytical Results

Analytical laboratory results are summarized in the table below.

Table 1. Soil OVM and Analytical Results, Lateral 2B-24 October 2011 Release

Sample ID and Date	***Depth (ft)***	***OVM Result (ppm)***	***Benzene (mg/kg)***	***Toluene (mg/kg)***	***Ethyl-benzene (mg/kg)***	***Xylene (mg/kg)***	***BTEX (mg/kg)***	***TPH-GRO (mg/kg)***	***TPH-DRO (mg/kg)***
		NMOCD Action Level							
		100	***10***	***NE***	***NE***	***NE***	***50***	***100***	
S-1 10/14/11	10	**4,500**	<10	210	97	960	**<1,277**	**7,500**	**630**

*Note – NE is not established

Elevated OVM field screening results were associated with elevated total BTEX, TPH-GRO, and TPH-DRO in the laboratory analyzed sample S-1. Although benzene was reported below the laboratory detection limit and below the applicable New Mexico Oil Conservation Division (NMOCD) action level, the NMOCD action levels for total BTEX, TPH-GRO and TPH-DRO were all exceeded. Laboratory analytical results are included in Figure 3, and laboratory analytical reports are attached.

3.0 Conclusions and Recommendations

Based on field observations and laboratory analytical results for the preliminary soil samples, soil at the release site contains total BTEX, TPH-GRO, and TPH-DRO contaminants above the NMOCD action levels applicable for this release.

AES recommends that Enterprise conduct additional field work to begin remediation of the release. Initially, AES proposes that a soil venting well(s) be installed within the release zone utilizing a truck-mounted environmental drilling rig. The drill rig would be able to conduct a determination of the vertical extent of soil contamination beyond the 20-foot depth currently known. During the same mobilization, AES would utilize the drilling rig to install a passive soil venting well that would be vertically screened across the entire contaminated soil zone. The passive venting well would be capped with a wind-driven or solar-assisted vent mounted on a stick-up surface completion, so that soil contamination could be transferred to the vapor phase and vented to the atmosphere. A proposed well schematic is included in Figure 4.

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

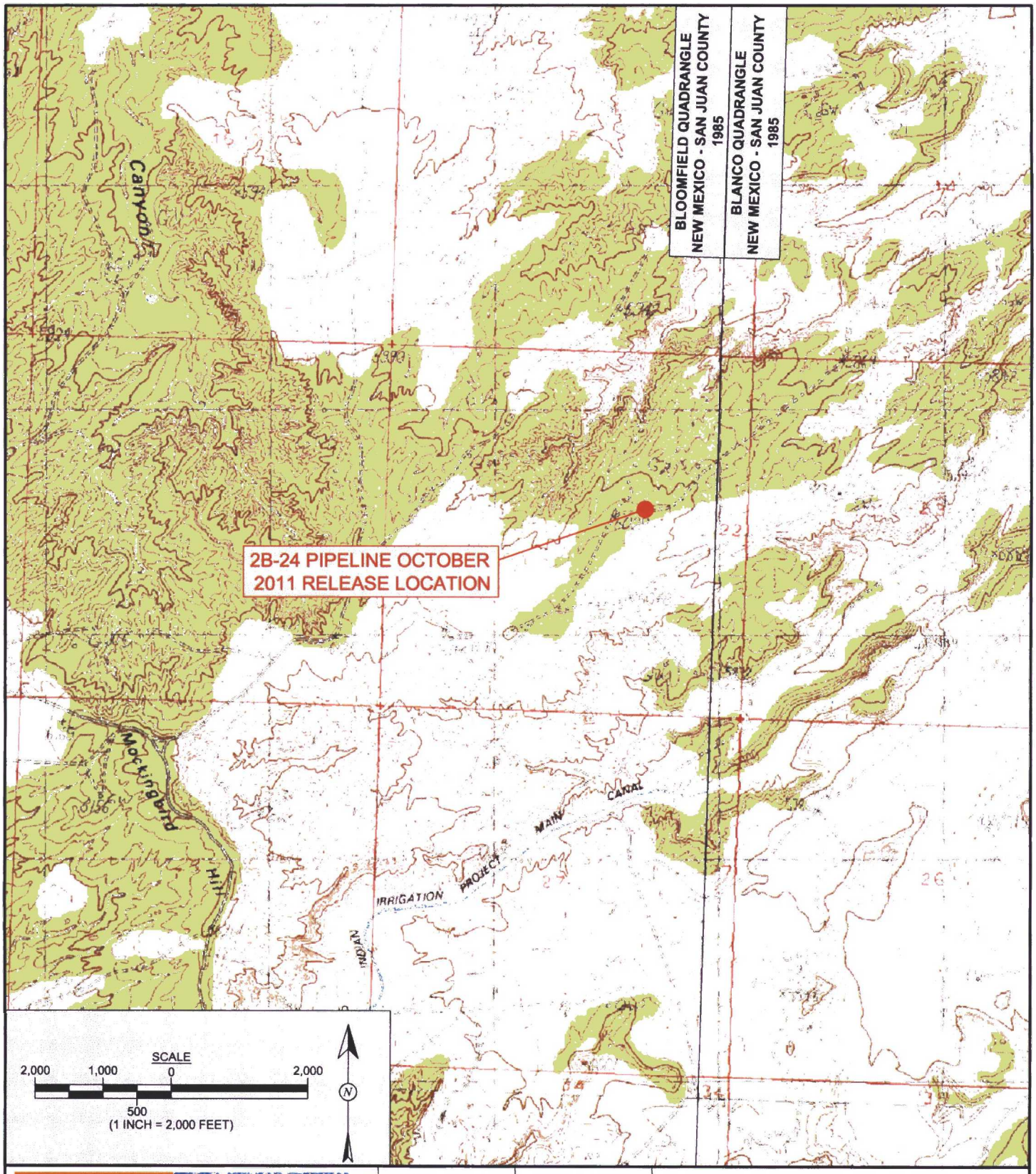
Sincerely,

Elizabeth McNally, P.E.

Attachments:

Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Map
Figure 3. Sample Location Map, October 2011
Figure 4. Proposed Soil Venting Well Schematic
Site Photograph Log
Waste Manifests (Envirotech #39985, 39996, 40014)
Laboratory Analytical Reports (Hall #1110768)

S:\Animas 2000\2011 Projects\Enterprise Products\Lateral 2B-24 (October 2011)\Enterprise Lateral 2B-24 October 2011 letter report 111511.docx



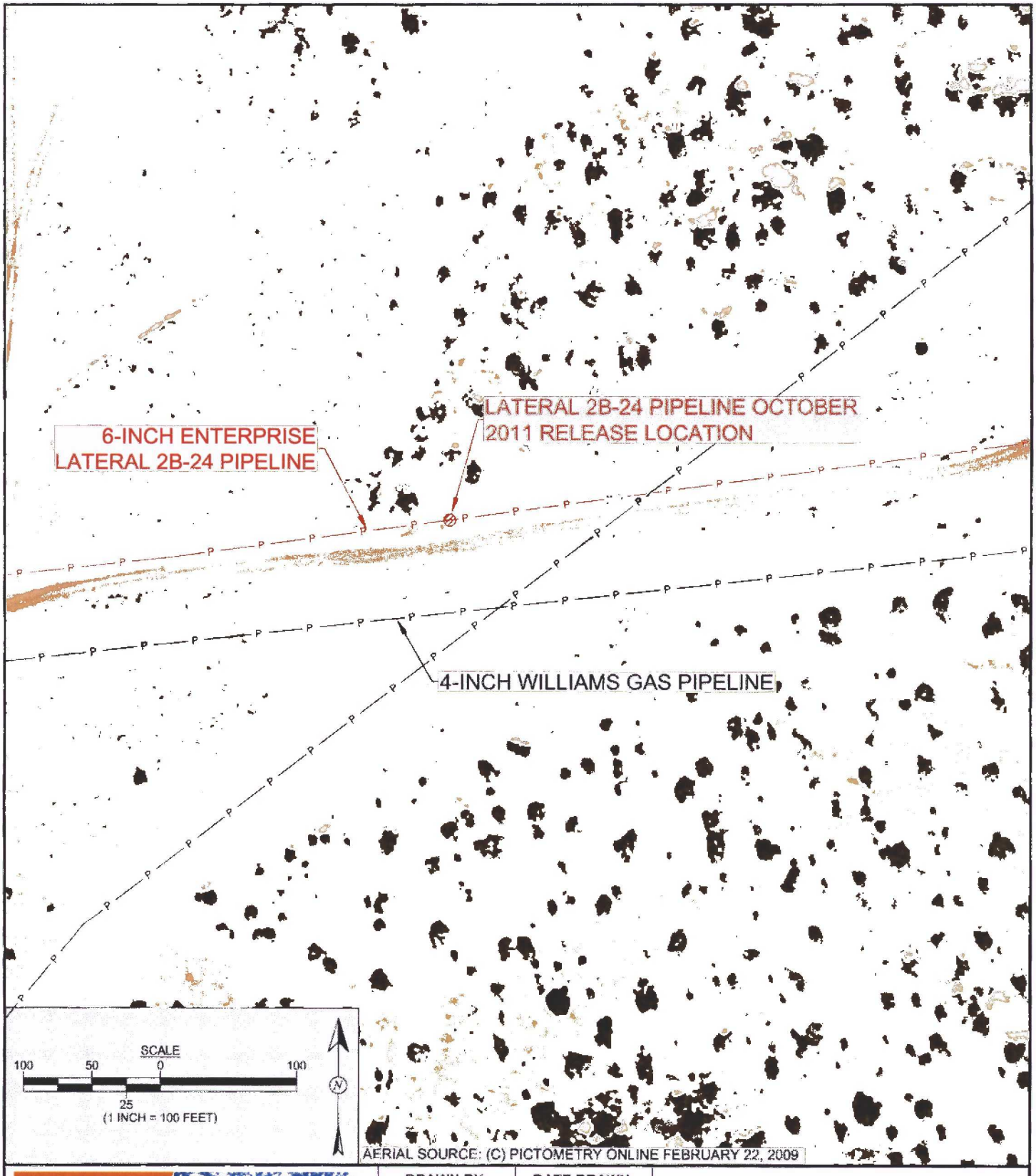
Animas Environmental Services, LLC

DRAWN BY: C. Lameman	**DATE DRAWN:** October 11, 2011
REVISIONS BY: C. Lameman	**DATE REVISED:** October 11, 2011
CHECKED BY: B. Watson	**DATE CHECKED:** November 7, 2011
APPROVED BY: E. McNally	**DATE APPROVED:** November 14, 2011

FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP

ENTERPRISE PRODUCTS COMPANY
LATERAL 2B-24 PIPELINE
OCTOBER 2011 RELEASE LOCATION
SAN JUAN COUNTY, NEW MEXICO
SW ¼, NE ¼, SEC. 22, T28N, R10W
N36°38.920', W107°52.767'



Animas Environmental Services, LLC

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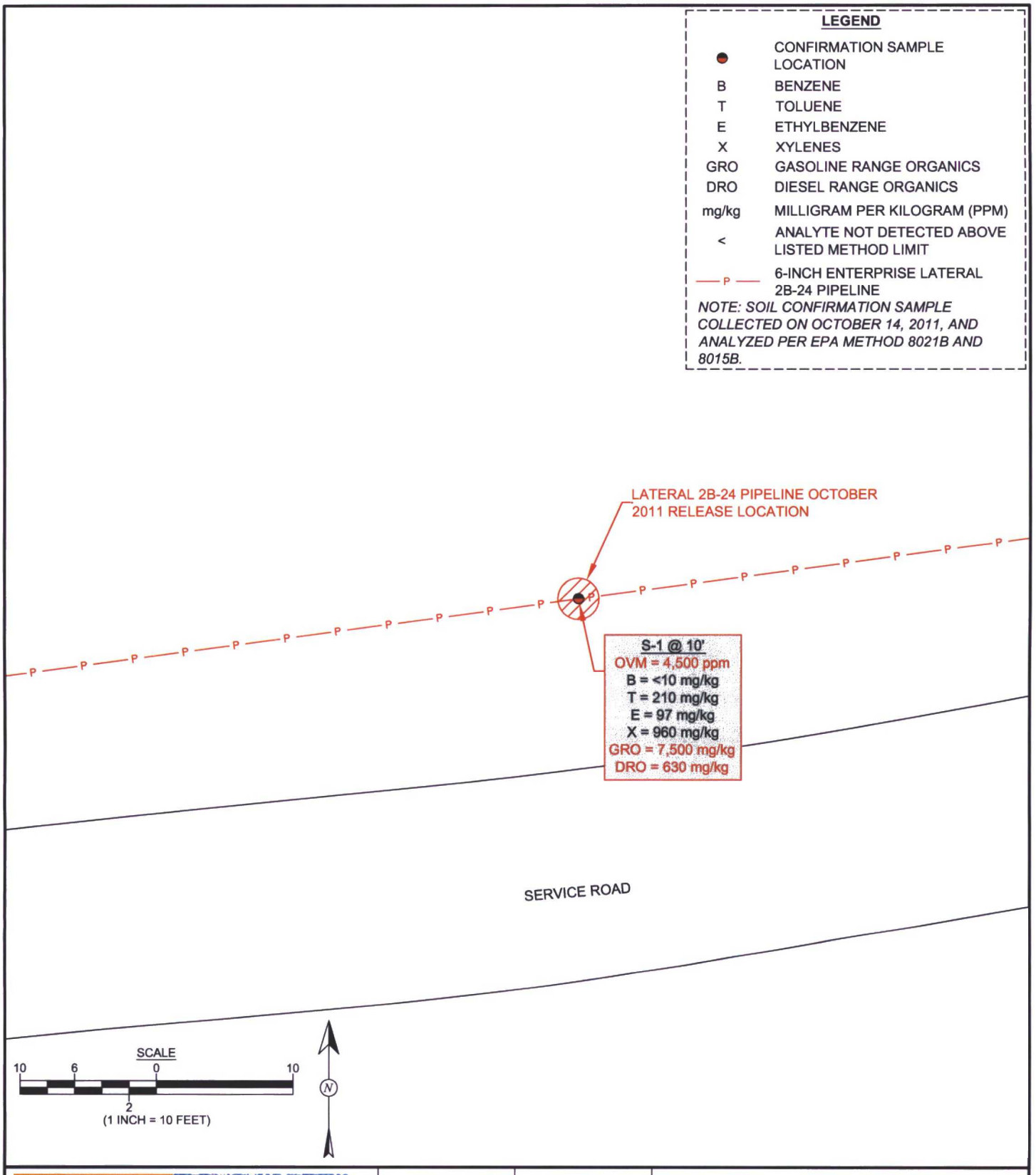
REVISIONS BY: C. Lameman	DATE REVISED: October 11, 2011
CHECKED BY: B. Watson	DATE CHECKED: November 7, 2011
APPROVED BY: E. McNally	DATE APPROVED: November 14, 2011

FIGURE 2

AERIAL SITE MAP

ENTERPRISE PRODUCTS COMPANY
LATERAL 2B-24 PIPELINE
OCTOBER 2011 RELEASE LOCATION
SAN JUAN COUNTY, NEW MEXICO
SW ¼, NE ¼, SEC. 22, T28N, R10W
N36°38.920', W107°52.767'



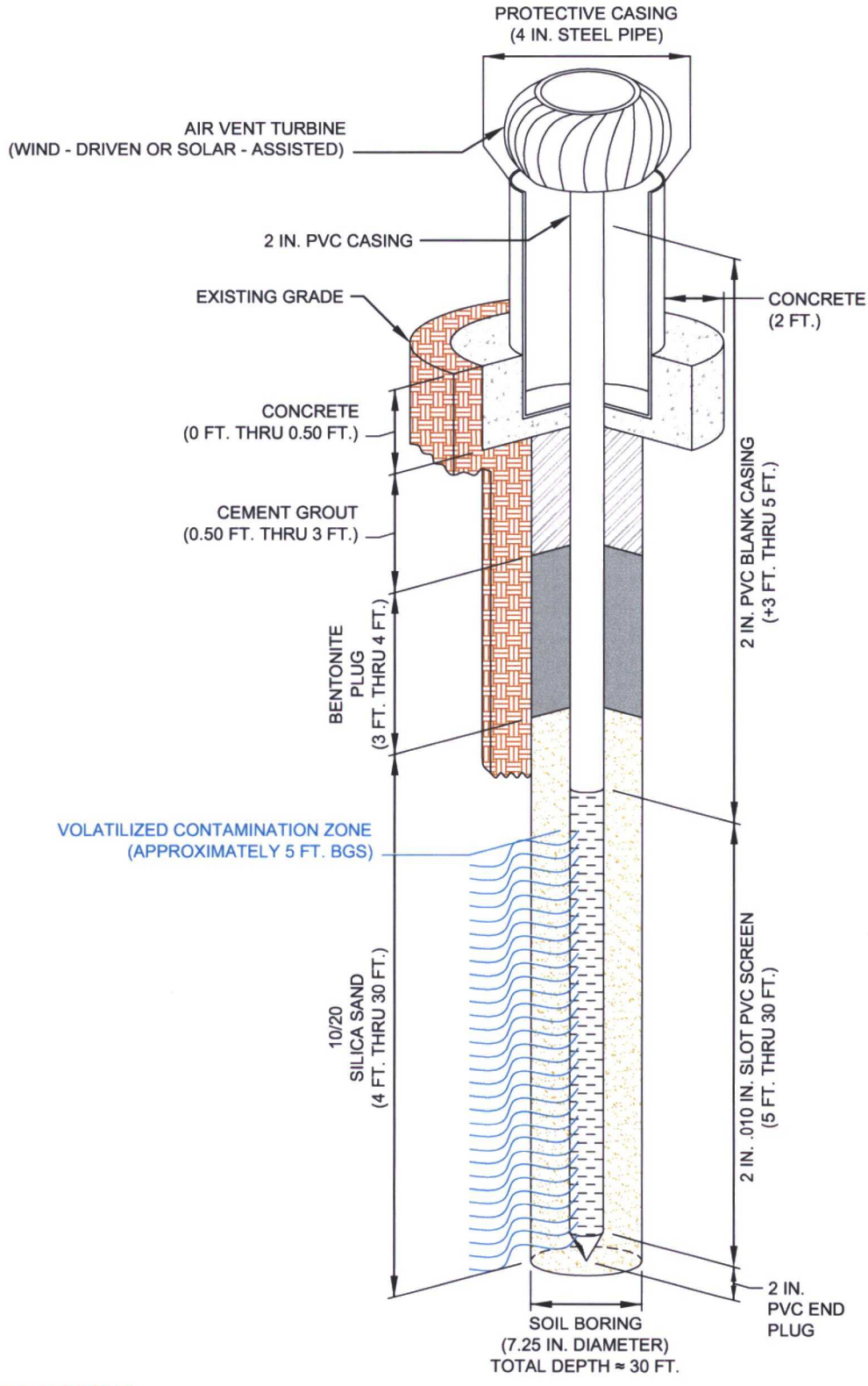
Animas Environmental Services, LLC

DRAWN BY: C. Lameman	**DATE DRAWN:** October 11, 2011
REVISIONS BY: C. Lameman	**DATE REVISED:** November 7, 2011
CHECKED BY: B. Watson	**DATE CHECKED:** November 7, 2011
APPROVED BY: E. McNally	**DATE APPROVED:** November 14, 2011

FIGURE 3

SAMPLE LOCATION MAP, OCTOBER 2011

ENTERPRISE PRODUCTS COMPANY
LATERAL 2B-24 PIPELINE
OCTOBER 2011 RELEASE LOCATION
SAN JUAN COUNTY, NEW MEXICO
SW ¼, NE ¼, SEC. 22, T28N, R10W
N36°38.920', W107°52.767'



NOT TO SCALE

Animas Environmental Services, LLC

DRAWN BY: C. Lameman	**DATE DRAWN:** October 11, 2011
REVISIONS BY: C. Lameman	**DATE REVISED:** November 7, 2011
CHECKED BY: B. Watson	**DATE CHECKED:** November 7, 2011
APPROVED BY: E. McNally	**DATE APPROVED:** November 14, 2011

FIGURE 4

PROPOSED SOIL VENTING WELL SCHEMATIC

ENTERPRISE PRODUCTS COMPANY
LATERAL 2B-24 PIPELINE
OCTOBER 2011 RELEASE LOCATION
SAN JUAN COUNTY, NEW MEXICO
SW ¼, NE ¼, SEC. 22, T28N, R10W
N36°38.920', W107°52.767'

Photo #1	
Client: Enterprise Products Company	
Project: Lateral 2B-24 October 2011 Release	
Taken by: Ross Kennemer	
October 14, 2011	
AES Project No: N/A	Facility: Lateral 2B-24 Pipeline
	Location: 7 miles southeast of Bloomfield, NM
	Description: Facing NE, general view of release work area along service road.

Photo #2	
Client: Enterprise Products Company	
Project: Lateral 2B-24 October 2011 Release	
Taken by: Ross Kennemer	
October 14, 2011	
AES Project No: N/A	Facility: Lateral 2B-24 Pipeline
	Location: 7 miles southeast of Bloomfield, NM
	Description: Facing NE, collecting field screening soil samples from initial excavation.

Photo #3	
Client: Enterprise Products Company	
Project: Lateral 2B-24 October 2011 Release	
Taken by: Ross Kennemer	
October 14, 2011	
AES Project No: N/A	Facility: Lateral 2B-24 Pipeline
	Location: 7 miles southeast of Bloomfield, NM
	Description: Facing NE, excavating along north (left) side of pipeline to investigate vertical extent.

Photo #4	
Client: Enterprise Products Company	
Project: Lateral 2B-24 October 2011 Release	
Taken by: Blaine Watson	
October 17, 2011	
AES Project No: N/A	Facility: Lateral 2B-24 Pipeline
	Location: 7 miles southeast of Bloomfield, NM
	Description: Facing E, backhoe arm/bucket at full reach (20 feet) on north side of pipeline.

envirotech

Bill of Lading

MANIFEST # 39996

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

DATE 10-17-11 JOB# 97057-0454

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	Enterprise	LFII	Cont	O-14	12	—	Sweeza	001	1181	
2	Lot 2B-24	"	Soil	O-14	10	—	"	202	1131	
3	" "	"	"	O-14	12	—	"	001	1347	
4	" "	"	"	O-14	10	—	"	202	1347	
5	" "	"	"	O-14	12	—	"	001	1608	
6	" "	"	"	O-14	10	—	"	202	1612	
					66					

RESULTS:			LANDFARM EMPLOYEE:	NOTES:
<272	CHLORIDE TEST	2	Cory Robinson	
	PAINT FILTER TEST	2	Certification of above receival & 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. Garcia's NAME Robert Galvez SIGNATURE

COMPANY CONTACT Mike Ems PHONE DATE

Signatures required prior to distribution of this legal document.

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

ACCENT Printing • Form 28-1212

envirotech

Bill of Lading

MANIFEST # 39985

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

DATE 10-17-11 JOB# 97057-0454

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	Envirotec	Enterprise Lateral JB-24	Clean Fill	—	12	—	Swezea	001	8:45	Robert Galaviz
2	"	"	"	—	10	—	"	202	8:45	Wesley Gubbs
3	"	"	"	—	12	—	"	001	1131	Robert Galaviz
4	"	"	"	—	10	—	"	202	1131	Wesley Gubbs
5	"	"	"	—	12	—	"	001	1347	Robert Galaviz
6	"	"	"	—	10	—	"	202	1347	Wesley Gubbs
7	"	"	"	—	12	—	"	001	1608	Robert Galaviz
8	"	"	"	—	10	—	"	002	1612	Wesley Gubbs
					88					

RESULTS: Clean

CHLORIDE TEST

PAINT FILTER TEST

LANDFARM EMPLOYEE: Corey Kaltwasser

Certification of above receival & placement

NOTES:

"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 Swezea Trucking NAME Robert Galaviz SIGNATURE Robert Galaviz

COMPANY CONTACT Mike w/EMS PHONE _____ DATE 10-17-11

Signatures required prior to distribution of this legal document.

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

ACCENT Printing • Form 28-1212

envirotech

Bill of Lading

MANIFEST # 40014

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

DATE 10-18-11 JOB# 97057-0454

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	Enterprise	LFII	CONT	O-14	12	—	Swearea	001	1024	
2	Lot 2B-24	"	SOIL	O-14	10	—	"	202	1024	
					22					

RESULTS:			LANDFARM EMPLOYEE:	NOTES:
~272	CHLORIDE TEST	/	Gary Robinson	
	PAINT FILTER TEST	/	Certification of above receival & 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. Swearea Trucking NAME Robert Gallegos SIGNATURE

COMPANY CONTACT _____ PHONE _____ DATE 10-18-11

Signatures required prior to distribution of this legal document.

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

ACCENT Printing • Form 28-1212

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Wednesday, October 19, 2011

Blaine Watson
Animas Environmental Services
624 East Comanche
Farmington, NM 87401

TEL: (505) 564-2281
FAX (505) 324-2022

RE: Enterprise 2B-24 Oct 10

Order No.: 1110768

Dear Blaine Watson:

Hall Environmental Analysis Laboratory, Inc. received 1 sample(s) on 10/15/2011 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682

Hall Environmental Analysis Laboratory, Inc.

Date: *19-Oct-11*

Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	S-1
Lab Order:	1110768	**Collection Date:**	10/14/2011 10:00:00 AM
Project:	Enterprise 2B-24 Oct 10	**Date Received:**	10/15/2011
Lab ID:	1110768-01	**Matrix:**	MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	630	51		mg/Kg	5	10/18/2011 9:58:18 AM
Surr: DNOP	0	73.4-123	S	%REC	5	10/18/2011 9:58:18 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	7500	1000		mg/Kg	200	10/17/2011 4:03:48 PM
Surr: BFB	133	75.2-136		%REC	200	10/17/2011 4:03:48 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	10		mg/Kg	200	10/17/2011 4:03:48 PM
Toluene	210	10		mg/Kg	200	10/17/2011 4:03:48 PM
Ethylbenzene	97	10		mg/Kg	200	10/17/2011 4:03:48 PM
Xylenes, Total	960	20		mg/Kg	200	10/17/2011 4:03:48 PM
Surr: 4-Bromofluorobenzene	107	80-120		%REC	200	10/17/2011 4:03:48 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name ANIMAS ENVIRONMENTAL Date Received: 10/15/2011

Work Order Number 1110768 Received by: AT

Checklist completed by: _____ 10/15/11 Sample ID labels checked by: _____

Signature Date Initials

Matrix: Carrier name: Courier

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☑	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	
Container/Temp Blank temperature?	3.7°	*<6° C Acceptable* If given sufficient time to cool.		

Number of preserved bottles checked for pH: _____

<2 >12 unless noted below.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: Animas Environmental Services LLC.

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 Results 10/17/11 A.M.

Project Name: Enterprise 2B-24 Oct 10

Project #:

Project Manager: Blaine Watson

Sampler: Blaine Watson

On Ice: ☒ Yes ☐ No

Sample Temperature: 3.7

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1110168	BTEX + ~~MTBE + TMB's~~ (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel) GRO/DRO	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
10/14/11	10:00	soil	S-1	(1) 8oz glass	4°C	-1	X		X													

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Date	Time	Remarks:
10/14/11	1450	Blaine Watson	Christine Walters	10/14/11	1450	Bill to Enterprise Products
10/14/11	1523	Christine Walters		10/15/11	1225	

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 y notated on the analytical report.

Animas Environmental Services, LLC
www.animasenvironmental.com
624 E. Comanche
Farmington, NM 87401
505-564-2281
Durango, Colorado
970-403-3274

March 27, 2012

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

RE: Lateral 2B-24 October 2011
Soil Biovent Well Installation Report
San Juan County, New Mexico

Dear Mr. Dailey:

Animas Environmental Services, LLC (AES) is pleased to submit a report detailing the installation of a soil biovent well for the Enterprise Products Company (Enterprise) Lateral 2B-24 October 2011 release. The release area is located approximately 3 miles south of Bloomfield, San Juan County, New Mexico.

1.0 Site Information

1.1 Location

Location - SW¼ NE¼, Section 22, T28N, R10W, San Juan County, New Mexico
Latitude/Longitude - N36.64866 and W107.87945, respectively
Surface Owner – Federal (BLM)
Figure 1 - Topographic Site Location
Figure 2 - Aerial Site Map
Figure 3 - Sample Location and Results, January 2012
Figure 4 –SVE-1 Soil Boring Log with Well Construction Details

1.2 Assessment and Mitigation

1.2.1 Release Response – October 2011

Initial line repair and excavation activities associated with the pipeline release were completed on October 14 and 17, 2011. The cause of the release was attributed to a line leak due to corrosion. The primary excavation area along the pipeline measured approximately 20 feet by 10 feet with a total depth of 20 feet. Due to the close proximity of the excavation and a busy service road, soil contamination below 20 feet could not be removed without greatly expanding the horizontal dimensions of the excavation. Therefore, AES recommended that the excavation be backfilled and a soil biovent well be

installed to mitigate residual soil contaminant vapors to an acceptable level. Details of the initial mitigation activities were submitted to Enterprise in a report dated November 14, 2011.

1.2.2 Soil Biovent Well Installation – January 2012

On January 4, 2012, prior to installing the biovent well and under the supervision of AES personnel, Riley Industrial (Riley) exposed the Lateral 2B-24 pipeline using a hydro-excavator. Riley excavated approximately 2 barrels (bbls) of petroleum hydrocarbon contaminated water and soil. The excavated material was disposed of at Envirotech's Landfarm located near Bloomfield, New Mexico. A Bill of Lading is attached.

Once the pipeline was exposed, Kyvek, Inc. installed a biovent well (SVE-1) to a depth of 30 feet below ground surface (bgs) within the previously excavated area. The soil boring was split spoon sampled at 5-ft intervals. Soil samples were field screened for volatile organic compounds (VOCs), and two soil samples were collected for laboratory analysis (SB-1 and SB-2). On January 18, 2012, AES personnel completed the construction of the solar-assisted bioventilation system and conducted a short pilot test on SVE-1.

2.0 Soil Sampling

2.1 Soil Field Screening

Seven soil samples were collected at the ground surface and at 5 ft intervals (to 30 feet bgs) from the soil boring for field screening of VOC vapors 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. VOC readings ranged from 11 ppm at 20 feet bgs up to 210 ppm at ground surface. VOC concentrations at the base of the boring (30 feet bgs) were recorded at 88 ppm.

2.2 Soil Laboratory Analyses

Two confirmation soil samples (SB-1 and SB-2) were collected for laboratory analysis. SB-1 was collected from the surface to 2 feet bgs, and SB-2 was collected from 30 to 32 feet bgs. The soil samples were placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto a sample chain of custody record. The samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall), in Albuquerque, New Mexico. The 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 Soil Laboratory Analytical Results

Soil laboratory analytical results showed that benzene concentrations were below laboratory detection limits in SB-1 and SB-2. Total BTEX concentrations were reported at 0.27 mg/kg in SB-1 and 0.47 mg/kg in SB-2. TPH concentrations (as GRO and DRO) for SB-1 and SB-2 were also well below the NMOCD action level of 5,000 mg/kg. Field screening and laboratory analytical results are summarized in Table 1 and on Figure 3. Laboratory analytical reports are attached.

Table 1. Soil OVM and Laboratory Analytical Results,
Lateral 2B-24 October 2011 Release, January 2012

Sample ID	Date	Depth (ft)	VOCs OVM (ppm)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)
NMOCD Action Level			**100**	**10**	**50**	**5,000**	
SB-1	1/4/12	0 to 2	**210**	<0.049	0.27	<4.9	<10
SB-2	1/4/12	30 to 32	88	<0.094	0.47	22	110

*Note – Action Level Determined by NMOCD *Guidelines for Leaks, Spills, and Releases* (August 1993)

New Mexico Oil Conservation Division (NMOCD) action levels for releases are specified in NMOCD's *Guidelines for Leaks, Spills, and Releases* (August 1993). Soil benzene, BTEX and TPH concentrations for soil samples collected were below laboratory detection limits or below the applicable NMOCD action levels. Field screening of VOCs (via OVM) exceeded the NMOCD action level of 100 ppm in SB-1 with 210 ppm. However, laboratory analytical results for benzene and total BTEX were below applicable action levels of 10 mg/kg and 50 mg/kg, respectively.

2.4 Soil Biovent Well Construction

The soil biovent well (SVE-1) was installed to a total depth of 30 feet bgs and was constructed of 25 feet of 2-inch inside diameter (ID) 0.010 inch slotted poly vinyl chloride (PVC) well screen and 5 feet of 2-inch ID blank PVC well casing. Colorado silica 10/20 sand pack was placed from 1 foot above the top of the well screen (4 feet bgs) to the total depth of the borehole (30 feet bgs). A 1 foot thick bentonite seal was placed on top of the filter pack and hydrated. Cement grout was placed from 0.5 feet bgs to approximately 3

feet bgs. Concrete was placed from ground surface to 0.5 feet bgs. A soil boring log with biovent well construction details is included as Figure 4.

2.5 Soil Biovent Well System

AES contracted Fosters Heating and Plumbing of Farmington, New Mexico, to fabricate a connection that enabled a Master Flow Green Machine® solar powered roof vent to be connected to the 2-inch ID PVC well casing in order to provide solar assisted fan in the biovent well. The vent fan was installed on January 18, 2012, by AES personnel and has a flow rate capability of 500 cubic feet per minute (cfm) when utilized as designed. Flow rates from this specific application as a subsurface hydrocarbon vapor removal system will be variable. A photograph log of the biovent system is attached.

2.6 Soil Biovent Well Pilot Testing

On January 18, 2012, AES personnel conducted a pilot test on SVE-1 using a small electric vacuum pump. The test was conducted for 15 minutes with 27 inches H_2O of vacuum applied to the well. Hydrocarbon vapor concentrations were field screened with a PID OVM, which was calibrated to 100 ppm with isobutylene gas. Field screening was conducted every 2 minutes. OVM pilot test results are presented in Table 2.

Table 2. Soil Biovent Well Pilot Test,
Lateral 2B-24 October 2011 Release, January 2012

Sample ID	Date Tested	Time	Applied Vacuum (Inches H_2O)	OVM Reading (ppm)
FS-1	01/18/12	11:55	27	1,013
FS-2	01/18/12	11:57	27	1,003
FS-3	01/18/12	11:59	27	1,007
FS-4	01/18/12	12:01	27	1,020
FS-5	01/18/12	12:03	27	1,011
FS-6	01/18/12	12:06	27	1,016
FS-7	01/18/12	12:08	27	995
FS-8	01/18/12	12:10	27	1,001

3.0 Conclusions and Recommendations

As part of mitigation of the Lateral 2b-24 October 2011 release, AES installed a soil biovent well (SVE-1) in January 2012. The biovent well was supplemented with a solar assisted ventilation fan to enhance venting of subsurface vapors. In order to monitor the soil biovent well performance, AES recommends quarterly measurement of air flows and vapor monitoring with a PID OVM to determine the effectiveness of the of the solar powered ventilation system.

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

Sincerely,

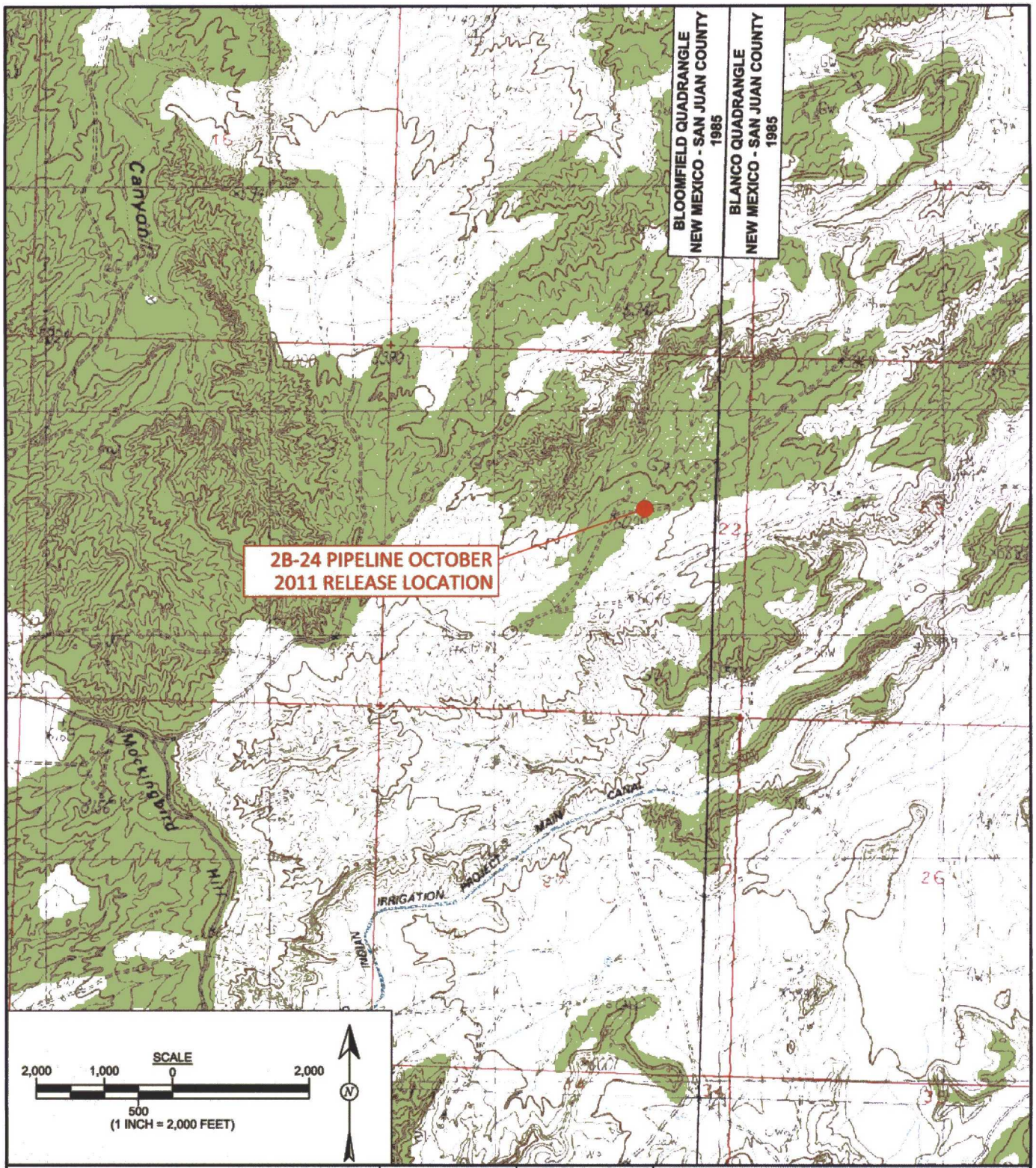
Thomas J. Long
Project Manager

Elizabeth McNally, P.E.

Attachments:

Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Map
Figure 3. Sample Location and Results, January 2012
Figure 4. Soil Boring Log with Well Construction Details
Photograph Log
Bill of Lading (40587)
Laboratory Analytical Reports (Hall 1201133)

S:\Animas 2000\2012 Projects\Enterprise\Lateral 2B-24\Lateral 2B-24 Soil Biovent Well Installation Letter Report 032712.docx



Animas Environmental Services, LLC

DRAWN BY: C. Lameman	**DATE DRAWN:** October 11, 2011
REVISIONS BY: C. Lameman	**DATE REVISED:** October 11, 2011
CHECKED BY: B. Watson	**DATE CHECKED:** November 7, 2011
APPROVED BY: E. McNally	**DATE APPROVED:** November 14, 2011

FIGURE 1

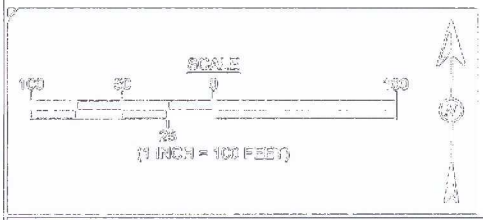
TOPOGRAPHIC SITE LOCATION MAP

ENTERPRISE PRODUCTS COMPANY
LATERAL 2B-24 PIPELINE
OCTOBER 2011 RELEASE LOCATION
SAN JUAN COUNTY, NEW MEXICO
SW ¼, NE ¼, SEC. 22, T28N, R10W
N36.64866, W107.87945

6-INCH ENTERPRISE
LATERAL 2B-24 PIPELINE

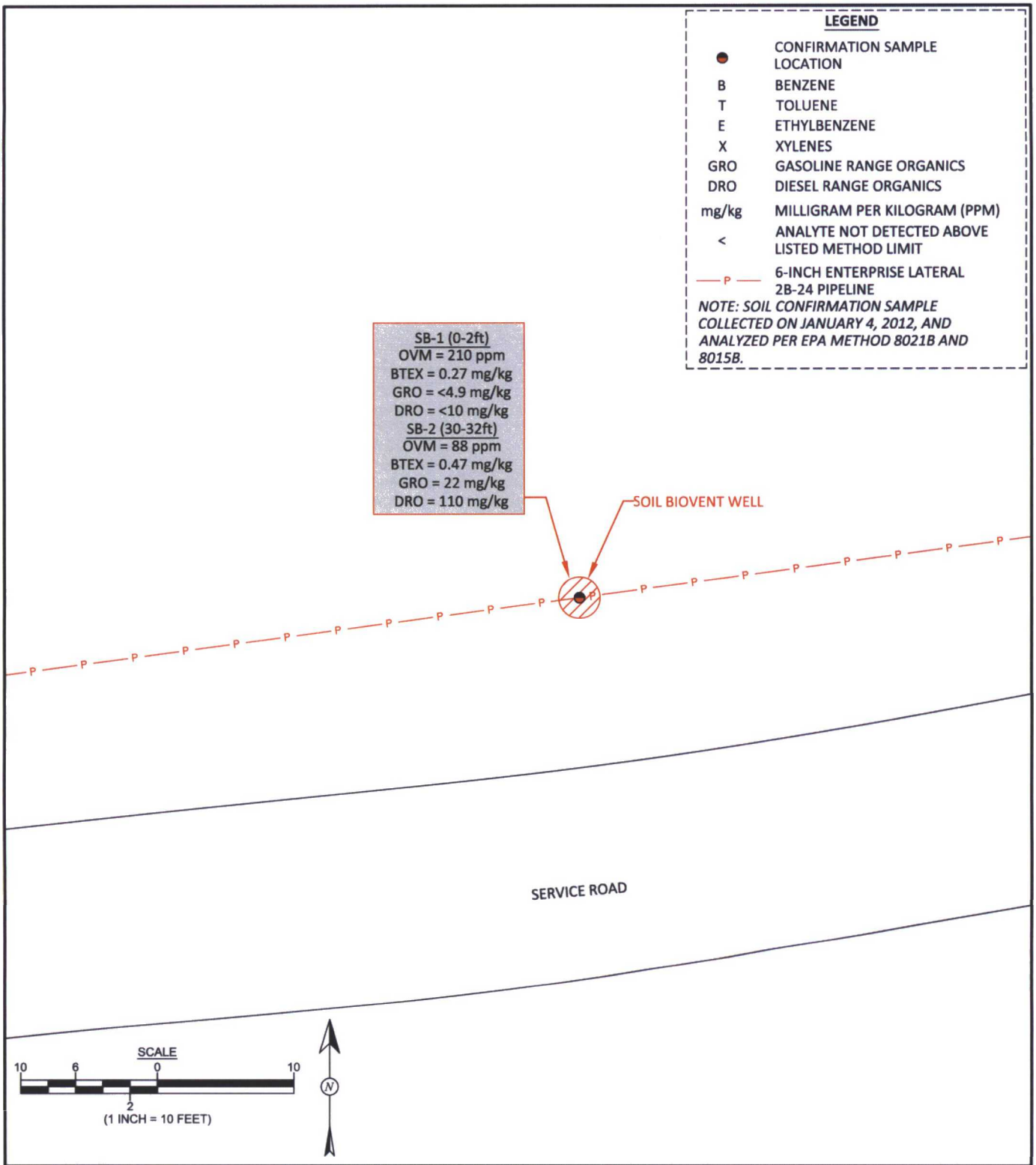
LATERAL 2B-24 OCTOBER 2011 RELEASE
EXCAVATION AND SOIL BIOVENT WELL LOCATION

6-INCH WILLIAMS GAS PIPELINE



Animas Environmental Services, LLC

DRAWN BY: K. Christiansen	DATE DRAWN: January 20, 2012	FIGURE 2
REVISIONS BY: K. Christiansen	DATE REVISED: January 20, 2012	AERIAL SITE MAP ENTERPRISE PRODUCTS COMPANY LATERAL 2B-24 PIPELINE OCTOBER 2011 RELEASE SOIL BIOVENT WELL SAN JUAN COUNTY, NEW MEXICO SW ¼, NE ¼, SEC. 22, T28N, R10W N36.64966, W107.87945
CHECKED BY: T. Long	DATE CHECKED: January 20, 2012	
APPROVED BY: E. McNally	DATE APPROVED: March 27, 2012	



DRAWN BY: K. Christiansen	**DATE DRAWN:** January 20, 2012	**FIGURE 3**
REVISIONS BY: K. Christiansen	**DATE REVISED:** January 20, 2012	**SAMPLE LOCATION AND RESULTS JANUARY 2012**
CHECKED BY: T. Long	**DATE CHECKED:** January 20, 2012	ENTERPRISE PRODUCTS COMPANY LATERAL 2B-24 PIPELINE OCTOBER 2011 RELEASE JANUARY 2012, SOIL VAPOR EXTRACTION WELL SAN JUAN COUNTY, NEW MEXICO SW ¼, NE ¼, SEC. 22, T28N, R10W N36.64866, W107.87945
APPROVED BY: E. McNally	**DATE APPROVED:** March 27, 2012	

Animas Environmental Services, LLC

Animas Environmental Services, LLC
624 East Comanche St.
Farmington, NM 87401

Figure 4

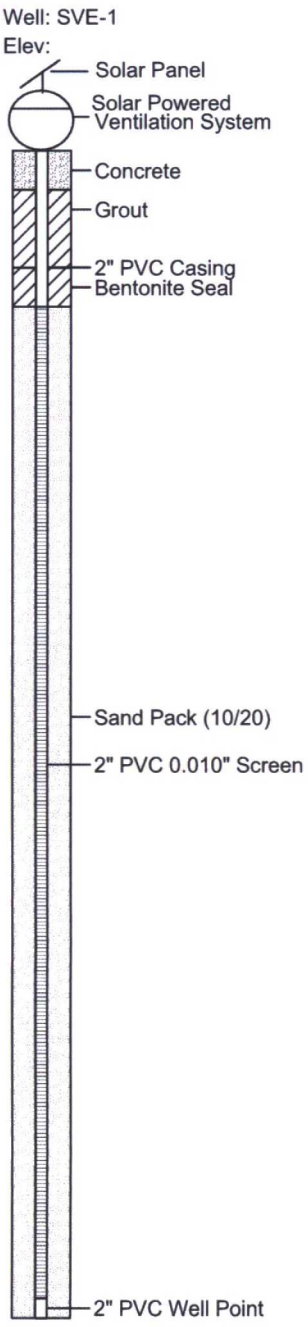
Soil Boring Log w/ Well Construction Details

ENTERPRISE PRODUCTS COMPANY
LATERAL 2B-24 PIPELINE
OCTOBER 2011 RELEASE
SAN JUAN COUNTY, NEW MEXICO
SW1/4, NE1/4, SEC. 22, T28N, R10W

Date Started	: 1/4/12	Latitude	: 36°38.9068
Date Completed	: 1/4/12	Longitude	: -107°52.7895
Hole Diameter	: 7.25 in.	Survey By	: NA
Drilling Method	: HSA	Logged By	: Tom Long
Sampling Method	: Split Spoon		

Depth in Feet	Surf. Elev. 0	USCS	GRAPHIC	DESCRIPTION	Blow Count	PID (ppm)
0	0	SW		Light Brown, Fine, Sandy Fill Material, Dry, Non-plastic, Soft, 2.5 YR 3/3*.		210
2	-2					
4	-4					
6	-6					107
8	-8					
10	-10	SW		Tan/Gray, Fine, Sand, Moist, Non-plastic, Soft, No Odor, 7.5 YR 8/4*.		71
12	-12					
14	-14					
16	-16					45
18	-18					
20	-20	SW		Tan/Light Brown, Fine, Sand, Moist, Non-plastic, Soft, No Odor, 7.5 YR 8/4*.		11
22	-22					
24	-24					
26	-26					101
28	-28					
30	-30			Light Gray, Clay/Shale, Moist, Dense, Non-plastic, Slight Odor, GLEY 4/10B*.		88
32						

*Munsel Soil Color Reference



01-23-2012 S:\Animas 2000\2012 Projects\Enterprise\Lateral 2B-24\2B-24\Boring Log\SB-1\SVE-1.bor

Photo #1	
Client: Enterprise Products Company	
Project: 2B-24 October 2011 Release Biovent Well Installation	
Taken by: Tom Long	
January 4, 2012	
AES Project No: 110903	Description: View of the hydro-excavation activities around the pipeline.

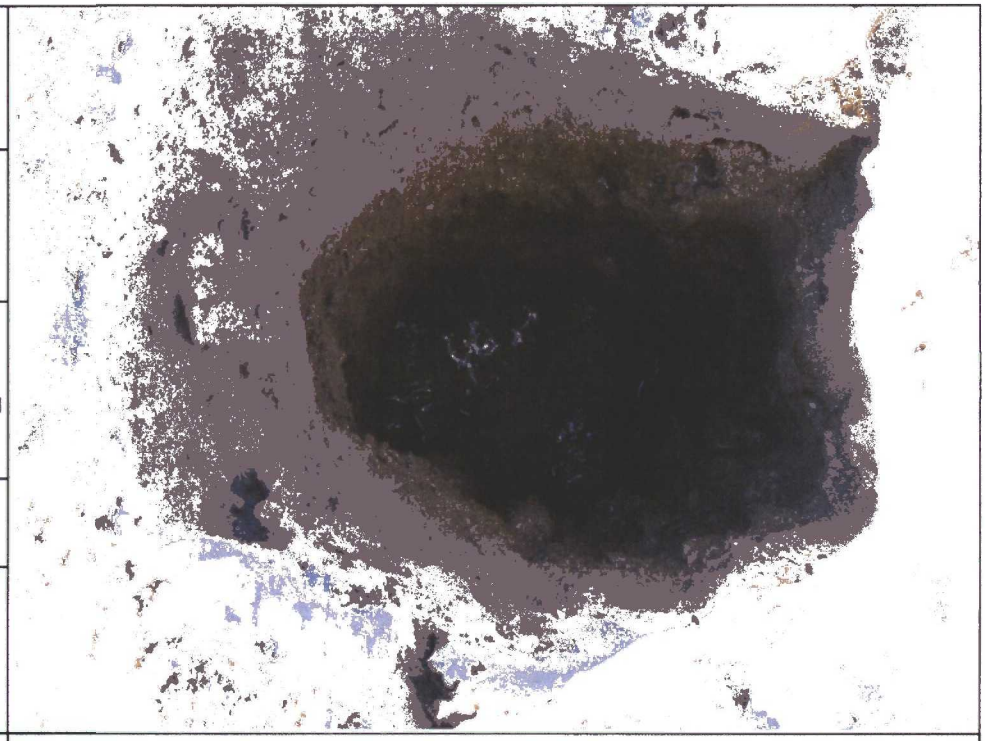
Photo #2	
Client: Enterprise Products Company	
Project: 2B-24 October 2011 Release Biovent Well Installation	
Taken by: Tom Long	
January 4, 2012	
AES Project No: 110903	Description: View of the pothole that exposed the 2B-24 pipeline.

Photo #3	
Client: Enterprise Products Company	
Project: 2B-24 October 2011 Release Biovent Well Installation	
Taken by: Tom Long	
January 4, 2012	
AES Project No: 110903	Description: View of the drilling activities for SVE-1.

Photo #4	
Client: Enterprise Products Company	
Project: 2B-24 October 2011 Release Biovent Well Installation	
Taken by: Tom Long	
January 4, 2012	
AES Project No: 110903	Description: View of the drilling activities for SVE-1.

Photo #5	
Client: Enterprise Products Company	
Project: 2B-24 October 2011 Release Biovent Well Installation	
Taken by: Tom Long	
January 4, 2012	
AES Project No: 110903	Description: View of the well construction activities for SVE-1.

Photo #6	
Client: Enterprise Products Company	
Project: 2B-24 October 2011 Release Biovent Well Installation	
Taken by: Tom Long	
January 4, 2012	
AES Project No: 110903	View of the well construction activities for SVE-1.

Photo #7	
Client: Enterprise Products Company	
Project: 2B-24 October 2011 Release Biovent Well Installation	
Taken by: Tom Long	
January 4, 2012	
AES Project No: 110903	Description: View of the well construction activities for SVE-1.

Photo #8	
Client: Enterprise Products Company	
Project: 2B-24 October 2011 Release Biovent Well Installation	
Taken by: Tom Long	
January 18, 2012	
AES Project No: 110903	View of the installation of the soil bioventing system.

Photo #9	
Client: Enterprise Products Company	
Project: 2B-24 October 2011 Release Biovent Well Installation	
Taken by: Tom Long	
January 18, 2012	
AES Project No: 110903	Description: View of the installation of the soil bioventing system.

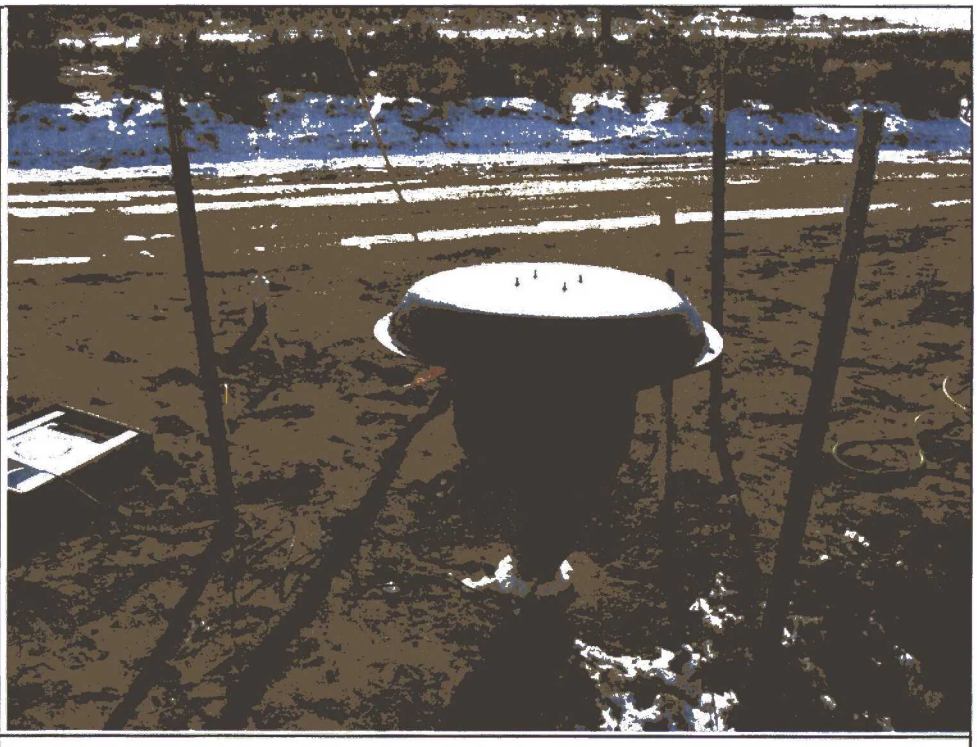
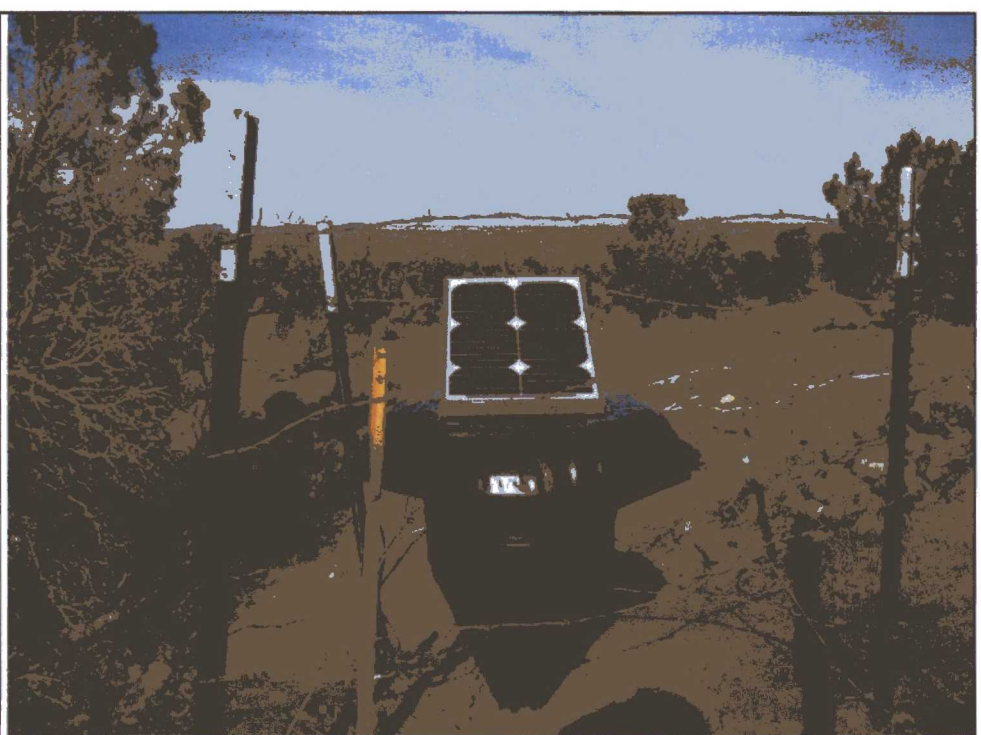
Photo #10	
Client: Enterprise Products Company	
Project: 2B-24 October 2011 Release Biovent Well Installation	
Taken by: Tom Long	
January 18, 2012	
AES Project No: 110903	Description: View of the installation of the soil bioventing system.

Photo #11	
Client: Enterprise Products Company	
Project: 2B-24 October 2011 Release Biovent Well Installation	
Taken by: Tom Long	
January 18, 2012	
AES Project No: 110903	Description: View of the installed soil bioventing system.

Photo #12	
Client: Enterprise Products Company	
Project: 2B-24 October 2011 Release Biovent Well Installation	
Taken by: Tom Long	
January 18, 2012	
AES Project No: 110903	Description: View of the installed soil bioventing system.

envirotech

Bill of Lading

MANIFEST # 40587

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

DATE 1-4-12 JOB# 97057-0476

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	Enterprise 2-13-24	BF LF II-5	Soil water	EE-15	—	6 / 6	Riley	18079	1300	Geoffrey Woolard

RESULTS:			LANDFARM EMPLOYEE:	NOTES:
<280	CHLORIDE TEST	1	Cory Robinson	
	PAINT FILTER TEST	1	Certification of above receival & 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. Riley Industrial NAME Geoffrey Woolard SIGNATURE Geoffrey Woolard

COMPANY CONTACT Dave Brackney PHONE (505) 327-4947 DATE 1-4-12

Signatures required prior to distribution of this legal document.

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

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HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

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

January 11, 2012

Thomas Long
Animas Environmental Services
624 East Comanche
Farmington, NM 87401
TEL: (505) 564-2281
FAX (505) 324-2022

RE: Enterprise 2B-24 OrderNo.: 1201133

Dear Thomas Long:

Hall Environmental Analysis Laboratory received 2 sample(s) on 1/5/2012 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative. Analytical results designated with a "J" qualifier are estimated and represent a detection above the Method Detection Limit (MDL) and less than the Reporting Limit (PQL). These analytes are not reviewed nor narrated as to whether they are laboratory artifacts.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1201133**
Date Reported: **1/11/2012**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Project: Enterprise 2B-24
Lab ID: 1201133-001 **Matrix:** SOIL

Client Sample ID: SVE1@ 0-2'
Collection Date: 1/4/2012 12:25:00 PM
Received Date: 1/5/2012 2:35:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/8/2012 9:13:35 PM
Surr: DNOP	84.8	77.4-131		%REC	1	1/8/2012 9:13:35 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/9/2012 2:25:56 PM
Surr: BFB	99.2	69.7-121		%REC	1	1/9/2012 2:25:56 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.049		mg/Kg	1	1/9/2012 2:25:56 PM
Toluene	0.054	0.049		mg/Kg	1	1/9/2012 2:25:56 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/9/2012 2:25:56 PM
Xylenes, Total	0.12	0.098		mg/Kg	1	1/9/2012 2:25:56 PM
Surr: 4-Bromofluorobenzene	101	85.3-139		%REC	1	1/9/2012 2:25:56 PM

Qualifiers:

*/X	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
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: SVE1@30-32'
Project: Enterprise 2B-24
Collection Date: 1/4/2012 1:17:00 PM
Lab ID: 1201133-002 **Matrix:** SOIL
Received Date: 1/5/2012 2:35:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	110	10		mg/Kg	1	1/8/2012 9:47:23 PM
Surr: DNOP	89.3	77.4-131		%REC	1	1/8/2012 9:47:23 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	22	9.4		mg/Kg	2	1/9/2012 2:56:19 PM
Surr: BFB	149	69.7-121	S	%REC	2	1/9/2012 2:56:19 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.094		mg/Kg	2	1/9/2012 2:56:19 PM
Toluene	ND	0.094		mg/Kg	2	1/9/2012 2:56:19 PM
Ethylbenzene	ND	0.094		mg/Kg	2	1/9/2012 2:56:19 PM
Xylenes, Total	0.19	0.19		mg/Kg	2	1/9/2012 2:56:19 PM
Surr: 4-Bromofluorobenzene	110	85.3-139		%REC	2	1/9/2012 2:56:19 PM

Qualifiers:

*/X	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
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1201133**

11-Jan-12

Client: Animas Environmental Services

Project: Enterprise 2B-24

Sample ID: **MB-162**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **162**	RunNo: **255**
Prep Date: **1/6/2012**	Analysis Date: **1/8/2012**	SeqNo: **7852** 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	8.3		10.00		82.9	77.4	131			

Sample ID: **LCS-162**	SampType: **LCS**	TestCode: **EPA Method 8015B: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **162**	RunNo: **255**
Prep Date: **1/6/2012**	Analysis Date: **1/8/2012**	SeqNo: **7854** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	37	10	50.00	0	73.6	62.7	139			
Surr: DNOP	4.5		5.000		90.5	77.4	131			

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1201133**

11-Jan-12

Client: Animas Environmental Services

Project: Enterprise 2B-24

Sample ID: **MB-161**	SampType: **MBLK**			TestCode: **EPA Method 8015B: Gasoline Range**					
Client ID: **PBS**	Batch ID: **161**			RunNo: **283**					
Prep Date: **1/6/2012**	Analysis Date: **1/9/2012**			SeqNo: **8734**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	910		1,000		91.3	69.7	121			

Sample ID: **LCS-161**	SampType: **LCS**			TestCode: **EPA Method 8015B: Gasoline Range**					
Client ID: **LCSS**	Batch ID: **161**			RunNo: **283**					
Prep Date: **1/6/2012**	Analysis Date: **1/9/2012**			SeqNo: **8741**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	114	86.4	132			
Surr: BFB	1,000		1,000		101	69.7	121			

Sample ID: **1201133-001AMS**	SampType: **MS**			TestCode: **EPA Method 8015B: Gasoline Range**					
Client ID: **SVE1@ 0-2'**	Batch ID: **161**			RunNo: **283**					
Prep Date: **1/6/2012**	Analysis Date: **1/9/2012**			SeqNo: **8742**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	4.8	24.02	0	114	72.4	149			
Surr: BFB	1,000		960.6		109	69.7	121			

Sample ID: **1201133-001AMSD**	SampType: **MSD**			TestCode: **EPA Method 8015B: Gasoline Range**					
Client ID: **SVE1@ 0-2'**	Batch ID: **161**			RunNo: **283**					
Prep Date: **1/6/2012**	Analysis Date: **1/10/2012**			SeqNo: **8743**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	4.9	24.53	0	123	72.4	149	10.5	19.2	
Surr: BFB	820		981.4		83.2	69.7	121	0	0	

Qualifiers:

*/X	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
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1201133**

11-Jan-12

Client: Animas Environmental Services

Project: Enterprise 2B-24

Sample ID: **MB-161**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **161**	RunNo: **283**
Prep Date: **1/6/2012**	Analysis Date: **1/9/2012**	SeqNo: **8753** 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	0.98		1.000		98.3	85.3	139			

Sample ID: **LCS-161**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **161**	RunNo: **283**
Prep Date: **1/6/2012**	Analysis Date: **1/9/2012**	SeqNo: **8757** 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	103	83.3	107			
Toluene	1.0	0.050	1.000	0	102	74.3	115			
Ethylbenzene	1.1	0.050	1.000	0	107	80.9	122			
Xylenes, Total	3.3	0.10	3.000	0	111	85.2	123			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	85.3	139			

Sample ID: **1201132-001AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BatchQC**	Batch ID: **161**	RunNo: **283**
Prep Date: **1/6/2012**	Analysis Date: **1/9/2012**	SeqNo: **8758** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.049	0.9862	0	94.8	67.2	113			
Toluene	0.92	0.049	0.9862	0.006763	93.0	62.1	116			
Ethylbenzene	0.99	0.049	0.9862	0	100	67.9	127			
Xylenes, Total	3.1	0.099	2.959	0.02126	104	60.6	134			
Surr: 4-Bromofluorobenzene	0.91		0.9862		91.8	85.3	139			

Sample ID: **1201132-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BatchQC**	Batch ID: **161**	RunNo: **283**
Prep Date: **1/6/2012**	Analysis Date: **1/9/2012**	SeqNo: **8759** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.047	0.9497	0	97.4	67.2	113	1.13	14.3	
Toluene	0.91	0.047	0.9497	0.006763	95.5	62.1	116	1.07	15.9	
Ethylbenzene	0.99	0.047	0.9497	0	104	67.9	127	0.160	14.4	
Xylenes, Total	3.1	0.095	2.849	0.02126	108	60.6	134	0.723	12.6	
Surr: 4-Bromofluorobenzene	1.1		0.9497		112	85.3	139	0	0	

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Receipt Checklist

Client Name **Animas Environmental** Date and Time Receive **1/5/2012 2:35:00 PM**

Work Order Numbe **1201133** RcptNo: **1** Received by **Lindsay Mangin**

Checklist Completed By: Checked by: MG

Completed Date: 1/5/2012 5:19:40 PM Checked Date: 1/6/12

Carrier name Courier

Shipping cooler present and in acceptable condition?	Yes ✔	No	NA
Chain of custody present?	Yes ✔	No	
Chain of custody signed when relinquished and received?	Yes ✔	No	
Chain of custody agrees with sample labels?	Yes ✔	No	Not Present
Are matrices correctly identified on Chain of custody?	Yes ✔	No	
Is it clear what analyses were requested?	Yes ✔	No	
Custody Seals present on cooler?	Yes	No	
Custody Seals intact on sample bottles?	Yes	No	NA ✔
Samples in proper container/bottle?	Yes ✔	No	
Were correct preservatives used and noted?	Yes ✔	No	
Sample containers intact?	Yes ✔	No	
Sufficient sample volume for indicated test?	Yes ✔	No	
Were container lables complete (ID, Pres, Date)?	Yes ✔	No	
All samples received within holding time?	Yes ✔	No	
Was an attempt made to cool the samples?	Yes ✔	No	
All samples received at a temp. of > 0° C to 6.0° C?	Yes ✔	No	
Response when temperature is outside of range:			
Preservative added to bottles:			
Sample Temp. taken and recorded upon receipt?	Yes ✔	No	2.4 °C
Water - Were bubbles absent in VOC vials?	Yes	No	NA ✔
Water - pH acceptable upon receipt?	Yes	No	NA ✔
Sample Condition?	Intact ✔	Broken	Leaking

Number of preserved bottles checked for pH: _____

<2 or >12 unless noted Adjusted? Checked by

Client Contacted? Yes No ✔ NA Person Contacted: Comments:

Contact Mode: Phone: Fax: Email: In Person:

Date Contacted: Contacted By:

Regarding:

CorrectiveAction:

Chain-of-Custody Record

Client: Animas Env. Services

Mailing Address: 624 E. Comanche
Farmington, NM

Phone #: 505-564-2281

email or Fax#: tlong@animasenvironmental.com

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

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☑ Standard ☐ Rush _____

Project Name: Enterprise 2B-24

Project #:

Project Manager:

Sampler: Thomas Long

On Ice: ☑ Yes ☐ No

Sample Temperature: 2.4

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1201133	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_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)				Air Bubbles (Y or N)
1/4/12	1225	Soil	SVE-1c 0-2'	4oz Jar	Ice	-1	X		X												
↓	1317	↓	SVE1c 30-32'	↓	↓	-2	X		X												

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Date	Time
1/4/12	1515		Christie Wade	1/4/12	1524
1/5/12	0649	Christie Wade		1/5/12	1435

Remarks:

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.

Animas Environmental Services, LLC
www.animasenvironmental.com
624 E. Comanche
Farmington, NM 87401
505-564-2281
Durango, Colorado
970-403-3274

August 3, 2012

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

RE: 52 & C-52 Loop
Drip Pit Closure Report
San Juan County, New Mexico

Dear Mr. Dailey:

Animas Environmental Services, LLC (AES) is pleased to provide the final report associated with the drip pit closure at the Enterprise Products Company (Enterprise) 52 & C-52 Loop Drip Pit, located in San Juan County, New Mexico.

1.0 Site Information

1.1 Location

Site Name – 52 & C-52 Loop Drip Pit
Legal Description - NW¼ NE¼, Section 29, T29N, R9W, San Juan County, New Mexico
Drip Pit Latitude/Longitude - N36.70240 and W107.79888, respectively
Land Jurisdiction - Bureau of Land Management (BLM)
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 location was assigned a ranking score to establish action levels. The ranking score was obtained by reviewing available records of nearby oil/gas wells using the NMOCD online database. A Below Grade Tank Closure Report for a nearby well dated September 2003 indicated groundwater was greater than 100 feet below ground surface (bgs). Additionally, the New Mexico Office of the State Engineer (NMOSE) database was reviewed for the presence of 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, and no surface waters were identified within 1,000 feet of the location. Canyon Largo wash is located approximately 2,000 feet to the northeast. Based on these factors, the location was assessed a ranking score of 0.

1.3 Drip Pit Assessment

AES was initially contacted by Aaron Dailey, Enterprise representative, on April 3, 2012, and on April 4, 2012, Ross Kennemer and Deborah Watson of AES completed the assessment of the drip pit, which included collection of five soil samples from the pit footprint for field screening and laboratory analysis.

2.0 Soil Sampling

On April 4, 2012, AES personnel used a hand auger to collect five soil samples (TH-1 through TH-5) from the pit footprint. Soil samples were collected from the following depths: TH-1 (1.7 feet), TH-2 (2 feet), TH-3 (1.6 feet), TH-4 (1.1 feet), and TH-5 (1.3 feet). Samples were field screened for volatile organic compounds (VOCs) and submitted for laboratory analysis. Sample locations are included on Figure 3.

2.1 Field Screening

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

2.2 Laboratory Analyses

Samples TH-1 through TH-5 were collected for laboratory analysis and 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 Hall Environmental Analysis Laboratory (Hall), in Albuquerque, New Mexico. Samples were 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;
- Chloride per USEPA Method 300.0.

2.3 Field Screening and Laboratory Analytical Results

VOC field screening readings ranged from 2.4 ppm in TH-1 and TH-5 up to 2.8 ppm in TH-4. Field screening results are summarized in Table 1 and presented on Figure 3.

Table 1. Soil Field Screening VOCs Results
52 & C-52 Loop Drip Pit Closure, April 2012

Sample ID	Date Sampled	Depth below BGT (ft)	VOCs OVM Reading (ppm)
TH-1	04/04/12	1.7	2.4
TH-2	04/04/12	2	2.6
TH-3	04/04/12	1.6	2.6
TH-4	04/04/12	1.1	2.8
TH-5	04/04/12	1.3	2.4

Laboratory analytical results showed that the benzene, total BTEX, TPH, and chloride concentrations were below laboratory detection limits or NMOCD action levels in each of the samples. Laboratory analytical results are summarized in Table 2 and are included on Figure 3. Laboratory analytical reports are attached.

Table 2. Soil Laboratory Analytical Results, 52 & C-52 Loop Drip Pit Closure, April 2012

Sample ID	Date Sampled	Depth (ft)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	Chlorides (mg/kg)
NMOCD Action Level (NMAC 19.15.17.13C)			**0.2**	**50**	**100**		**250**
TH-1	4/4/12	1.7	<0.049	<0.246	<4.9	97	<1.5
TH-2	4/4/12	2	<0.050	<0.250	<5.0	50	2.7
TH-3	4/4/12	1.6	<0.048	<0.240	<4.8	40	<1.5
TH-4	4/4/12	1.1	<0.049	<0.244	<4.9	<10	<1.5
TH-5	4/4/12	1.3	<0.049	<0.245	<4.9	55	<1.5

3.0 Conclusions and Recommendations

NMOCD action levels for permanent pit closures are specified in New Mexico Administrative Code (NMAC) 19.15.17.13C. Benzene and BTEX concentrations in each sample were below the laboratory detection limits and the NMOCD action level of 0.2 mg/kg and 50 mg/kg, respectively. TPH concentrations as GRO/DRO were below the

NMOCD threshold of 100 mg/kg in each soil sample. The highest concentration was reported in TH-1 with 97 mg/kg. Chloride concentrations for all samples were below the NMOCD action level of 250 mg/kg. Based on field screening and laboratory analytical results for benzene, BTEX, TPH, and chlorides, no further work is recommended.

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

Sincerely,

Tami Ross

Tami C. Ross, CHMM
Project Manager

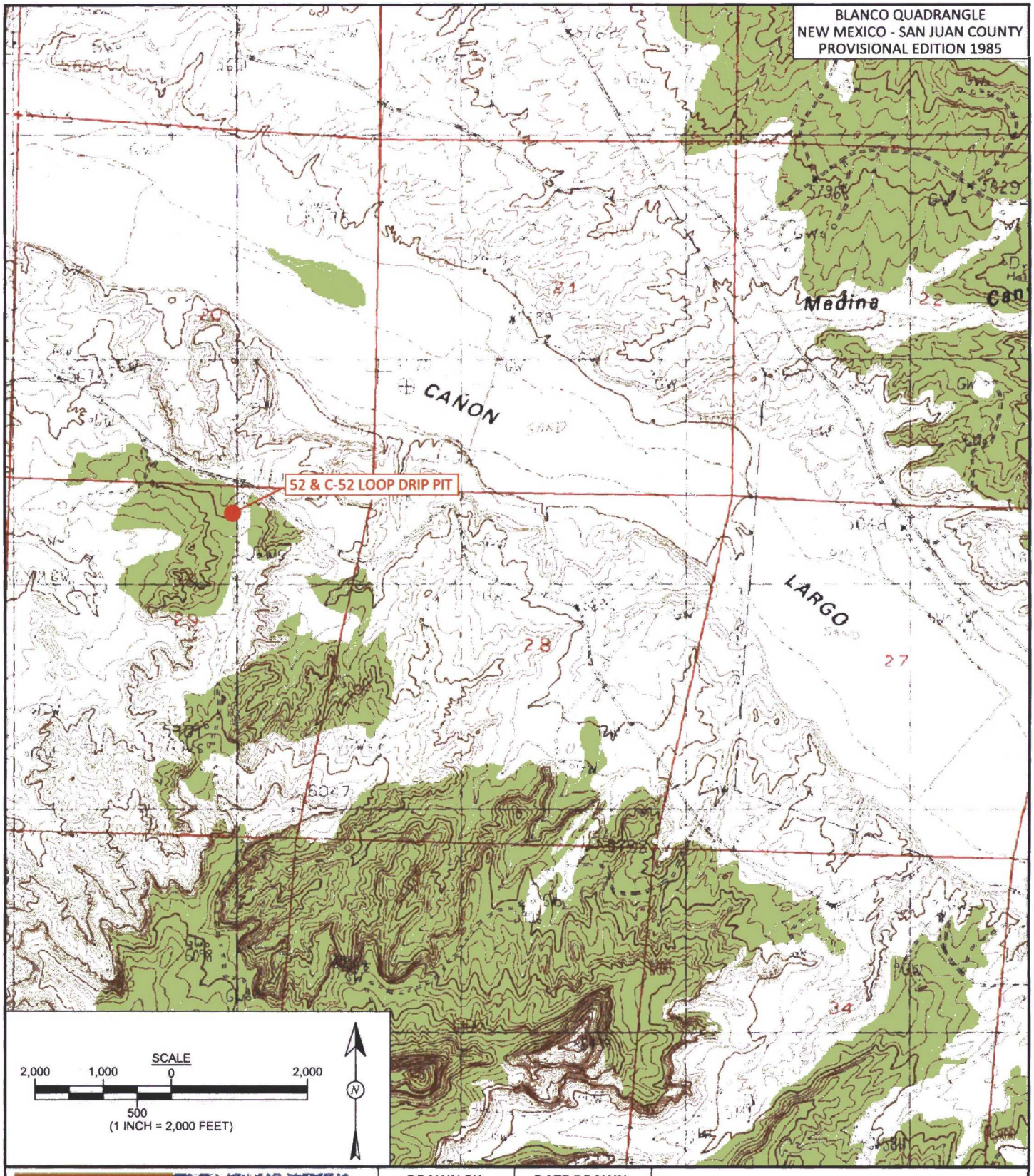
Elizabeth McNally

Elizabeth McNally, P.E.

Attachments:

Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Map
Figure 3. Sample Locations and Results, April 2012
Hall Analytical Report 1204238

S:\Animas 2000\2012 Projects\Enterprise\52 and C-52 Loop Drip Pit\52 and C-52 Loop Drip Pit Closure Report Draft 080312.docx

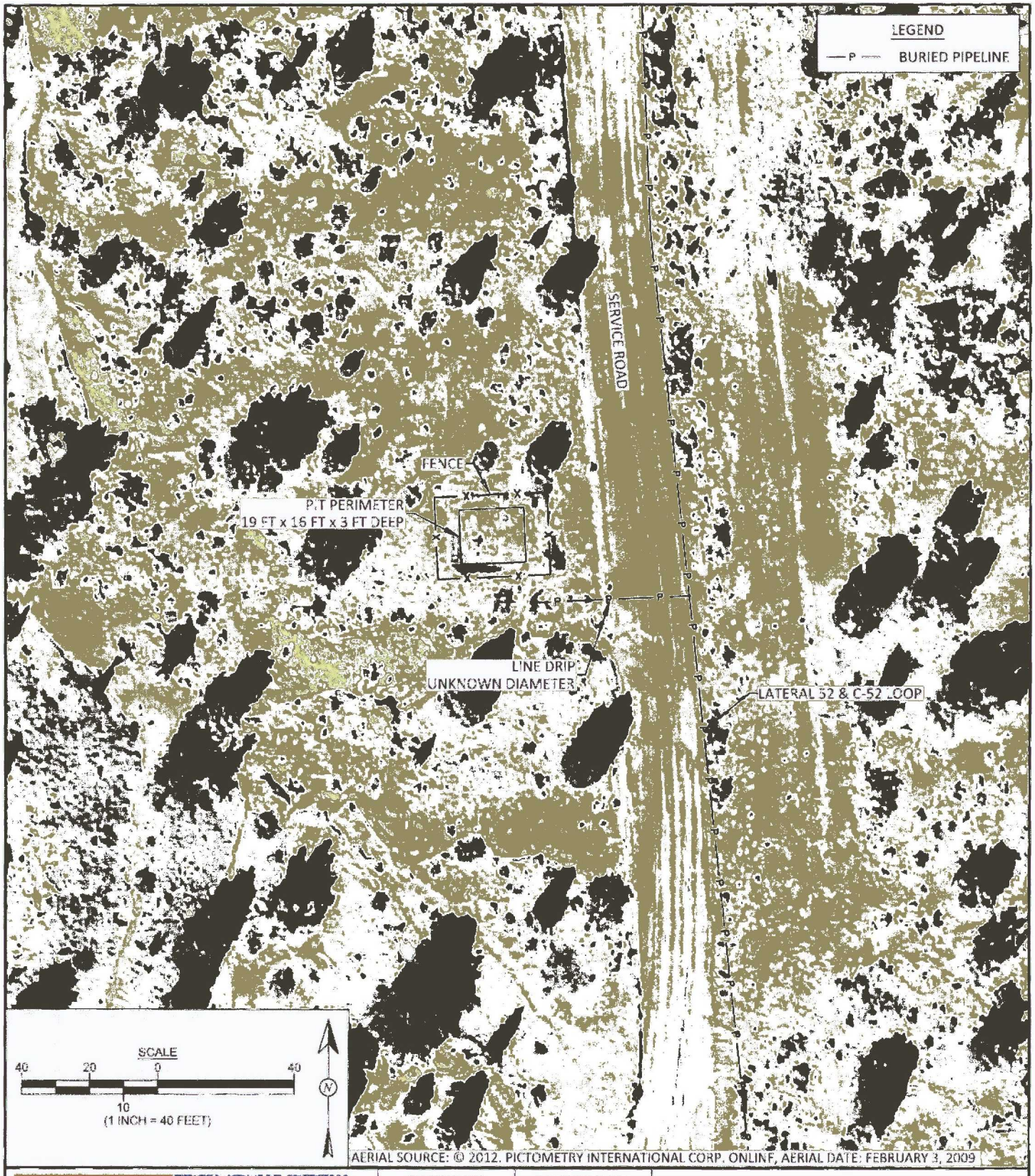


Animas Environmental Services, LLC

DRAWN BY: C. Lameman	**DATE DRAWN:** April 19, 2012
REVISIONS BY: C. Lameman	**DATE REVISED:** April 19, 2012
CHECKED BY: R. Kennemer	**DATE CHECKED:** July 25, 2012
APPROVED BY: E. McNally	**DATE APPROVED:** August 1, 2012

FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP
ENTERPRISE PRODUCTS COMPANY
52 & C-52 LOOP DRIP PIT
SAN JUAN COUNTY, NEW MEXICO
NW¼, NE¼, SECTION 29, T29N, R9W
N36.70240, W107.79888



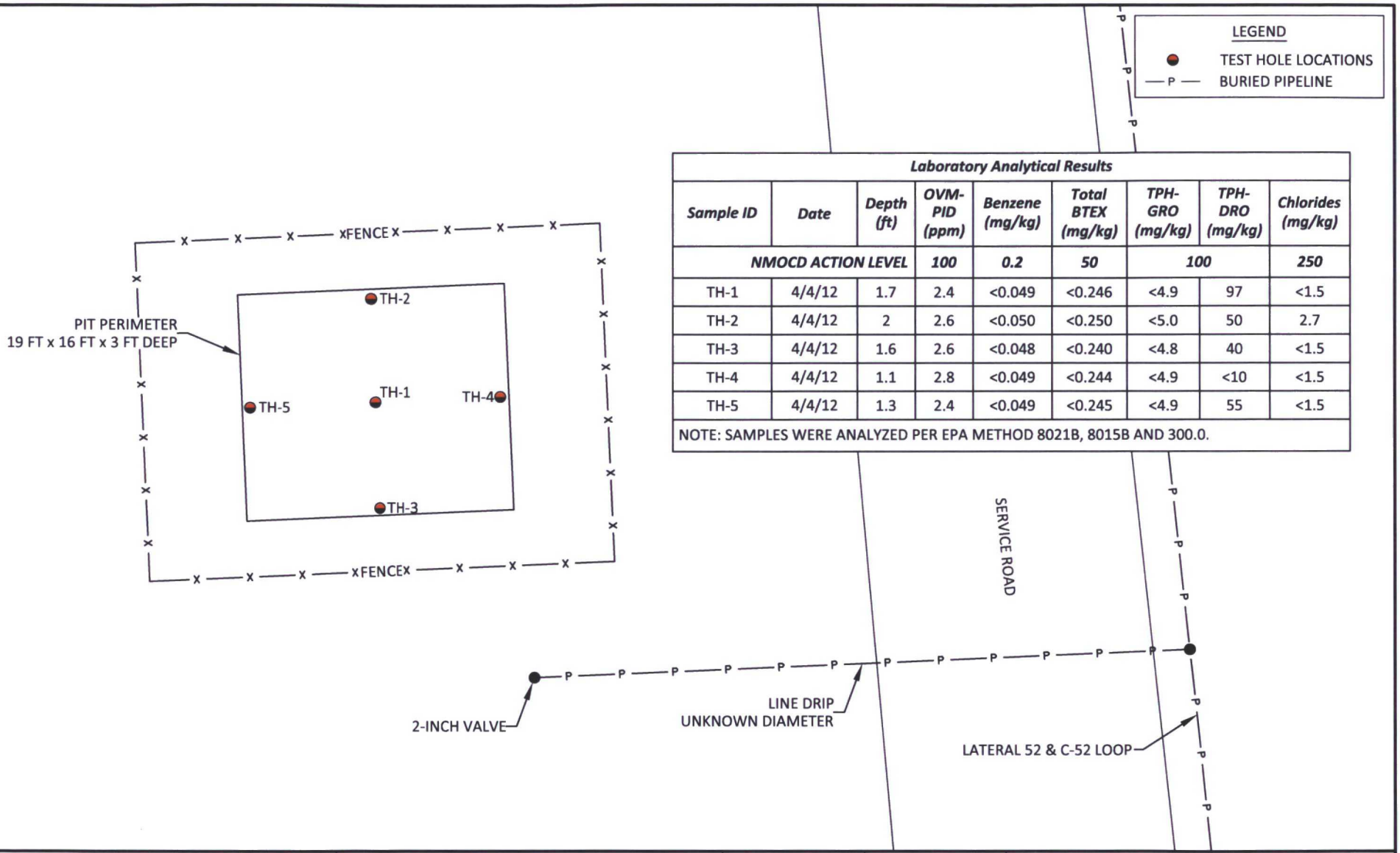
AES

Animas Environmental Services, LLC

DRAWN BY: C. Lameman	**DATE DRAWN:** April 19, 2012
REVISIONS BY: C. Lameman	**DATE REVISED:** April 19, 2012
CHECKED BY: R. Kennemer	**DATE CHECKED:** July 25, 2012
APPROVED BY: E. McNally	**DATE APPROVED:** August 1, 2012

FIGURE 2

AERIAL SITE MAP
ENTERPRISE PRODUCTS COMPANY
52 & C-52 LOOP DRIP PIT
SAN JUAN COUNTY, NEW MEXICO
NW¼, NE¼, SECTION 29, T29N, R9W
N36.70240, W107.79888



Laboratory Analytical Results

Sample ID	Date	Depth (ft)	OVM-PID (ppm)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	Chlorides (mg/kg)
NMOCD ACTION LEVEL			100	0.2	50	100		250
TH-1	4/4/12	1.7	2.4	<0.049	<0.246	<4.9	97	<1.5
TH-2	4/4/12	2	2.6	<0.050	<0.250	<5.0	50	2.7
TH-3	4/4/12	1.6	2.6	<0.048	<0.240	<4.8	40	<1.5
TH-4	4/4/12	1.1	2.8	<0.049	<0.244	<4.9	<10	<1.5
TH-5	4/4/12	1.3	2.4	<0.049	<0.245	<4.9	55	<1.5

NOTE: SAMPLES WERE ANALYZED PER EPA METHOD 8021B, 8015B AND 300.0.

SCALE
10 6 0 10
2
(1 INCH = 10 FEET)

N

Animas Environmental Services, LLC

DRAWN BY: C. Lameman	**DATE DRAWN:** April 19, 2012
REVISIONS BY: C. Lameman	**DATE REVISED:** April 19, 2012
CHECKED BY: R. Kennemer	**DATE CHECKED:** July 25, 2012
APPROVED BY: E. McNally	**DATE APPROVED:** August 1, 2012

FIGURE 3

SAMPLE LOCATIONS AND RESULTS
APRIL 2012
ENTERPRISE PRODUCTS COMPANY
52 & C-52 LOOP DRIP PIT
SAN JUAN COUNTY, NEW MEXICO
NW¼, NE¼, SECTION 29, T29N, R9W
N36.70240, W107.79888

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

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

April 12, 2012

Ross Kennemer

Animas Environmental Services
624 East Comanche
Farmington, NM 87401
TEL: (505) 564-2281
FAX (505) 324-2022

RE: 52 & C-52 Loop Drip Pit

OrderNo.: 1204238

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory received 5 sample(s) on 4/5/2012 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 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 **1204238**
Date Reported: **4/12/2012**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Project: 52 & C-52 Loop Drip Pit
Lab ID: 1204238-001 **Matrix:** SOIL

Client Sample ID: TH-1@20"
Collection Date: 4/4/2012 2:20:00 PM
Received Date: 4/5/2012 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	97	9.8		mg/Kg	1	4/8/2012 1:16:37 AM
Surr: DNOP	108	77.4-131		%REC	1	4/8/2012 1:16:37 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/9/2012 7:18:59 PM
Surr: BFB	100	69.7-121		%REC	1	4/9/2012 7:18:59 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.049		mg/Kg	1	4/9/2012 7:18:59 PM
Toluene	ND	0.049		mg/Kg	1	4/9/2012 7:18:59 PM
Ethylbenzene	ND	0.049		mg/Kg	1	4/9/2012 7:18:59 PM
Xylenes, Total	ND	0.099		mg/Kg	1	4/9/2012 7:18:59 PM
Surr: 4-Bromofluorobenzene	96.7	80-120		%REC	1	4/9/2012 7:18:59 PM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Chloride	ND	1.5		mg/Kg	1	4/9/2012 4:12:51 PM

Qualifiers:

*/X	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
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: TH-2@24"
Project: 52 & C-52 Loop Drip Pit
Collection Date: 4/4/2012 2:22:00 PM
Lab ID: 1204238-002 **Matrix:** SOIL **Received Date:** 4/5/2012 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	50	10		mg/Kg	1	4/8/2012 1:37:46 AM
Surr: DNOP	104	77.4-131		%REC	1	4/8/2012 1:37:46 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/9/2012 7:47:41 PM
Surr: BFB	99.6	69.7-121		%REC	1	4/9/2012 7:47:41 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	4/9/2012 7:47:41 PM
Toluene	ND	0.050		mg/Kg	1	4/9/2012 7:47:41 PM
Ethylbenzene	ND	0.050		mg/Kg	1	4/9/2012 7:47:41 PM
Xylenes, Total	ND	0.10		mg/Kg	1	4/9/2012 7:47:41 PM
Surr: 4-Bromofluorobenzene	95.1	80-120		%REC	1	4/9/2012 7:47:41 PM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Chloride	2.7	1.5		mg/Kg	1	4/9/2012 4:37:40 PM

Qualifiers:

*/X	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
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Project: 52 & C-52 Loop Drip Pit
Lab ID: 1204238-003 **Matrix:** SOIL

Client Sample ID: TH-3@19"
Collection Date: 4/4/2012 2:25:00 PM
Received Date: 4/5/2012 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	40	10		mg/Kg	1	4/8/2012 1:58:55 AM
Surr: DNOP	106	77.4-131		%REC	1	4/8/2012 1:58:55 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/9/2012 8:16:25 PM
Surr: BFB	101	69.7-121		%REC	1	4/9/2012 8:16:25 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.048		mg/Kg	1	4/9/2012 8:16:25 PM
Toluene	ND	0.048		mg/Kg	1	4/9/2012 8:16:25 PM
Ethylbenzene	ND	0.048		mg/Kg	1	4/9/2012 8:16:25 PM
Xylenes, Total	ND	0.096		mg/Kg	1	4/9/2012 8:16:25 PM
Surr: 4-Bromofluorobenzene	95.8	80-120		%REC	1	4/9/2012 8:16:25 PM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Chloride	ND	1.5		mg/Kg	1	4/9/2012 2:58:22 PM

Qualifiers:

*/X	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
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: TH-4@13"
Project: 52 & C-52 Loop Drip Pit
Collection Date: 4/4/2012 2:27:00 PM
Lab ID: 1204238-004 **Matrix:** SOIL **Received Date:** 4/5/2012 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/6/2012 6:21:08 PM
Surr: DNOP	94.4	77.4-131		%REC	1	4/6/2012 6:21:08 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/9/2012 8:45:09 PM
Surr: BFB	101	69.7-121		%REC	1	4/9/2012 8:45:09 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.049		mg/Kg	1	4/9/2012 8:45:09 PM
Toluene	ND	0.049		mg/Kg	1	4/9/2012 8:45:09 PM
Ethylbenzene	ND	0.049		mg/Kg	1	4/9/2012 8:45:09 PM
Xylenes, Total	ND	0.097		mg/Kg	1	4/9/2012 8:45:09 PM
Surr: 4-Bromofluorobenzene	97.2	80-120		%REC	1	4/9/2012 8:45:09 PM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Chloride	ND	1.5		mg/Kg	1	4/9/2012 12:54:14 PM

Qualifiers:

*/X	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
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Project: 52 & C-52 Loop Drip Pit
Lab ID: 1204238-005 **Matrix:** SOIL

Client Sample ID: TH-5@16"
Collection Date: 4/4/2012 2:30:00 PM
Received Date: 4/5/2012 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	55	9.8		mg/Kg	1	4/6/2012 6:42:35 PM
Surr: DNOP	104	77.4-131		%REC	1	4/6/2012 6:42:35 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/10/2012 6:22:41 PM
Surr: BFB	110	69.7-121		%REC	1	4/10/2012 6:22:41 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.049		mg/Kg	1	4/10/2012 6:22:41 PM
Toluene	ND	0.049		mg/Kg	1	4/10/2012 6:22:41 PM
Ethylbenzene	ND	0.049		mg/Kg	1	4/10/2012 6:22:41 PM
Xylenes, Total	ND	0.098		mg/Kg	1	4/10/2012 6:22:41 PM
Surr: 4-Bromofluorobenzene	98.0	80-120		%REC	1	4/10/2012 6:22:41 PM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Chloride	ND	1.5		mg/Kg	1	4/9/2012 1:19:03 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.
E	Value above quantitation range
J	Analyte detected below quantitation limits
R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
RL	Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1204238**

12-Apr-12

Client: Animas Environmental Services

Project: 52 & C-52 Loop Drip Pit

Sample ID	**MB-1412**	SampType: **MBLK**			TestCode: **EPA Method 300.0: Anions**					
Client ID:	**PBS**	Batch ID: **1412**			RunNo: **2004**					
Prep Date:	**4/6/2012**	Analysis Date: **4/9/2012**			SeqNo: **55785**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	**LCS-1412**	SampType: **LCS**			TestCode: **EPA Method 300.0: Anions**					
Client ID:	**LCSS**	Batch ID: **1412**			RunNo: **2004**					
Prep Date:	**4/6/2012**	Analysis Date: **4/9/2012**			SeqNo: **55786**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.0	90	110			

Sample ID	**1204093-001AMS**	SampType: **MS**			TestCode: **EPA Method 300.0: Anions**					
Client ID:	**BatchQC**	Batch ID: **1412**			RunNo: **2004**					
Prep Date:	**4/6/2012**	Analysis Date: **4/9/2012**			SeqNo: **55792**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0.5140	87.7	74.6	118			

Sample ID	**1204093-001AMSD**	SampType: **MSD**			TestCode: **EPA Method 300.0: Anions**					
Client ID:	**BatchQC**	Batch ID: **1412**			RunNo: **2004**					
Prep Date:	**4/6/2012**	Analysis Date: **4/9/2012**			SeqNo: **55793**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0.5140	88.4	74.6	118	0.788	20	

Qualifiers:

*/X	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
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1204238**

12-Apr-12

Client: Animas Environmental Services

Project: 52 & C-52 Loop Drip Pit

Sample ID **MB-1397**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **1397**	RunNo: **1949**
Prep Date: **4/5/2012**	Analysis Date: **4/6/2012**	SeqNo: **54287** 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		100	77.4	131			

Sample ID **LCS-1397**	SampType: **LCS**	TestCode: **EPA Method 8015B: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **1397**	RunNo: **1949**
Prep Date: **4/5/2012**	Analysis Date: **4/6/2012**	SeqNo: **54449** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
I Range Organics (DRO)	50	10	50.00	0	100	62.7	139			
Surr: DNOP	4.7		5.000		94.1	77.4	131			

Sample ID **1204093-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015B: Diesel Range Organics**
Client ID: **BatchQC**	Batch ID: **1397**	RunNo: **1949**
Prep Date: **4/5/2012**	Analysis Date: **4/6/2012**	SeqNo: **54714** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
I Range Organics (DRO)	55	9.9	49.60	0	110	57.2	146			
Surr: DNOP	4.9		4.960		99.6	77.4	131			

Sample ID **1204093-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015B: Diesel Range Organics**
Client ID: **BatchQC**	Batch ID: **1397**	RunNo: **1949**
Prep Date: **4/5/2012**	Analysis Date: **4/6/2012**	SeqNo: **54718** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	9.8	49.12	0	108	57.2	146	2.82	26.7	
Surr: DNOP	4.9		4.912		98.9	77.4	131	0	0	

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1204238**

12-Apr-12

Client: Animas Environmental Services

Project: 52 & C-52 Loop Drip Pit

Sample ID **MB-1393**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **PBS**	Batch ID: **1393**	RunNo: **2012**
Prep Date: **4/5/2012**	Analysis Date: **4/9/2012**	SeqNo: **56099** 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	1,000		1,000		100	69.7	121			

Sample ID **LCS-1393**	SampType: **LCS**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **LCSS**	Batch ID: **1393**	RunNo: **2012**
Prep Date: **4/5/2012**	Analysis Date: **4/9/2012**	SeqNo: **56100** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	115	98.5	133			
Surr: BFB	1,100		1,000		106	69.7	121			

Sample ID **1204093-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **BatchQC**	Batch ID: **1393**	RunNo: **2012**
Prep Date: **4/5/2012**	Analysis Date: **4/9/2012**	SeqNo: **56114** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	4.9	24.51	0	119	85.4	147			
Surr: BFB	1,000		980.4		107	69.7	121			

Sample ID **1204093-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **BatchQC**	Batch ID: **1393**	RunNo: **2012**
Prep Date: **4/5/2012**	Analysis Date: **4/9/2012**	SeqNo: **56115** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	4.8	24.08	0	122	85.4	147	0.769	19.2	
Surr: BFB	1,000		963.4		108	69.7	121	0	0	

Sample ID **MB-1436**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **PBS**	Batch ID: **1436**	RunNo: **2021**
Prep Date: **4/9/2012**	Analysis Date: **4/11/2012**	SeqNo: **56803** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1,000		1,000		101	69.7	121			

Sample ID **LCS-1436**	SampType: **LCS**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **LCSS**	Batch ID: **1436**	RunNo: **2021**
Prep Date: **4/9/2012**	Analysis Date: **4/11/2012**	SeqNo: **56804** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1,100		1,000		111	69.7	121			

Qualifiers:

*/X	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
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1204238**

12-Apr-12

Client: Animas Environmental Services

Project: 52 & C-52 Loop Drip Pit

Sample ID **MB-1393**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **1393**	RunNo: **2013**
Prep Date: **4/5/2012**	Analysis Date: **4/9/2012**	SeqNo: **56126** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.97		1.000		97.1	80	120			

Sample ID **LCS-1393**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **1393**	RunNo: **2013**
Prep Date: **4/5/2012**	Analysis Date: **4/9/2012**	SeqNo: **56127** 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	83.3	107			
Toluene	1.0	0.050	1.000	0	105	74.3	115			
Ethylbenzene	1.0	0.050	1.000	0	104	80.9	122			
Xylenes, Total	3.2	0.10	3.000	0	105	85.2	123			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Sample ID **1204093-001A MS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BatchQC**	Batch ID: **1393**	RunNo: **2013**
Prep Date: **4/5/2012**	Analysis Date: **4/9/2012**	SeqNo: **56138** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.050	0.9901	0	93.7	67.2	113			
Toluene	0.95	0.050	0.9901	0	95.9	62.1	116			
Ethylbenzene	0.92	0.050	0.9901	0	93.4	67.9	127			
Xylenes, Total	2.8	0.099	2.970	0	94.9	60.6	134			
Surr: 4-Bromofluorobenzene	0.97		0.9901		98.0	80	120			

Sample ID **1204093-001A MSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BatchQC**	Batch ID: **1393**	RunNo: **2013**
Prep Date: **4/5/2012**	Analysis Date: **4/9/2012**	SeqNo: **56139** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.049	0.9785	0	96.6	67.2	113	1.87	14.3	
Toluene	0.96	0.049	0.9785	0	98.1	62.1	116	1.14	15.9	
Ethylbenzene	0.95	0.049	0.9785	0	96.9	67.9	127	2.49	14.4	
Xylenes, Total	2.9	0.098	2.935	0	98.2	60.6	134	2.25	12.6	
Surr: 4-Bromofluorobenzene	0.99		0.9785		101	80	120	0	0	

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1204238**

12-Apr-12

Client: Animas Environmental Services

Project: 52 & C-52 Loop Drip Pit

Sample ID **MB-1436**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **1436**	RunNo: **2021**
Prep Date: **4/9/2012**	Analysis Date: **4/11/2012**	SeqNo: **56829** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.96		1.000		95.9	80	120			

Sample ID **LCS-1436**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **1436**	RunNo: **2021**
Prep Date: **4/9/2012**	Analysis Date: **4/11/2012**	SeqNo: **56834** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Sample ID **1204317-001AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BatchQC**	Batch ID: **1436**	RunNo: **2021**
Prep Date: **4/9/2012**	Analysis Date: **4/11/2012**	SeqNo: **56844** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		0.9833		103	80	120			

Sample ID **1204317-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BatchQC**	Batch ID: **1436**	RunNo: **2021**
Prep Date: **4/9/2012**	Analysis Date: **4/11/2012**	SeqNo: **56845** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.99		0.9542		104	80	120	0	0	

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Animas Environmental Work Order Number: 1204238

Received by/date: LM 04/05/12

Logged By: **Ashley Gallegos** 4/5/2012 9:45:00 AM AG

Completed By: **Ashley Gallegos** 4/5/2012 12:17:25 PM AG

Reviewed By:

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	4.9	Good	Yes			

Chain-of-Custody Record

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Client: Animas Environmental Services	X Standard ☐ Rush
Mailing Address: 624 E Comanche, Farmington, NM 87401	Project Name: 52 & C-52 Loop Drip Pit
Phone #: 505-327-1624	Project #:
email or Fax#: 505-324-2022	Project Manager: Ross Kennemer
QA/QC Package: X Standard ☐ Level 4 (Full Validation)	
Accreditation: ☐ NELAP ☐ Other ☐ EDD (Type)	Sampler: D. Watson; On Ice: ☑ Yes ☐ No; Sample Temperature: 4

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1204258	8021 BTEX	8015 TPH (GRO/DRO)	300.0 Chlorides	Air Bubbles (Y or N)
4/4/12	14:20	soil	TH-1 @ 20"	(1) 4-oz glass jar	non	-001	X	X	X	
4/4/12	14:22	soil	TH-2 @ 24"	(1) 4-oz glass jar	non	-002	X	X	X	
4/4/12	14:25	soil	TH-3 @ 19"	(1) 4-oz glass jar	non	-003	X	X	X	
4/4/12	14:27	soil	TH-4 @ 13"	(1) 4-oz glass jar	non	-004	X	X	X	
4/4/12	14:30	soil	TH-5 @ 16"	(1) 4-oz glass jar	non	-005	X	X	X	

Date	Time	Relinquished by	Received by	Date	Time
4/4/12	16:59	Deborah Watts	Christine Walters	4/4/12	1639
4/4/12	1710	Christine Walters		04/05/12	0945

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. Any sub-contracted data will be clearly notated on the analytical report.

Animas Environmental Services, LLC
www.animasenvironmental.com
624 E. Comanche
Farmington, NM 87401
505-564-2281
Durango, Colorado
970-403-3274

April 19, 2012

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

RE: Valverde Plant Train 8 Sump Release Report
February 2012 Release
San Juan County, New Mexico

Dear Mr. Dailey:

On March 5, 2012, Animas Environmental Services, LLC (AES) completed an assessment associated with release of an unknown amount of natural gas condensate and water from the Enterprise Products Company (Enterprise) Valverde Plant Train 8 sump. The release, which is located approximately 2 miles northeast of Bloomfield, San Juan County, New Mexico, resulted from an overflow of the Train 8 sump at Enterprise's Valverde Plant.

1.0 Site Information

1.1 Location

Location - SE¼ NE¼, Section 14, T29N, R11W, San Juan County, New Mexico
Latitude/Longitude - N36.72841 and W107.95591, respectively
Surface Owner – Private
Figure 1 – Topographic Site Location Map
Figure 2 – Aerial Site Map
Figure 3 – Soil Borings and Sample Locations, February 2012 Release
Figure 4 – Excavation Sample Locations and Results, February 2012 Release

1.2 NMOCD Ranking

Prior to site work, the New Mexico Oil Conservation Division (NMOCD) database was reviewed, and information obtained from the facility groundwater discharge permit cites that groundwater ranges from 26 to 55 feet below ground surface (bgs) on the southern half of the facility. This information was used in determining NMOCD ranking. Additionally, the New Mexico Office of the State Engineer (NMOSE) database was reviewed for nearby private domestic water wells, and records of one nearby registered water well (SJ 0007) were located.

Once on-site, AES personnel assessed the NMOCD ranking criteria using topographical interpretation, Global Position System (GPS) elevation readings, and visual reconnaissance. Based on an elevation differential between the release location (5,587 feet above mean sea level (amsl) and information obtained from the facility discharge permit, groundwater is estimated to be less than 50 feet bgs. Distance to the nearest surface water body, Citizens Ditch, is approximately 1,000 feet southwest of the release location. One water well (SJ 0007) is located within the facility within 1,000 feet of the release location. The location was assessed a NMOCD ranking score of 20.

1.3 Assessment and Mitigation

Initial response and remediation activities were performed by Enterprise contractor West States Energy Contractors (WSEC) on February 26, 2012. WSEC contained the release and excavated soil where visible staining was observed. WSEC stockpiled the petroleum hydrocarbon contaminated soil on plastic sheeting outside the fence on the southern property boundary. After the initial response activities were completed, WSEC backfilled the excavated areas; however, no closure samples were collected.

On February 27, 2012, Tom Long of AES completed a site assessment at the release location. Six soil borings were installed to depths of 3 feet bgs with a hand auger, and soil samples were collected for field screening. Soil boring locations are included on Figure 3.

On March 5, 2012, WSEC completed an excavation south of the Train 8 sump to remove petroleum hydrocarbon contaminated soil. AES collected field screening samples to evaluate the level of soil contamination present along the walls and base of the excavation. A test hole was also excavated approximately 25 feet to the west of the south end of the excavation to confirm that no hydrocarbon contamination was present further west.

The final excavation covered an area of approximately 729 square feet with an average depth of 4 feet deep. Approximately 136 cubic yards of petroleum hydrocarbon contaminated soil were transported by Doug Foutz Construction to Industrial Ecosystems, Inc. (IEI), located near Aztec, New Mexico, for disposal. Following the collection of soil confirmation samples, the excavation was backfilled with clean imported fill. A photograph log and waste manifests are attached.

2.0 Soil Sampling

Prior to backfilling the excavation, AES personnel collected nine composite soil samples (SC-1 through SC-9) and one discrete soil sample (TH-1) from the excavation base,

excavation sidewalls, and one test hole for field screening and confirmation laboratory analyses. Excavation samples (SC-1 through SC-9) were collected at depths ranging from 3 to 5 feet bgs, and the test hole sample TH-1 was collected at above 3 feet bgs. Soil sample locations are included on Figure 4.

2.1 Field Screening

2.1.1 Volatile Organic Compounds

Field-screening for volatile organic compounds (VOC) vapors was conducted with a Photo Ionization Detector (PID) Organic Vapor Meter (OVM). Before beginning field screening, the PID-OVM was first calibrated with 100 parts per million (ppm) isobutylene gas.

2.2 Laboratory Analyses

The soil samples collected for laboratory analysis (SC-1 through SC-9 and TH-1) 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;
- TPH for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015B.

2.3 Soil Field Screening and Laboratory Analytical Results

On February 27, 2012, soil samples collected for field screening (SB-1 through SB-6) had VOC concentrations (via OVM) ranging from 0.8 ppm in SB-6 (2 feet bgs) up to 772 ppm in SB-1 (1 foot bgs). VOC readings are included in Table 1 and presented on Figure 3.

On March 5, 2012, soil field screening results showed VOC concentrations that ranged from 3.0 ppm in TH-1 up to 138 ppm in SC-9. VOC readings are included in Table 1 and on Figure 4.

Laboratory analytical results for soil samples collected at SC-1 through SC-9 and TH-1 showed that benzene, total BTEX and TPH concentrations were either below laboratory detection limits or below applicable NMOCD action levels. Laboratory analytical results are included in Table 1 and on Figure 4. Laboratory analytical reports are attached.

Table 1. Soil Field Screening and Laboratory Analytical Results
Valverde Plant Train 8 February 2012 Release

Sample ID	Sample Date	Depth (ft bgs)	VOCs OVM (ppm)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)
NMOCD Action Level*			100	10	50	100	
SB-1	2/27/12	1	**772**	NA	NA	NA	NA
	2/27/12	2	**272**	NA	NA	NA	NA
SB-2	2/27/12	1	6	NA	NA	NA	NA
	2/27/12	2	**230**	NA	NA	NA	NA
SB-3	2/27/12	1	**296**	NA	NA	NA	NA
	2/27/12	2	68	NA	NA	NA	NA
SB-4	2/27/12	1	2.1	NA	NA	NA	NA
	2/27/12	2	1.6	NA	NA	NA	NA
SB-5	2/27/12	1	2.1	NA	NA	NA	NA
	2/27/12	2	1.8	NA	NA	NA	NA
SB-6	2/27/12	1	3.5	NA	NA	NA	NA
	2/27/12	2	0.8	NA	NA	NA	NA
	2/27/12	3	5.8	NA	NA	NA	NA
SC-1	3/5/12	1-3	12.4	<0.050	<0.249	6.0	<10
SC-2	3/5/12	3	32.8	<0.049	<0.245	<4.9	<10
SC-3	3/5/12	1-3	85	<0.048	0.13	8.1	<9.9
SC-4	3/5/12	1-3	34.7	<0.048	<0.240	16	<10
SC-5	3/5/12	4	91	<0.048	0.14	<4.8	<10
SC-6	3/5/12	1-4	42	<0.049	<0.246	<4.9	<10
SC-7	3/5/12	5	20	<0.049	<0.245	<4.9	<10
SC-8	3/5/12	1-5	126	<0.049	0.38	7.1	<10
SC-9	3/5/12	1-4	138	<0.049	<0.244	<4.9	<9.9
TH-1	3/5/12	3	3.0	<0.049	<0.244	<4.9	<9.6

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

3.0 Conclusions and Recommendations

AES completed an assessment of the Valverde Plant Train 8 sump release in February and March 2012. Soil field screening and laboratory analytical results showed that concentrations for benzene, BTEX and TPH were below laboratory detection limits or well below applicable standards. Note that VOC field screening readings from SC-8 (126 ppm) and SC-9 (138 ppm) on March 5, 2012, were confirmed with laboratory analyses for benzene and BTEX and showed concentrations to be below laboratory detection limits or below the NMOCD threshold of 10 mg/kg for BTEX.

NMOCD action levels for releases are specified NMOCD's *Guidelines for Leaks, Spills, and Releases* (August 1993). Based on field observations, field screening values, and laboratory analytical results for benzene, total BTEX, and TPH, petroleum hydrocarbon impacted soils have been removed to below NMOCD action levels. No further work is recommended.

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

Sincerely,

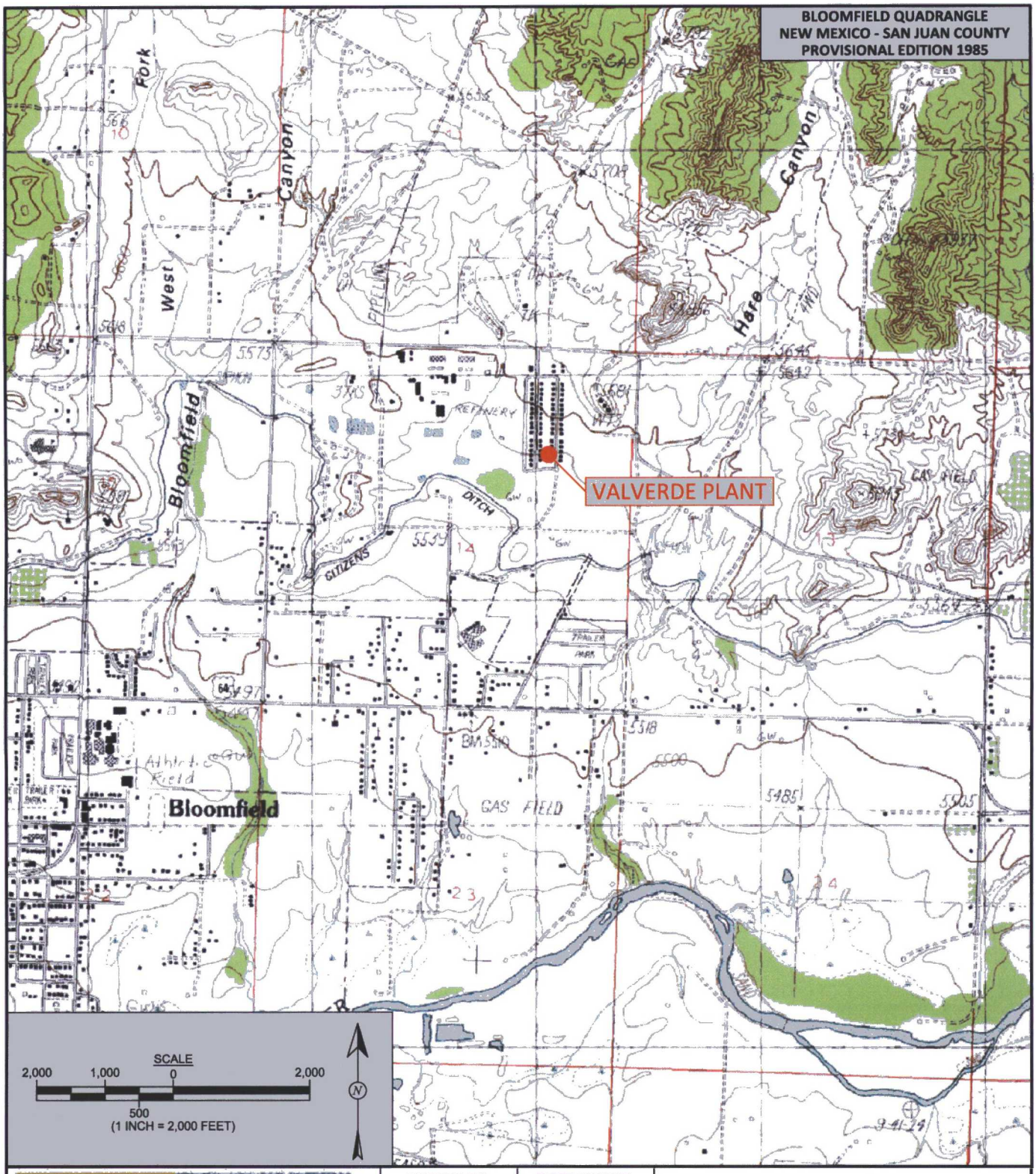
Thomas Long
Field Geologist

Elizabeth McNally, P.E.

Attachments:

Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Map
Figure 3. Soil Boring and Sample Locations, February 2012 Release
Figure 4. Excavation Sample Locations and Results, February 2012 Release
Photograph Log
Waste Disposal Manifests (C-138 documents)
Laboratory Analytical Reports (Hall 1203156)

S:\Animas 2000\2012 Projects\Enterprise\Valverde Plany\Valverde Plant Train 8 Sump Release Report 041912.docx

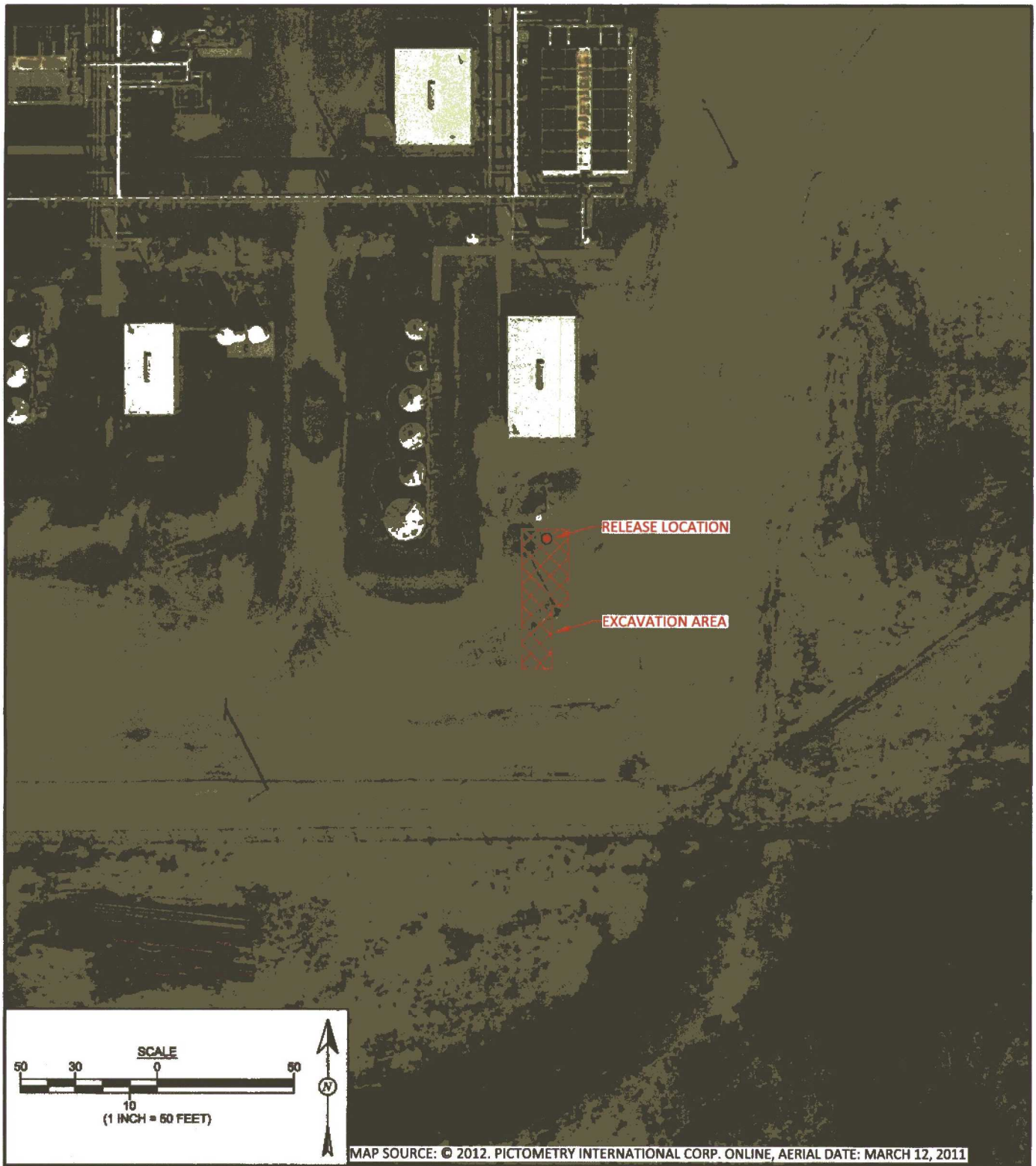


DRAWN BY: C. Lameman	**DATE DRAWN:** February 28, 2012
REVISIONS BY: C. Lameman	**DATE REVISED:** February 28, 2012
CHECKED BY: T. Long	**DATE CHECKED:** March 14, 2012
APPROVED BY: E. McNally	**DATE APPROVED:** April 19, 2012

Animas Environmental Services, LLC

FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP
ENTERPRISE PRODUCTS COMPANY
VALVERDE PLANT
SAN JUAN COUNTY, NEW MEXICO
SE¼, NE¼, SECTION 14, T29N, R11W
N36.72841, W107.95591



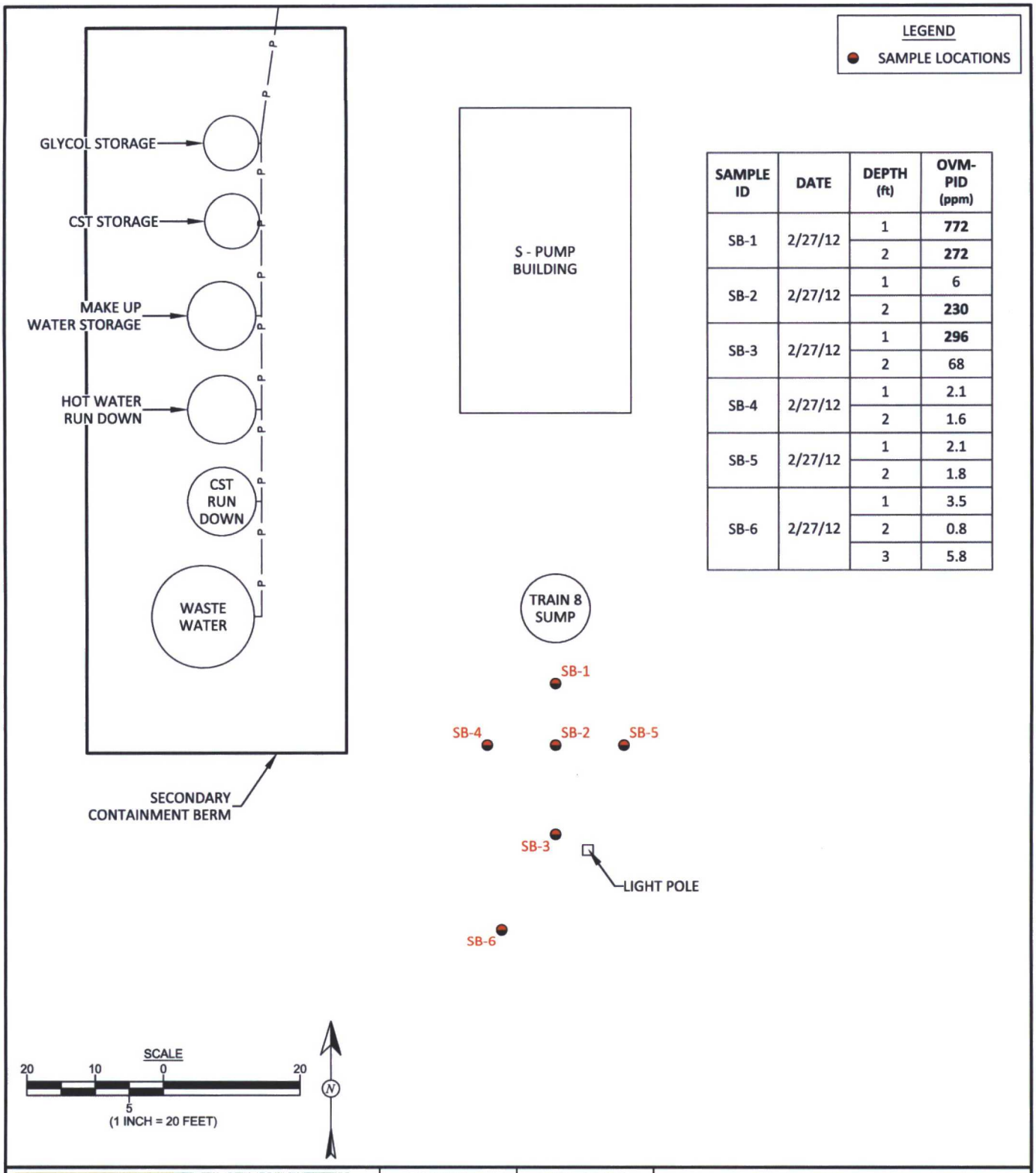
MAP SOURCE: © 2012. PICTOMETRY INTERNATIONAL CORP. ONLINE, AERIAL DATE: MARCH 12, 2011

Animas Environmental Services, LLC

DRAWN BY: C. Lameman	**DATE DRAWN:** February 28, 2012
REVISIONS BY: C. Lameman	**DATE REVISED:** February 28, 2012
CHECKED BY: T. Long	**DATE CHECKED:** March 14, 2012
APPROVED BY: E. McNally	**DATE APPROVED:** April 19, 2012

FIGURE 2

AERIAL SITE MAP
ENTERPRISE PRODUCTS COMPANY
VALVERDE PLANT
SAN JUAN COUNTY, NEW MEXICO
SE¼, NE¼, SECTION 14, T29N, R11W
N36.72841, W107.95591



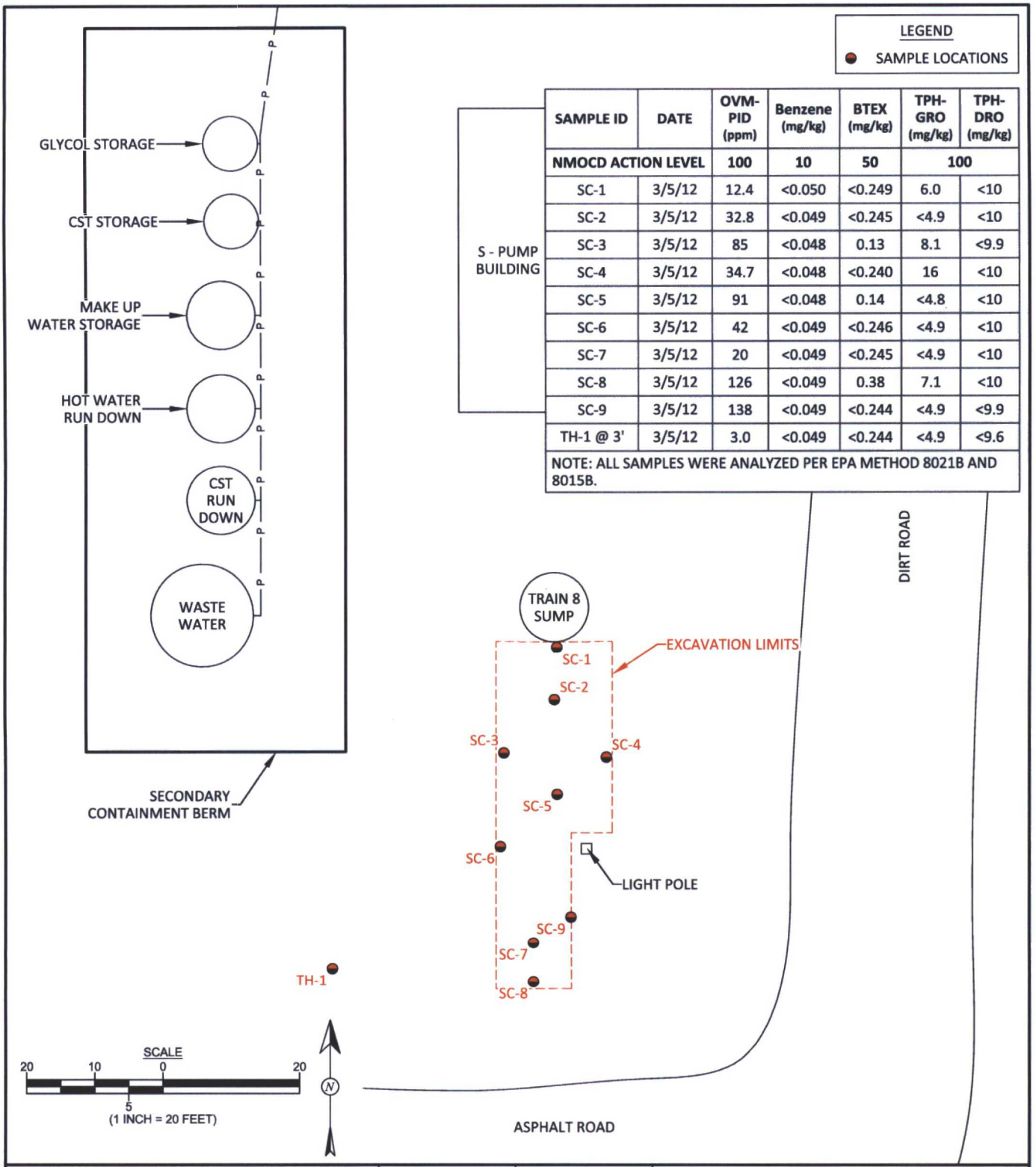
SAMPLE ID	DATE	DEPTH (ft)	OVM-PID (ppm)
SB-1	2/27/12	1	**772**
		2	**272**
SB-2	2/27/12	1	6
		2	**230**
SB-3	2/27/12	1	**296**
		2	68
SB-4	2/27/12	1	2.1
		2	1.6
SB-5	2/27/12	1	2.1
		2	1.8
SB-6	2/27/12	1	3.5
		2	0.8
		3	5.8

Animas Environmental Services, LLC

DRAWN BY: C. Lameman	**DATE DRAWN:** February 28, 2012
REVISIONS BY: C. Lameman	**DATE REVISED:** March 6, 2012
CHECKED BY: T. Long	**DATE CHECKED:** March 14, 2012
APPROVED BY: E. McNally	**DATE APPROVED:** April 19, 2012

FIGURE 3

SOIL BORINGS AND SAMPLE LOCATIONS, FEBRUARY 2012 RELEASE
ENTERPRISE PRODUCTS COMPANY
VALVERDE PLANT
SAN JUAN COUNTY, NEW MEXICO
SE¼, NE¼, SECTION 14, T29N, R11W
N36.72841, W107.95591



SAMPLE ID	DATE	OVM-PID (ppm)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)
NMOCD ACTION LEVEL		100	10	50	100	
SC-1	3/5/12	12.4	<0.050	<0.249	6.0	<10
SC-2	3/5/12	32.8	<0.049	<0.245	<4.9	<10
SC-3	3/5/12	85	<0.048	0.13	8.1	<9.9
SC-4	3/5/12	34.7	<0.048	<0.240	16	<10
SC-5	3/5/12	91	<0.048	0.14	<4.8	<10
SC-6	3/5/12	42	<0.049	<0.246	<4.9	<10
SC-7	3/5/12	20	<0.049	<0.245	<4.9	<10
SC-8	3/5/12	126	<0.049	0.38	7.1	<10
SC-9	3/5/12	138	<0.049	<0.244	<4.9	<9.9
TH-1 @ 3'	3/5/12	3.0	<0.049	<0.244	<4.9	<9.6

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

Animas Environmental Services, LLC

DRAWN BY: C. Lameman	**DATE DRAWN:** March 6, 2012
REVISIONS BY: C. Lameman	**DATE REVISED:** March 6, 2012
CHECKED BY: T. Long	**DATE CHECKED:** March 14, 2012
APPROVED BY: E. McNally	**DATE APPROVED:** April 19, 2012

FIGURE 4

EXCAVATION SAMPLE LOCATIONS AND RESULTS, FEBRUARY 2012 RELEASE
ENTERPRISE PRODUCTS COMPANY
VALVERDE PLANT
SAN JUAN COUNTY, NEW MEXICO
SE¼, NE¼, SECTION 14, T29N, R11W
N36.72841, W107.95591

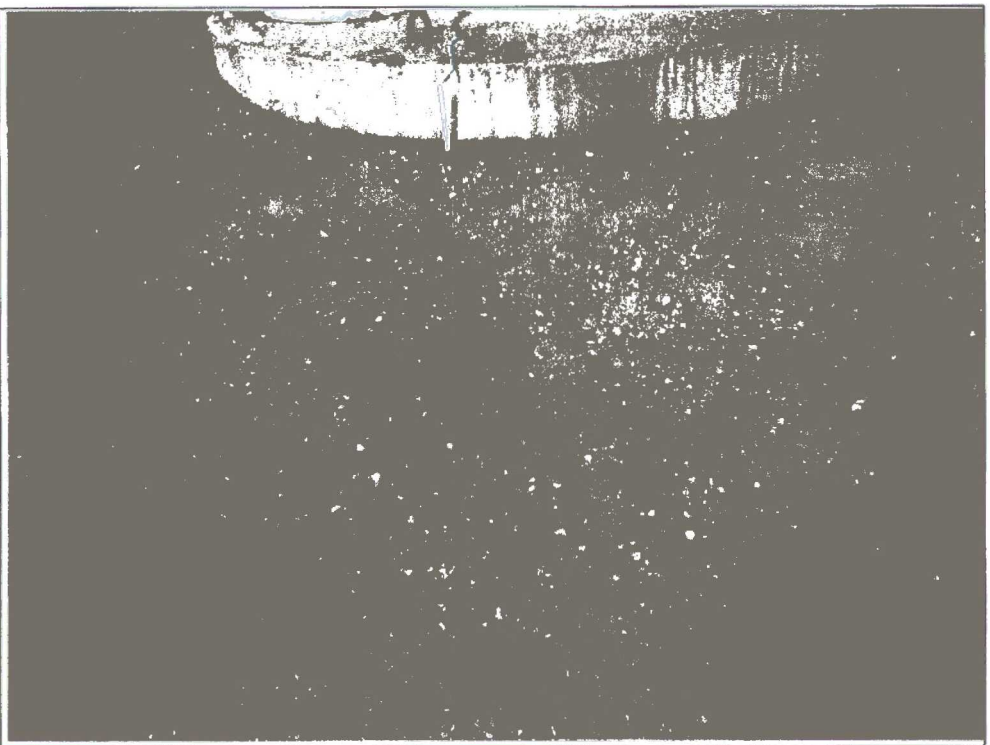
Photo #1	
Client: Enterprise Products Company	
Project: Val Verde Plant Train 8 Sump Release	
Taken by: Tom Long	
February 27, 2012	
AES Project No: 120236	Description: View soil boring SB-1 during the initial investigation.

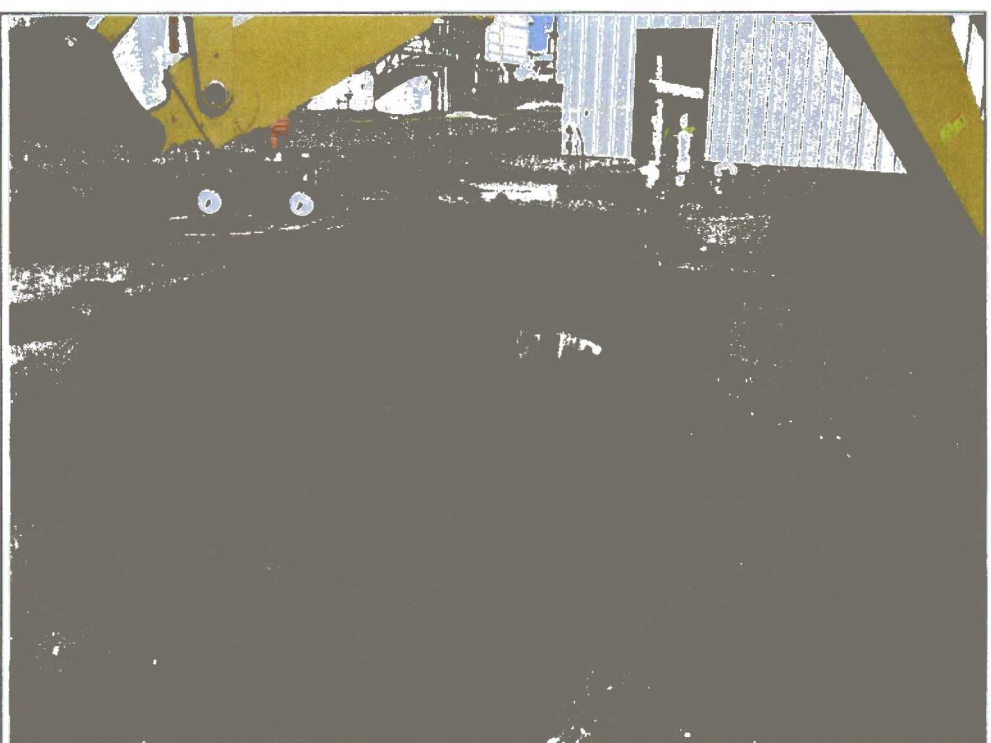
Photo #2	
Client: Enterprise Products Company	
Project: Val Verde Plant Train 8 Sump Release	
Taken by: Tom Long	
February 27, 2012	
AES Project No: 120236	Description: View of the excavation activities for the Train 8 sump overflow.

Photo #3	
Client: Enterprise Products Company	
Project: Val Verde Plant Train 8 Sump Release	
Taken by: Tom Long	
February 27, 2012	
AES Project No: 120236	Description: View of the excavation activities for the Train 8 sump overflow, View to the south.

Photo #4	
Client: Enterprise Products Company	
Project: Val Verde Plant Train 8 Sump Release	
Taken by: Tom Long	
February 27, 2012	
AES Project No: 120236	Description: View of the excavation activities for the Train 8 sump overflow.

Photo #5	
Client: Enterprise Products Company	
Project: Val Verde Plant Train 8 Sump Release	
Taken by: Tom Long	
February 27, 2012	
AES Project No: 120236	Description: View of the excavation activities for the Train 8 sump overflow.

Photo #6	
Client: Enterprise Products Company	
Project: Val Verde Plant Train 8 Sump Release	
Taken by: Tom Long	
February 27, 2012	
AES Project No: 120236	Description: View of the western leg of the excavation and the test hole to the west.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-138
Revised 08/01/11

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

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:
Enterprise Products Operating, L.P.

2. Originating Site:
Val Verde Gas Treating Facility Paylay : JA13061

3. Location of Material (Street Address, City, State or ULSTR):
Sec 14/T29N/R11W, Lat 107.9820W Lon 36.7327N, 1119 County Road 4900, Bloomfield, NM 87413 3-7-12 60cy

4. Source and Description of Waste:
Source: Amine train 7 and 8 Sump Area 3-6-12 40cy
Description: Exempt condensate stained soil from release cleanup activities
Estimated Volume 40 yd³ / bbls Known Volume (to be entered by the operator at the end of the haul) 360 yd³ / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

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

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

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

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☒ Process Knowledge ☐ Other (Provide description in Box

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, _____, representative for Enterprise Products authorize JFJ/IEI to com
Generator Signature
the required testing/sign the Generator Waste Testing Certification.

I, _____, representative for IEI do hereby certify that
Representative/Agent Signature
representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. Transporter: West States Energy Contractors (505)632-6988 Doug Fautz

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: **JFJ Landfarm/Industrial Ecosystems, Inc. * Permit #: NM 01-0010B**

Address of Facility: **# 49 CR 3150 Aztec, NM 87410**

Method of Treatment and/or Disposal:

☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

C-141
Ph-C

Waste Acceptance Status:

☒ **APPROVED** ☐ **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: L. Machado TITLE: Clerical DATE: 3-5-12

SIGNATURE: _____ TELEPHONE NO.: 505-632-1782
Surface Waste Management Facility Authorized Agent

3/5/12

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

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

April 13, 2012

Tami Ross

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

RE: Enterprise Val Verde Plants OrderNo.: 1204427

Dear Tami Ross:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/11/2012 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 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 **1204427**
Date Reported: **4/13/2012**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Carbon Media
Project: Enterprise Val Verde Plants
Collection Date: 4/10/2012 4:30:00 PM
Lab ID: 1204427-001
Matrix: MEOH (SOIL)
Received Date: 4/11/2012 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	110,000	2,000		mg/Kg	200	4/12/2012 2:41:49 PM
Motor Oil Range Organics (MRO)	ND	10,000		mg/Kg	200	4/12/2012 2:41:49 PM
Surr: DNOP	0	77.4-131	S	%REC	200	4/12/2012 2:41:49 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	240	100		mg/Kg	20	4/12/2012 6:31:55 PM
Surr: BFB	108	69.7-121		%REC	20	4/12/2012 6:31:55 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	12	1.0		mg/Kg	20	4/12/2012 6:31:55 PM
Toluene	56	1.0		mg/Kg	20	4/12/2012 6:31:55 PM
Ethylbenzene	2.9	1.0		mg/Kg	20	4/12/2012 6:31:55 PM
Xylenes, Total	16	2.0		mg/Kg	20	4/12/2012 6:31:55 PM
Surr: 4-Bromofluorobenzene	99.7	80-120		%REC	20	4/12/2012 6:31:55 PM

Qualifiers:

*/X	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
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1204427**

13-Apr-12

Client: Animas Environmental Services

Project: Enterprise Val Verde Plants

Sample ID **MB-1481**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **1481**	RunNo: **2046**
Prep Date: **4/11/2012**	Analysis Date: **4/11/2012**	SeqNo: **57041** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.9		10.00		99.4	77.4	131			

Sample ID **LCS-1481**	SampType: **LCS**	TestCode: **EPA Method 8015B: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **1481**	RunNo: **2046**
Prep Date: **4/11/2012**	Analysis Date: **4/11/2012**	SeqNo: **57042** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	10	50.00	0	82.8	62.7	139			
Surr: DNOP	4.7		5.000		93.0	77.4	131			

Sample ID **MB-1505**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **1505**	RunNo: **2071**
Prep Date: **4/12/2012**	Analysis Date: **4/12/2012**	SeqNo: **57799** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.5		10.00		95.4	77.4	131			

Sample ID **LCS-1505**	SampType: **LCS**	TestCode: **EPA Method 8015B: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **1505**	RunNo: **2071**
Prep Date: **4/12/2012**	Analysis Date: **4/12/2012**	SeqNo: **57804** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.5		5.000		89.5	77.4	131			

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1204427**

13-Apr-12

Client: Animas Environmental Services

Project: Enterprise Val Verde Plants

Sample ID **B5**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **PBS**	Batch ID: **R2054**	RunNo: **2054**
Prep Date:	Analysis Date: **4/11/2012**	SeqNo: **57183** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1,000		1,000		100	69.7	121			

Sample ID **2.5UG GRO LCS**	SampType: **LCS**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **LCSS**	Batch ID: **R2054**	RunNo: **2054**
Prep Date:	Analysis Date: **4/11/2012**	SeqNo: **57436** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1,100		1,000		111	69.7	121			

Sample ID **1204426-002AMS**	SampType: **MS**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **BatchQC**	Batch ID: **R2054**	RunNo: **2054**
Prep Date:	Analysis Date: **4/11/2012**	SeqNo: **57437** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	770		649.7		119	69.7	121			

Sample ID **1204426-002AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **BatchQC**	Batch ID: **R2054**	RunNo: **2054**
Prep Date:	Analysis Date: **4/11/2012**	SeqNo: **57438** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	790		649.7		121	69.7	121	0	0	S

Sample ID **MB-1460**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **PBS**	Batch ID: **1460**	RunNo: **2089**
Prep Date: **4/10/2012**	Analysis Date: **4/12/2012**	SeqNo: **58688** 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	1,000		1,000		101	69.7	121			

Sample ID **LCS-1460**	SampType: **LCS**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **LCSS**	Batch ID: **1460**	RunNo: **2089**
Prep Date: **4/10/2012**	Analysis Date: **4/12/2012**	SeqNo: **58689** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	5.0	25.00	0	121	98.5	133			
Surr: BFB	1,100		1,000		112	69.7	121			

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1204427**

13-Apr-12

Client: Animas Environmental Services

Project: Enterprise Val Verde Plants

Sample ID **1204362-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **BatchQC**	Batch ID: **1460**	RunNo: **2089**
Prep Date: **4/10/2012**	Analysis Date: **4/12/2012**	SeqNo: **58709** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	4.7	23.74	14.69	63.3	85.4	147			S
Surr: BFB	1,100		949.7		112	69.7	121			

Sample ID **1204362-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **BatchQC**	Batch ID: **1460**	RunNo: **2089**
Prep Date: **4/10/2012**	Analysis Date: **4/12/2012**	SeqNo: **58710** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	4.7	23.70	14.69	64.6	85.4	147	0.922	19.2	S
Surr: BFB	1,100		947.9		114	69.7	121	0	0	

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1204427**

13-Apr-12

Client: Animas Environmental Services

Project: Enterprise Val Verde Plants

Sample ID **B5**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **R2054**	RunNo: **2054**
Prep Date:	Analysis Date: **4/11/2012**	SeqNo: **57190** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.96		1.000		95.8	80	120			

Sample ID **1204426-003AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BatchQC**	Batch ID: **R2054**	RunNo: **2054**
Prep Date:	Analysis Date: **4/11/2012**	SeqNo: **57456** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.73		0.7231		101	80	120			

Sample ID **1204426-003AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BatchQC**	Batch ID: **R2054**	RunNo: **2054**
Prep Date:	Analysis Date: **4/11/2012**	SeqNo: **57457** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.74		0.7231		103	80	120	0	0	

Sample ID **100NG BTEX LCS**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **R2054**	RunNo: **2054**
Prep Date:	Analysis Date: **4/11/2012**	SeqNo: **57458** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.99		1.000		98.6	80	120			

Sample ID **MB-1460**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **1460**	RunNo: **2089**
Prep Date: **4/10/2012**	Analysis Date: **4/12/2012**	SeqNo: **58717** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.96		1.000		96.1	80	120			

Sample ID **LCS-1460**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **1460**	RunNo: **2089**
Prep Date: **4/10/2012**	Analysis Date: **4/12/2012**	SeqNo: **58718** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

Sample ID **1204365-001AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BatchQC**	Batch ID: **1460**	RunNo: **2089**
Prep Date: **4/10/2012**	Analysis Date: **4/12/2012**	SeqNo: **58737** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.95		0.9434		101	80	120			

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1204427**

13-Apr-12

Client: Animas Environmental Services

Project: Enterprise Val Verde Plants

Sample ID **1204365-001AMSD**	SampType: **MSD**		TestCode: **EPA Method 8021B: Volatiles**		
Client ID: **BatchQC**	Batch ID: **1460**		RunNo: **2089**		
Prep Date: **4/10/2012**	Analysis Date: **4/12/2012**		SeqNo: **58738**	Units: **%REC**	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.97		0.9560		102	80	120	0	0	

Qualifiers:

*/X	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
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Animas Environmental Work Order Number: 1204427

Received by/date: 04/11/12

Logged By: Ashley Gallegos 4/11/2012 10:05:00 AM

Completed By: Ashley Gallegos 4/11/2012 10:14:16 AM

Reviewed By: 04/11/12

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	# 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 °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.3	Good	Not Present			

Chain-of-Custody Record

Client: ~~Bod~~ Animas Environmental Services

Mailing Address: 624 E. Comanche

Farmington, 87401 NM

Phone #: 505-564-2281

email or Fax#: tross@animasenvironmental.com

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time: end of day

☐ Standard ☒ Rush by 4/13/12

Project Name: Enterprise Val Verde Plant

Project #:

Project Manager: TAMI ROSS

Sampler: ~~Brandon Wood~~ Kelsey Christiansen

On Ice: ☒ Yes ☐ No

Sample Temperature: 3°C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + ~~MTBE + TMB's~~ (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1) MRO	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
4/10/12	1630	SOLID	CARBON MEDIA	Heat tck #802	MeOH ice	-001	X		X													

Date:	Time:	Relinquished by:	Received by:	Date	Time
4/10	1647	Kelsey Christiansen	Christine Walters	4/10/12	1647
4/10/12	1711	Christine Walters		04/11/12	1005

Remarks: Bill to Enterprise Products Co

INCLUDE DRO / GRO / MRO

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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

March 08, 2012

Ross Kennemer

Animas Environmental Services
624 East Comanche
Farmington, NM 87401
TEL: (505) 564-2281
FAX (505) 324-2022

RE: Val Verde Plant Samp Overflow OrderNo.: 1203156

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory received 10 sample(s) on 3/6/2012 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 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 **1203156**
Date Reported: **3/8/2012**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: SC-1
Project: Val Verde Plant Samp Overflow
Collection Date: 3/5/2012 10:55:00 AM
Lab ID: 1203156-001 **Matrix:** SOIL **Received Date:** 3/6/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/7/2012 2:59:02 PM
Surr: DNOP	85.7	77.4-131		%REC	1	3/7/2012 2:59:02 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	6.0	5.0		mg/Kg	1	3/7/2012 12:27:33 PM
Surr: BFB	116	69.7-121		%REC	1	3/7/2012 12:27:33 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.050		mg/Kg	1	3/7/2012 12:27:33 PM
Toluene	ND	0.050		mg/Kg	1	3/7/2012 12:27:33 PM
Ethylbenzene	ND	0.050		mg/Kg	1	3/7/2012 12:27:33 PM
Xylenes, Total	ND	0.099		mg/Kg	1	3/7/2012 12:27:33 PM
Surr: 4-Bromofluorobenzene	99.8	85.3-139		%REC	1	3/7/2012 12:27:33 PM

Qualifiers:

*/X	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
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: SC-2
Project: Val Verde Plant Samp Overflow
Collection Date: 3/5/2012 10:58:00 AM
Lab ID: 1203156-002 **Matrix:** SOIL **Received Date:** 3/6/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/7/2012 10:37:18 AM
Surr: DNOP	81.7	77.4-131		%REC	1	3/7/2012 10:37:18 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/7/2012 12:57:48 PM
Surr: BFB	103	69.7-121		%REC	1	3/7/2012 12:57:48 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.049		mg/Kg	1	3/7/2012 12:57:48 PM
Toluene	ND	0.049		mg/Kg	1	3/7/2012 12:57:48 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/7/2012 12:57:48 PM
Xylenes, Total	ND	0.098		mg/Kg	1	3/7/2012 12:57:48 PM
Surr: 4-Bromofluorobenzene	101	85.3-139		%REC	1	3/7/2012 12:57:48 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.
E	Value above quantitation range
J	Analyte detected below quantitation limits
R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: SC-3
Project: Val Verde Plant Samp Overflow
Collection Date: 3/5/2012 11:40:00 AM
Lab ID: 1203156-003 **Matrix:** SOIL **Received Date:** 3/6/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/7/2012 10:58:40 AM
Surr: DNOP	87.1	77.4-131		%REC	1	3/7/2012 10:58:40 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	8.1	4.8		mg/Kg	1	3/7/2012 1:27:56 PM
Surr: BFB	117	69.7-121		%REC	1	3/7/2012 1:27:56 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.048		mg/Kg	1	3/7/2012 1:27:56 PM
Toluene	ND	0.048		mg/Kg	1	3/7/2012 1:27:56 PM
Ethylbenzene	ND	0.048		mg/Kg	1	3/7/2012 1:27:56 PM
Xylenes, Total	0.13	0.095		mg/Kg	1	3/7/2012 1:27:56 PM
Surr: 4-Bromofluorobenzene	103	85.3-139		%REC	1	3/7/2012 1:27:56 PM

Qualifiers:

*/X	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
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: SC-4
Project: Val Verde Plant Samp Overflow
Collection Date: 3/5/2012 11:50:00 AM
Lab ID: 1203156-004 **Matrix:** SOIL
Received Date: 3/6/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/7/2012 11:20:13 AM
Surr: DNOP	90.1	77.4-131		%REC	1	3/7/2012 11:20:13 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	16	4.8		mg/Kg	1	3/7/2012 1:58:18 PM
Surr: BFB	106	69.7-121		%REC	1	3/7/2012 1:58:18 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.048		mg/Kg	1	3/7/2012 1:58:18 PM
Toluene	ND	0.048		mg/Kg	1	3/7/2012 1:58:18 PM
Ethylbenzene	ND	0.048		mg/Kg	1	3/7/2012 1:58:18 PM
Xylenes, Total	ND	0.096		mg/Kg	1	3/7/2012 1:58:18 PM
Surr: 4-Bromofluorobenzene	103	85.3-139		%REC	1	3/7/2012 1:58:18 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.
E	Value above quantitation range
J	Analyte detected below quantitation limits
R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Project: Val Verde Plant Samp Overflow
Lab ID: 1203156-005 **Matrix:** SOIL

Client Sample ID: SC-5
Collection Date: 3/5/2012 1:07:00 PM
Received Date: 3/6/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/7/2012 12:03:08 PM
Surr: DNOP	90.9	77.4-131		%REC	1	3/7/2012 12:03:08 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/7/2012 2:28:41 PM
Surr: BFB	111	69.7-121		%REC	1	3/7/2012 2:28:41 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.048		mg/Kg	1	3/7/2012 2:28:41 PM
Toluene	ND	0.048		mg/Kg	1	3/7/2012 2:28:41 PM
Ethylbenzene	ND	0.048		mg/Kg	1	3/7/2012 2:28:41 PM
Xylenes, Total	0.14	0.095		mg/Kg	1	3/7/2012 2:28:41 PM
Surr: 4-Bromofluorobenzene	103	85.3-139		%REC	1	3/7/2012 2:28:41 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.
E	Value above quantitation range
J	Analyte detected below quantitation limits
R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Project: Val Verde Plant Samp Overflow
Lab ID: 1203156-006 **Matrix:** SOIL

Client Sample ID: SC-6
Collection Date: 3/5/2012 1:47:00 PM
Received Date: 3/6/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/7/2012 12:24:33 PM
Surr: DNOP	88.9	77.4-131		%REC	1	3/7/2012 12:24:33 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/7/2012 2:58:40 PM
Surr: BFB	111	69.7-121		%REC	1	3/7/2012 2:58:40 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.049		mg/Kg	1	3/7/2012 2:58:40 PM
Toluene	ND	0.049		mg/Kg	1	3/7/2012 2:58:40 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/7/2012 2:58:40 PM
Xylenes, Total	ND	0.099		mg/Kg	1	3/7/2012 2:58:40 PM
Surr: 4-Bromofluorobenzene	103	85.3-139		%REC	1	3/7/2012 2:58:40 PM

Qualifiers:

*/X	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
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: SC-7
Project: Val Verde Plant Samp Overflow
Collection Date: 3/5/2012 2:58:00 PM
Lab ID: 1203156-007 **Matrix:** SOIL **Received Date:** 3/6/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/7/2012 12:46:05 PM
Surr: DNOP	92.2	77.4-131		%REC	1	3/7/2012 12:46:05 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/7/2012 3:28:55 PM
Surr: BFB	94.5	69.7-121		%REC	1	3/7/2012 3:28:55 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.049		mg/Kg	1	3/7/2012 3:28:55 PM
Toluene	ND	0.049		mg/Kg	1	3/7/2012 3:28:55 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/7/2012 3:28:55 PM
Xylenes, Total	ND	0.098		mg/Kg	1	3/7/2012 3:28:55 PM
Surr: 4-Bromofluorobenzene	93.8	85.3-139		%REC	1	3/7/2012 3:28:55 PM

Qualifiers:

*/X	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
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: SC-8
Project: Val Verde Plant Samp Overflow
Collection Date: 3/5/2012 3:01:00 PM
Lab ID: 1203156-008 **Matrix:** SOIL
Received Date: 3/6/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/7/2012 1:07:32 PM
Surr: DNOP	89.2	77.4-131		%REC	1	3/7/2012 1:07:32 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	7.1	4.9		mg/Kg	1	3/7/2012 3:59:17 PM
Surr: BFB	117	69.7-121		%REC	1	3/7/2012 3:59:17 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.049		mg/Kg	1	3/7/2012 3:59:17 PM
Toluene	ND	0.049		mg/Kg	1	3/7/2012 3:59:17 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/7/2012 3:59:17 PM
Xylenes, Total	0.38	0.099		mg/Kg	1	3/7/2012 3:59:17 PM
Surr: 4-Bromofluorobenzene	102	85.3-139		%REC	1	3/7/2012 3:59:17 PM

Qualifiers:

*/X	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
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: SC-9
Project: Val Verde Plant Samp Overflow
Collection Date: 3/5/2012 3:04:00 PM
Lab ID: 1203156-009 **Matrix:** SOIL **Received Date:** 3/6/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/7/2012 3:20:35 PM
Surr: DNOP	87.9	77.4-131		%REC	1	3/7/2012 3:20:35 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/7/2012 4:29:27 PM
Surr: BFB	86.8	69.7-121		%REC	1	3/7/2012 4:29:27 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.049		mg/Kg	1	3/7/2012 4:29:27 PM
Toluene	ND	0.049		mg/Kg	1	3/7/2012 4:29:27 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/7/2012 4:29:27 PM
Xylenes, Total	ND	0.097		mg/Kg	1	3/7/2012 4:29:27 PM
Surr: 4-Bromofluorobenzene	85.8	85.3-139		%REC	1	3/7/2012 4:29:27 PM

Qualifiers:

*/X	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
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: TH-1@3'
Project: Val Verde Plant Samp Overflow
Collection Date: 3/5/2012 3:05:00 PM
Lab ID: 1203156-010 **Matrix:** SOIL **Received Date:** 3/6/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/7/2012 3:42:10 PM
Surr: DNOP	88.2	77.4-131		%REC	1	3/7/2012 3:42:10 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/7/2012 4:59:36 PM
Surr: BFB	85.2	69.7-121		%REC	1	3/7/2012 4:59:36 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.049		mg/Kg	1	3/7/2012 4:59:36 PM
Toluene	ND	0.049		mg/Kg	1	3/7/2012 4:59:36 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/7/2012 4:59:36 PM
Xylenes, Total	ND	0.097		mg/Kg	1	3/7/2012 4:59:36 PM
Surr: 4-Bromofluorobenzene	84.3	85.3-139	S	%REC	1	3/7/2012 4:59:36 PM

Qualifiers:

*/X	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
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1203156**

08-Mar-12

Client: Animas Environmental Services

Project: Val Verde Plant Samp Overflow

Sample ID **MB-966**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **966**	RunNo: **1303**
Prep Date: **3/6/2012**	Analysis Date: **3/7/2012**	SeqNo: **37163** 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	8.9		10.00		88.7	77.4	131			

Sample ID **LCS-966**	SampType: **LCS**	TestCode: **EPA Method 8015B: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **966**	RunNo: **1303**
Prep Date: **3/6/2012**	Analysis Date: **3/7/2012**	SeqNo: **37224** 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	87.7	62.7	139			
Surr: DNOP	4.3		5.000		86.5	77.4	131			

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1203156**

08-Mar-12

Client: Animas Environmental Services

Project: Val Verde Plant Samp Overflow

Sample ID **MB-962**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **PBS**	Batch ID: **962**	RunNo: **1340**
Prep Date: **3/6/2012**	Analysis Date: **3/7/2012**	SeqNo: **37738** 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		1,000		96.2	69.7	121			

Sample ID **LCS-962**	SampType: **LCS**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **LCSS**	Batch ID: **962**	RunNo: **1340**
Prep Date: **3/6/2012**	Analysis Date: **3/7/2012**	SeqNo: **37741** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	31	5.0	25.00	0	125	98.5	133			
Surr: BFB	1,000		1,000		104	69.7	121			

Sample ID **1203156-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **SC-1**	Batch ID: **962**	RunNo: **1340**
Prep Date: **3/6/2012**	Analysis Date: **3/7/2012**	SeqNo: **37742** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	35	4.8	24.25	6.024	119	85.4	147			
Surr: BFB	1,000		969.9		105	69.7	121			

Sample ID **1203156-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **SC-1**	Batch ID: **962**	RunNo: **1340**
Prep Date: **3/6/2012**	Analysis Date: **3/7/2012**	SeqNo: **37743** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	41	4.9	24.51	6.024	142	85.4	147	15.6	19.2	
Surr: BFB	1,000		980.4		105	69.7	121	0	0	

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1203156**

08-Mar-12

Client: Animas Environmental Services

Project: Val Verde Plant Samp Overflow

Sample ID **MB-962**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **962**	RunNo: **1340**
Prep Date: **3/6/2012**	Analysis Date: **3/7/2012**	SeqNo: **37756** 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		99.4	85.3	139			

Sample ID **LCS-962**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **962**	RunNo: **1340**
Prep Date: **3/6/2012**	Analysis Date: **3/7/2012**	SeqNo: **37771** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.050	1.000	0	98.2	83.3	107			
Toluene	0.99	0.050	1.000	0	99.4	74.3	115			
Ethylbenzene	1.1	0.050	1.000	0	105	80.9	122			
Xylenes, Total	3.3	0.10	3.000	0	109	85.2	123			
Surr: 4-Bromofluorobenzene	1.1		1.000		107	85.3	139			

Sample ID **1203156-002AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **SC-2**	Batch ID: **962**	RunNo: **1340**
Prep Date: **3/6/2012**	Analysis Date: **3/7/2012**	SeqNo: **37788** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.049	0.9756	0	104	67.2	113			
Toluene	1.1	0.049	0.9756	0	110	62.1	116			
Ethylbenzene	1.1	0.049	0.9756	0.009931	116	67.9	127			
Xylenes, Total	3.6	0.098	2.927	0.05949	120	60.6	134			
Surr: 4-Bromofluorobenzene	0.91		0.9756		93.7	85.3	139			

Sample ID **1203156-002AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **SC-2**	Batch ID: **962**	RunNo: **1340**
Prep Date: **3/6/2012**	Analysis Date: **3/7/2012**	SeqNo: **37795** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	0.9930	0	102	67.2	113	0.251	14.3	
Toluene	1.1	0.050	0.9930	0	106	62.1	116	1.76	15.9	
Ethylbenzene	1.1	0.050	0.9930	0.009931	113	67.9	127	1.44	14.4	
Xylenes, Total	3.5	0.099	2.979	0.05949	117	60.6	134	1.01	12.6	
Surr: 4-Bromofluorobenzene	1.1		0.9930		107	85.3	139	0	0	

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **Animas Environmental** Work Order Number: **1203156**

Received by/date: 03/06/12

Logged By: **Ashley Gallegos** **3/6/2012 10:00:00 AM**

Completed By: **Ashley Gallegos** **3/6/2012 10:53:56 AM**

Reviewed By: JO 03/06/12

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	4.5	Good	Yes			

Chain-of-Custody Record

Client: Animas Env. 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) _____

Turn-Around Time:
☑ Standard ☐ Rush _____

Project Name: Val Verde Plant Sump Overflow

Project #:

Project Manager: Ross Kennemer

Sampler: Thomas Long

On Ice: ☑ Yes ☐ No

Sample Temperature: 2.5

HALL ENVIRONMENTAL ANALYSIS LABORATORY
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4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + ~~MIBE~~ + ~~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_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y or N)
3/12	1055	soil	SC-1	1x4oz jar unpres		1	X		X									
	1058		SC-2			2	X		X									
	1140		SC-3			3	X		X									
	1150		SC-4			4	X		X									
	1307		SC-5			5	X		X									
	1347		SC-6			6	X		X									
	1458		SC-7			7	X		X									
	1501		SC-8			8	X		X									
	1504		SC-9			9	X		X									
↓	1505	↓	TH-1@3'	↓	↓	10	X		X									

Date	Time	Relinquished by:	Received by:	Date	Time
3/5/12	1645	Thomas Long	Christine Walker	3/5/12	1645
3/5/12	1711				

Remarks: Bill To Enterprise