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Site Investigation Report
Enterprise Products Company
Lateral 6C September 2011
Pipeline Release
NE¼ SW¼ Section 26, T28N, R11W
San Juan County, New Mexico

February 20, 2012

Prepared on behalf of:
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Prepared by:
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1.0 Introduction

Animas Environmental Services, LLC (AES), on behalf of Enterprise Products Company, Inc. (Enterprise), has prepared this Site Investigation Report for the Lateral 6C pipeline release that was discovered and confirmed in September 2011.

1.1 Site Location

The release area is located on Federal land under jurisdiction of the Bureau of Land Management (BLM) within the NE¼ SW¼, Section 26, T28N, R11W, San Juan County, New Mexico. Latitude and longitude of the release were recorded as N36°37.921' and W107°58.440', respectively, and site elevation is approximately 5,580 feet above mean sea level. The site is located approximately six miles south of Bloomfield, New Mexico, within the floodplain of Kutz Wash which is located 165 feet northeast. Kutz Wash flows north and ultimately discharges into the San Juan River. The depth of groundwater ranges from 14 to 16 feet below ground surface (bgs) at the site, and it is assumed, based on the proximity to Kutz Wash, the groundwater gradient is to the north. A topographic site location map is included as Figure 1, and an aerial map showing the release location is included as Figure 2.

1.2 Release Information

A release was reported at the location on September 21, 2011, by Enterprise Bisti Gathering Area personnel, and on the same date Enterprise personnel were dispatched to locate and isolate the leak. Release excavation and line repair work were completed on September 22 and 23, 2011. The cause of the release was identified as a small (¼-inch) corrosion hole on the underside of the line.

1.3 Initial Release Assessment

AES personnel met with Enterprise representatives at the release location on September 22, 2011. Due to the apparent size of the release, AES suggested that Enterprise repair the line and then contact AES when excavation of contaminant impacted soil could be completed. Following the repair, on September 23, 2011, AES collected one soil sample from the base of the small repair excavation at 6 feet below the ground surface (bgs). The sample was field screened for volatile organic compounds (VOCs) with a photo-ionization detector (PID) organic vapor meter (OVM). Based on the field screening reading of 3,974 part per million (ppm) and the anticipated shallow depth of groundwater, AES and Enterprise determined that a limited investigation of the release extent would be appropriate prior to implementing further contaminant mitigation measures.

2.0 Release Investigation – October and November 2011

2.1 Initial Investigation - October 2011

On October 11, 2011, AES completed four test hole excavations (TP-1 through TP-4) around the original release location and at distances of up to 100 feet from the release point. AES recorded the encountered soil materials, collected field screening samples and soil samples for laboratory analysis from each test hole, and collected groundwater samples from two of the test holes.

Six soil samples were collected from TP-1 through TP-4. One sample was collected at 10 feet bgs from both TP-1 and TP-3. Two samples were collected from TP-2 and TP-4 at 12 feet and 15 feet bgs.

Total benzene, toluene, ethylbenzene, and xylene (BTEX) and total petroleum hydrocarbons (TPH) for gasoline range organics (GRO) concentrations in sample TP-1 @ 10' exceeded the applicable New Mexico Oil Conservation Division (NMOCD) action levels with 169 mg/kg total BTEX and 1,429 mg/kg TPH. Benzene, total BTEX, TPH-GRO, and TPH for diesel range organics (DRO) concentrations in sample TP-2 @ 15' also exceeded the applicable NMOCD action levels with 45 mg/kg benzene, 513 mg/kg total BTEX, and 5,170 mg/kg TPH. Although some elevated OVM field screening values were recorded, BTEX and TPH concentrations in the remaining soil samples were either below laboratory detection limits or below applicable NMOCD action levels. Laboratory results were summarized in Table 1 of the AES letter report entitled *Soil and Groundwater Sampling Results* and dated October 28, 2011.

Groundwater samples were collected for laboratory analysis from TP-2 and TP-4. During sample collection, a sheen of condensate was observed in TP-2. Dissolved phase benzene, toluene, and xylene concentrations were reported above the New Mexico Water Quality Control Commission (WQCC) standards in TP-2, with 9,800 µg/L benzene, 15,000 µg/L toluene, and 6,700 µg/L xylene. Detailed laboratory results are summarized in Table 2 of the AES letter report entitled *Soil and Groundwater Sampling Results* and dated October 28, 2011.

Based on field screening and laboratory analytical results, AES recommended that Enterprise conduct further delineation of the soil and groundwater contamination in order to determine the most effective mitigation of the release.

2.2 Site Investigation - November 2011

On November 30, 2011, AES completed an additional site investigation with the purpose of delineating the full extent of petroleum hydrocarbon impact on subsurface soils and groundwater resulting from the release. The investigation included the installation of eight soil borings and the collection of soil and groundwater samples in accordance with U.S.

Environmental Protection Agency (USEPA) Environmental Response Team's Standard Operating Procedures (SOPs), and applicable American Society of Testing and Materials (ASTM) standards. The following sections detail the investigation.

2.2.1 Permits and Access Agreements

No property access agreements were necessary; however, Enterprise obtained necessary approval from the BLM prior to implementation of the investigation.

2.2.2 Utilities Notification

AES utilized the New Mexico One-Call system to identify and mark all underground utilities at the site before initiating the investigation.

2.2.3 Project Notification

AES notified Aaron Daily and Shane Cooley of Enterprise by telephone 48 hours prior to beginning the investigation.

2.2.4 Health and Safety Plan

AES has a company health and safety plan in place, and each employee is required to complete a health and safety orientation prior to participating in field operations for the first time. All on-site personnel are 40-hour HazWoper trained in accordance with OSHA regulations outlined in 29 CFR 1910.120(e). Prior to the start of the site investigation, AES prepared and implemented a comprehensive site-specific Job Safety Analysis (JSA) addressing the site investigation activities and associated soil and groundwater sampling. All employees and subcontractors were required to read and sign the JSA to acknowledge their understanding of the information contained within the JSA. The JSA was implemented and enforced on site by the assigned Site Safety and Health Officer.

2.2.5 Soil Borings

On November 30, 2011, AES installed eight soil borings (SB-1 through SB-8) with the purpose of defining the lateral and vertical extent of near surface and subsurface soil contamination and the lateral extent of groundwater contamination. Soil borings SB-1, SB-3, SB-4, SB-7 and SB-8 were advanced to a total depth of 20 feet bgs, and soil borings SB-2, SB-5, and SB-6 were advanced to a total depth of 16 feet bgs. The local site lithology is characterized as Kutz Wash alluvium consisting mainly of coarse sand, with a thin layer of silty clay at the ground surface to about 4 feet bgs. The locations of soil borings are presented on Figure 3.

2.2.5.1 Drilling Methods

Soil borings were advanced with a GeoProbe DT 6620 track-mounted direct push rig operated by Earth Worx, Los Lunas, New Mexico.

2.2.5.2 Soil Sample Collection

Soil samples were collected from a continuously driven core-barrel during advancement of the borings. One soil sample was collected from each core barrel and then split for field screening of VOCs with a PID-OVM and for laboratory analysis. The soil samples submitted for laboratory analysis were collected from the capillary fringe.

For each boring, a soil boring log was completed. These logs recorded sample identification, depth collected, and method of collection, as well as observations of soil moisture, color, grain size, contaminant presence, and overall stratigraphy. Soil boring logs are included in Appendix A.

2.2.5.3 Soil Field Screening

Samples were collected at 4 foot intervals from each soil boring and field screened for VOC vapors utilizing a PID-OVM calibrated with isobutylene gas. Once collected, the soil samples to be field screened were immediately placed in 1 quart glass jars and sealed with aluminum foil. The soil samples were then allowed to warm to approximately 80°F. Approximately 10 minutes were allowed for the soil to be heated and for any VOCs in the soil to accumulate in the headspace of the glass jar. During the initial stages of headspace development, the sample was gently shaken for 1 minute to promote vapor development and disaggregate the sample. VOCs were then measured by penetrating the aluminum foil with the sampling tube of the PID-OVM. The highest (peak) measurements were recorded onto the soil boring logs.

2.2.5.4 Soil Laboratory Analyses

Soil samples collected from the borings were submitted to a USEPA-approved laboratory, Hall Environmental Analysis Laboratory, Albuquerque, New Mexico, for laboratory analysis of the following parameters:

- BTEX per USEPA Method 8021
- TPH – GRO/DRO per USEPA Method 8015 Modified

2.2.6 Groundwater

2.2.6.1 Groundwater Sample Collection

Groundwater was encountered in each soil boring between 14 to 16 feet bgs. A total of eight groundwater samples (SB-1W through SB-8W) were collected from the borings using new and dedicated disposable bailers.

2.2.6.2 Laboratory Analyses - Groundwater

All groundwater analytical samples were analyzed for the following parameters:

- BTEX per USEPA Method 8021

2.2.7 Sample Preservation and Handling

Once collected, all samples were preserved in laboratory-supplied containers and stored in an insulated cooler containing ice. Samples were shipped by Hall Environmental Analysis Laboratory personnel in insulated coolers containing ice at less than 6°C via bus to the laboratory.

3.0 Site Investigation Results

3.1 Soil

Soil samples (SB-1 through SB-8) were collected from each boring for field screening and laboratory analysis. OVM field screening readings ranged from 0.0 to 1,982 ppm, with VOC concentrations above the NMOCD threshold of 100 ppm in SB-2 at 12 feet bgs (442 ppm) and SB-7 at 14 feet bgs (1,982 ppm). Soil analytical results from SB-2 at 12 feet bgs exceeded NMOCD action levels for benzene (31 mg/kg) and total BTEX (580 mg/kg). TPH concentrations exceeded the NMOCD action level in SB-2 (7,500 mg/kg) at 12 feet bgs, SB-7 (111 mg/kg) at 14 feet bgs and SB-8 (1,200 mg/kg) at 14 feet bgs. All other soil samples collected were below laboratory detection limits. Tabulated analytical results are presented in Table 1 and on Figure 3. Soil analytical laboratory reports are presented in Appendix B.

3.2 Groundwater

Groundwater samples (SB-1W through SB-8W) were collected from borings SB-1 through SB-8 for laboratory analysis. Analytical results showed that benzene concentrations exceeded the WQCC standard of 10 µg/L in three groundwater samples, SB-2W (2,800 µg/L), SB-3W (24 µg/L), and SB-7W (370 µg/L). Toluene concentrations exceeded the WQCC standard of 750 µg/L in SB-2W (5,700 µg/L) and SB-7W (810 µg/L), and total xylene concentrations exceeded the WQCC standard of 620 µg/L in SB-2W (4,000 µg/L). All other samples had BTEX concentrations either below laboratory detection limits or well below applicable WQCC standards. Tabulated groundwater analytical results are presented in Table 2 and on Figure 4. Dissolved phase benzene, toluene, and xylene concentration contour maps are provided in Figures 5 through 7, respectively. Groundwater analytical laboratory reports are presented in Appendix B.

4.0 Conclusion and Recommendations

A total of eight soil borings (SB-1 through SB -8) were installed by AES on November 30, 2011. Soil samples collected showed that contaminant concentrations exceeded NMOCD action levels in borings SB-2, SB-7, and SB-8. The highest benzene and total BTEX concentrations were reported in SB-2, with 31 mg/kg benzene and 580 mg/kg total BTEX. The highest TPH concentration was also reported in SB-2 with 7,500 mg/kg.

Dissolved phase analytical results indicate groundwater is impacted above the WQCC standard in SB-2W (benzene, toluene, and xylene), SB-3W (benzene), and SB-7W (benzene and toluene). The highest concentrations for benzene, toluene, and xylenes were reported in SB-2W with 2,800 µg/L benzene, 5,700 µg/L toluene, and 4,000 µg/L xylenes.

Dissolved phase concentration contour maps show that the release appears to have migrated primarily northwest along the pipeline corridor, with the highest concentrations noted in test hole TP-2 (installed in October 2011) and in the soil boring SB-2.

Based on the depth and lateral extent of contaminant impacted soil and groundwater, AES believes that the most practical and cost-effective remedial approach will be mechanical removal of residual contaminants. For example, the sandy soils at the site make air sparging and soil vapor extraction a technically feasible remediation alternative. AES recommends installing up to five permanent groundwater monitor wells and collecting additional monitoring and sampling data from which a corrective action plan can be developed.

5.0 Certification

I, the undersigned, am personally familiar with the information presented in this Site Investigation Report, prepared on behalf of Enterprise Products Company, Inc. for the September 2011 Lateral 6C pipeline release. I attest that it is true and complete to the best of my knowledge.

Tami Ross

Tami C. Ross, CHMM
Project Manager

Elizabeth McNally

Elizabeth McNally, P.E.
Principal

6.0 References

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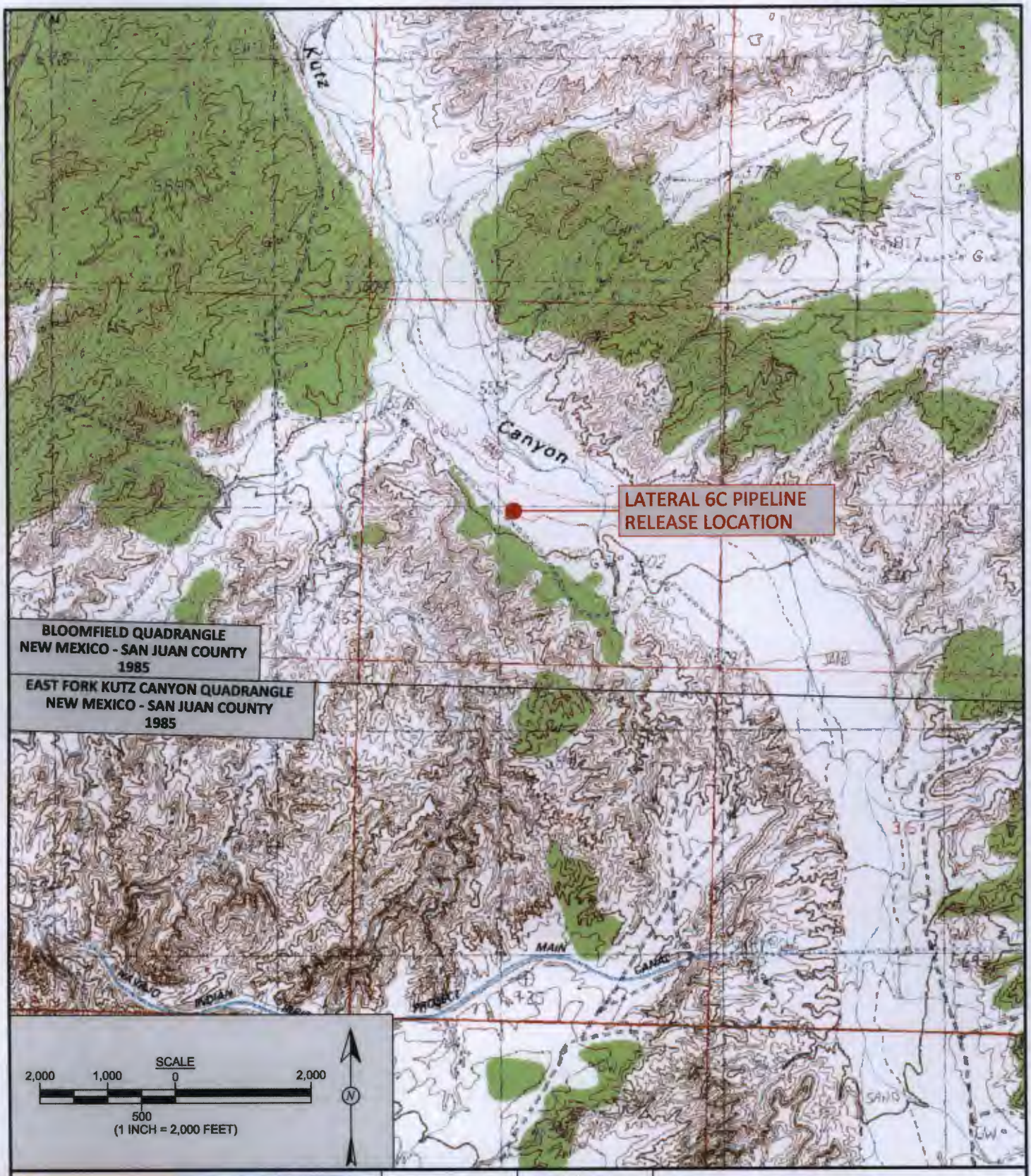
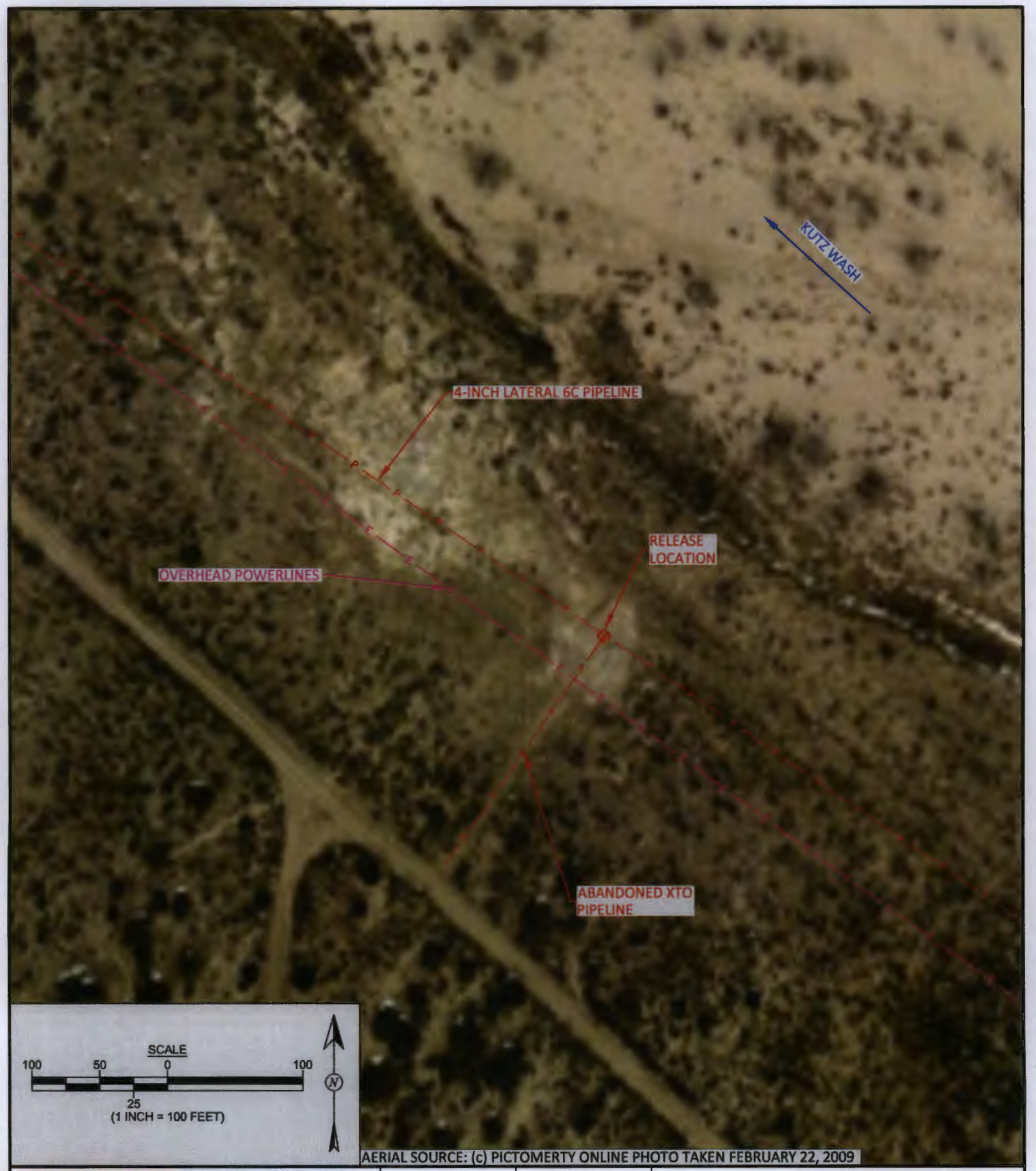


Animas Environmental Services, LLC	DRAWN BY: C. Lameman	DATE DRAWN: September 22, 2011	**FIGURE 1**
	REVISIONS BY: C. Lameman	DATE REVISED: February 20, 2012	**TOPOGRAPHIC SITE LOCATION MAP**
	CHECKED BY: T. Ross	DATE CHECKED: February 20, 2012	ENTERPRISE PRODUCTS COMPANY LATERAL 6C PIPELINE RELEASE LOCATION SAN JUAN COUNTY, NEW MEXICO NE¼, SW¼, SEC. 26, T28N, R11W N36°37.921', W107°58.440'
	APPROVED BY: E. McNally	DATE APPROVED: February 20, 2012	



AERIAL SOURCE: (c) PICTOMERTY ONLINE PHOTO TAKEN FEBRUARY 22, 2009

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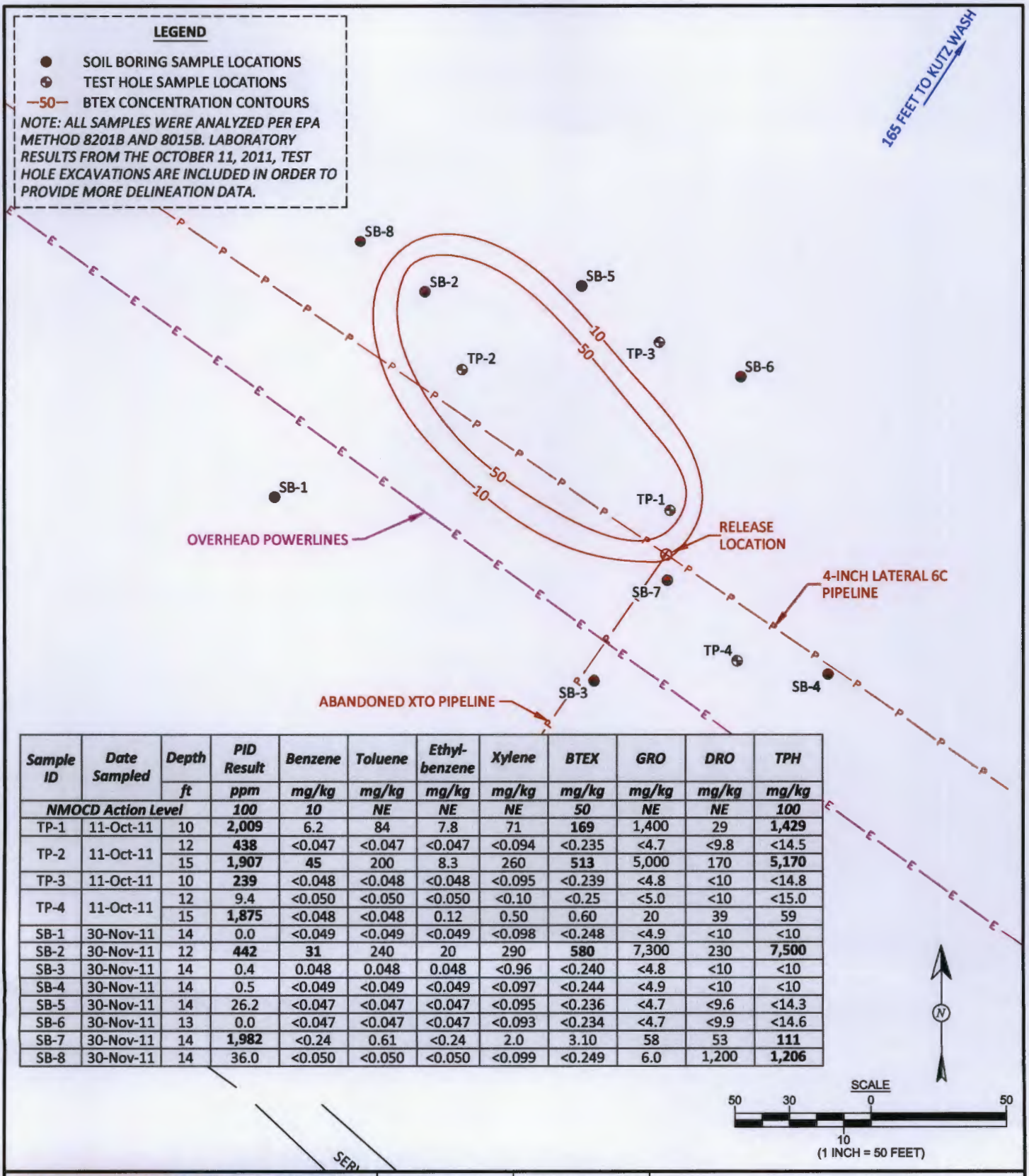
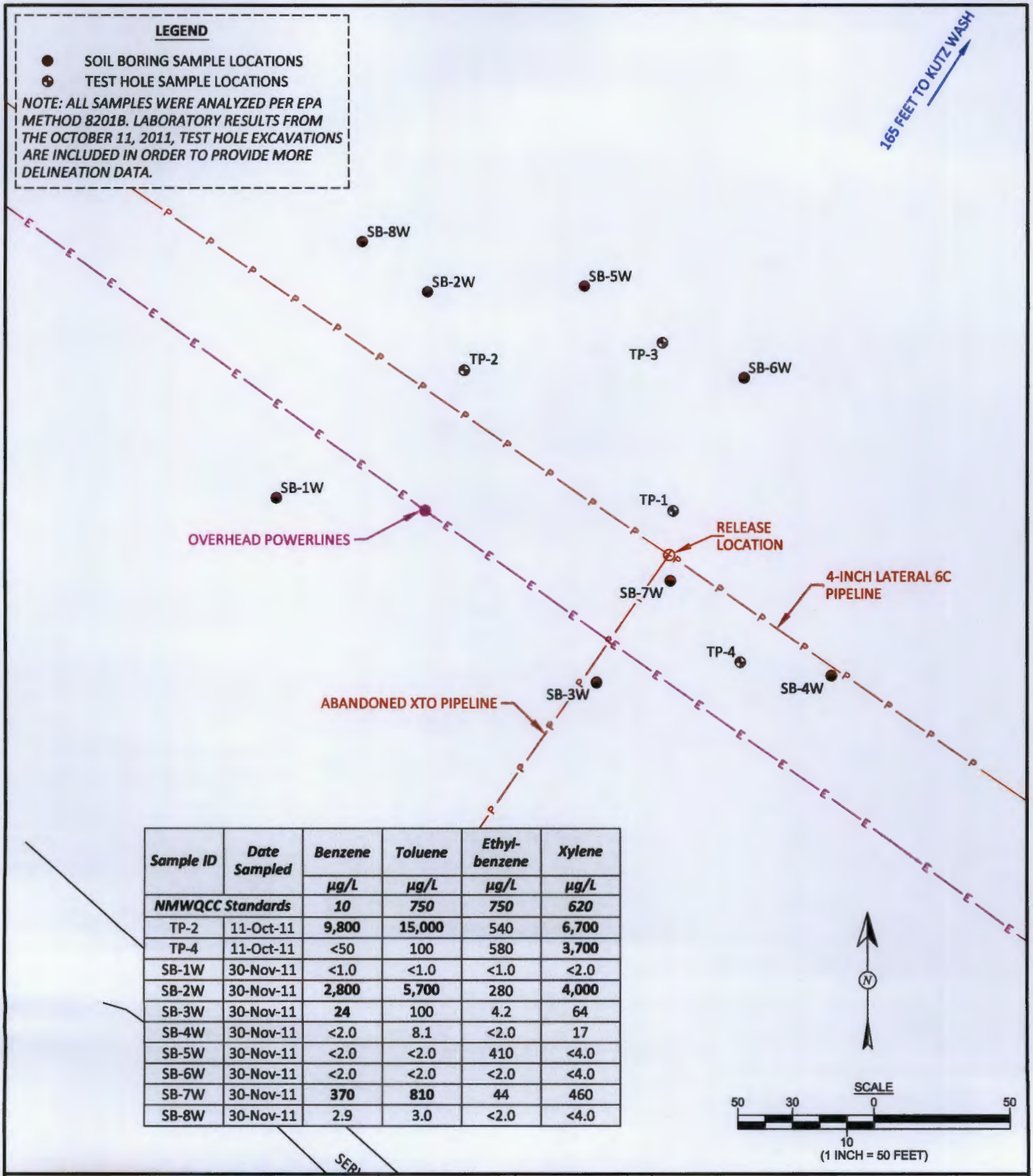
DRAWN BY: C. Lameman	**DATE DRAWN:** September 22, 2011	**FIGURE 2**
REVISIONS BY: C. Lameman	**DATE REVISED:** January 18, 2012	**AERIAL SITE MAP**
CHECKED BY: T. Ross	**DATE CHECKED:** January 18, 2012	ENTERPRISE PRODUCTS COMPANY LATERAL 6C PIPELINE RELEASE LOCATION SAN JUAN COUNTY, NEW MEXICO NE¼, SW¼, SEC. 26, T28N, R11W N36°37.921', W107°58.440'
APPROVED BY: E. McNally	**DATE APPROVED:** January 18, 2012	



Sample ID	Date Sampled	Depth	PID Result	Benzene	Toluene	Ethyl-benzene	Xylene	BTEX	GRO	DRO	TPH
		ft	ppm	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NMOCD Action Level			100	10	NE	NE	NE	50	NE	NE	100
TP-1	11-Oct-11	10	**2,009**	6.2	84	7.8	71	**169**	1,400	29	**1,429**
TP-2	11-Oct-11	12	**438**	<0.047	<0.047	<0.047	<0.094	<0.235	<4.7	<9.8	<14.5
		15	**1,907**	**45**	200	8.3	260	**513**	5,000	170	**5,170**
TP-3	11-Oct-11	10	**239**	<0.048	<0.048	<0.048	<0.095	<0.239	<4.8	<10	<14.8
TP-4	11-Oct-11	12	9.4	<0.050	<0.050	<0.050	<0.10	<0.25	<5.0	<10	<15.0
		15	**1,875**	<0.048	<0.048	0.12	0.50	0.60	20	39	59
SB-1	30-Nov-11	14	0.0	<0.049	<0.049	<0.049	<0.098	<0.248	<4.9	<10	<10
SB-2	30-Nov-11	12	**442**	**31**	240	20	290	**580**	7,300	230	**7,500**
SB-3	30-Nov-11	14	0.4	0.048	0.048	0.048	<0.96	<0.240	<4.8	<10	<10
SB-4	30-Nov-11	14	0.5	<0.049	<0.049	<0.049	<0.097	<0.244	<4.9	<10	<10
SB-5	30-Nov-11	14	26.2	<0.047	<0.047	<0.047	<0.095	<0.236	<4.7	<9.6	<14.3
SB-6	30-Nov-11	13	0.0	<0.047	<0.047	<0.047	<0.093	<0.234	<4.7	<9.9	<14.6
SB-7	30-Nov-11	14	**1,982**	<0.24	0.61	<0.24	2.0	3.10	58	53	**111**
SB-8	30-Nov-11	14	36.0	<0.050	<0.050	<0.050	<0.099	<0.249	6.0	1,200	**1,206**

Animas Environmental Services, LLC

DRAWN BY: C. Lameman	**DATE DRAWN:** December 27, 2011	**FIGURE 3**
REVISIONS BY: C. Lameman	**DATE REVISED:** February 20, 2012	**SOIL SAMPLE ANALYTICAL RESULTS NOVEMBER 2011**
CHECKED BY: T. Ross	**DATE CHECKED:** February 20, 2012	ENTERPRISE PRODUCTS COMPANY LATERAL 6C PIPELINE RELEASE LOCATION SAN JUAN COUNTY, NEW MEXICO
APPROVED BY: E. McNally	**DATE APPROVED:** February 20, 2012	NE¼, SW¼, SEC. 26, T28N, R11W N36°37.921', W107°58.440



Sample ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Xylene
		µg/L	µg/L	µg/L	µg/L
NMWQCC Standards		10	750	750	620
TP-2	11-Oct-11	9,800	15,000	540	6,700
TP-4	11-Oct-11	<50	100	580	3,700
SB-1W	30-Nov-11	<1.0	<1.0	<1.0	<2.0
SB-2W	30-Nov-11	2,800	5,700	280	4,000
SB-3W	30-Nov-11	24	100	4.2	64
SB-4W	30-Nov-11	<2.0	8.1	<2.0	17
SB-5W	30-Nov-11	<2.0	<2.0	410	<4.0
SB-6W	30-Nov-11	<2.0	<2.0	<2.0	<4.0
SB-7W	30-Nov-11	370	810	44	460
SB-8W	30-Nov-11	2.9	3.0	<2.0	<4.0

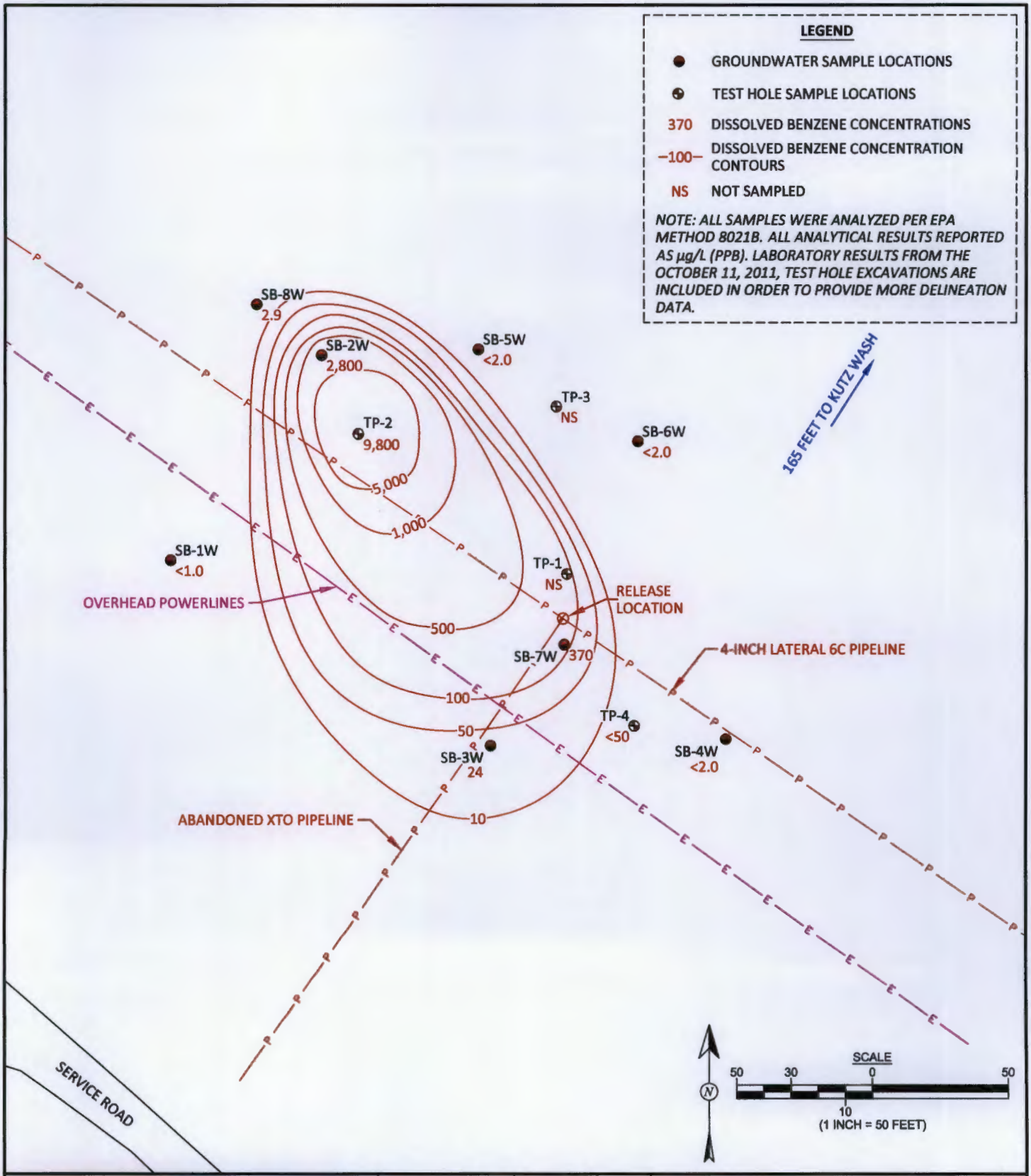
Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: December 27, 2011
REVISIONS BY: C. Lameman	DATE REVISED: February 20, 2012
CHECKED BY: T. Ross	DATE CHECKED: February 20, 2012
APPROVED BY: E. McNally	DATE APPROVED: February 20, 2012

FIGURE 4

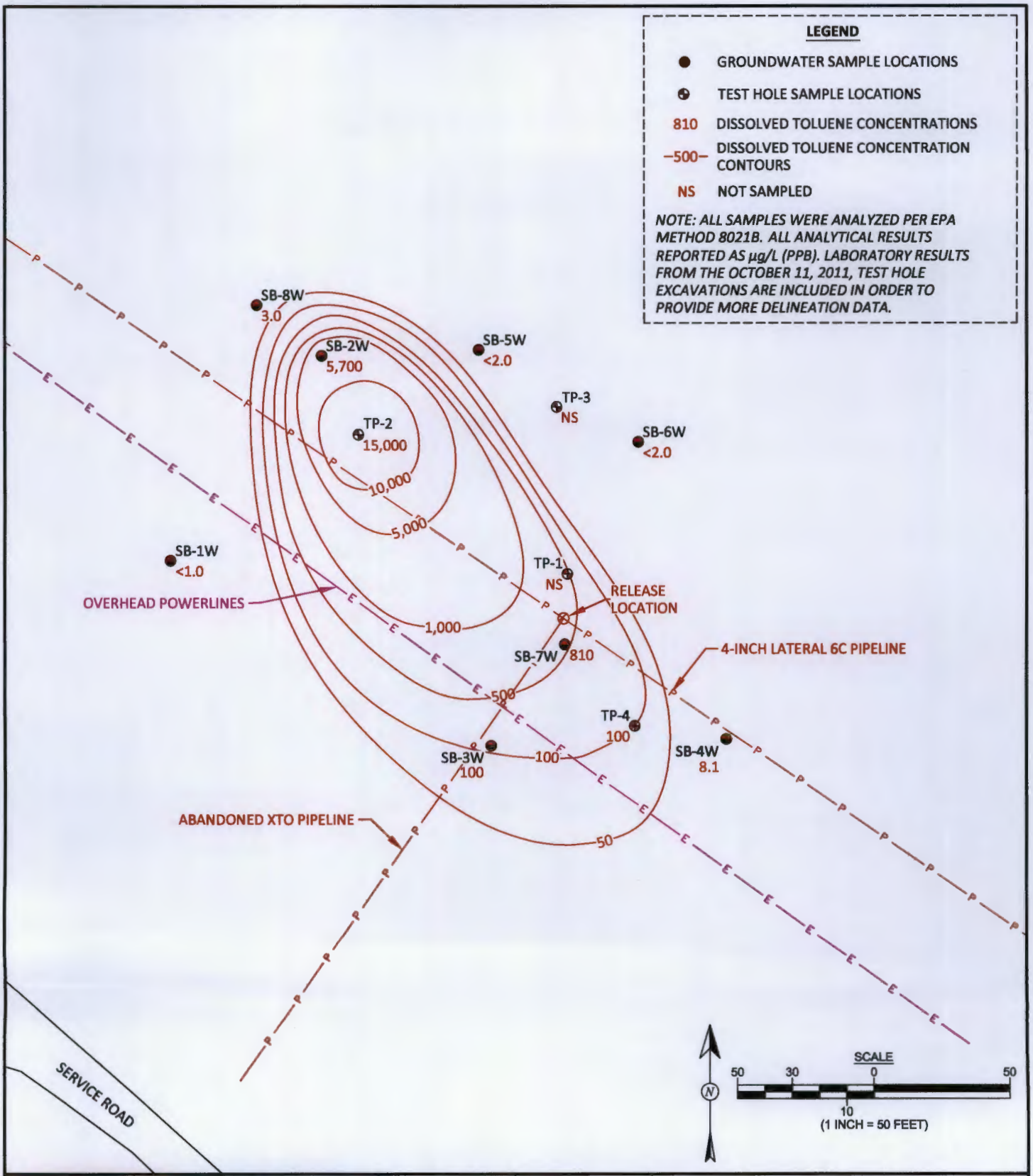
GROUNDWATER ANALYTICAL RESULTS NOVEMBER 2011

ENTERPRISE PRODUCTS COMPANY
LATERAL 6C PIPELINE RELEASE LOCATION
SAN JUAN COUNTY, NEW MEXICO
NE¼, SW¼, SEC. 26, T28N, R11W
N36°37.921', W107°58.440

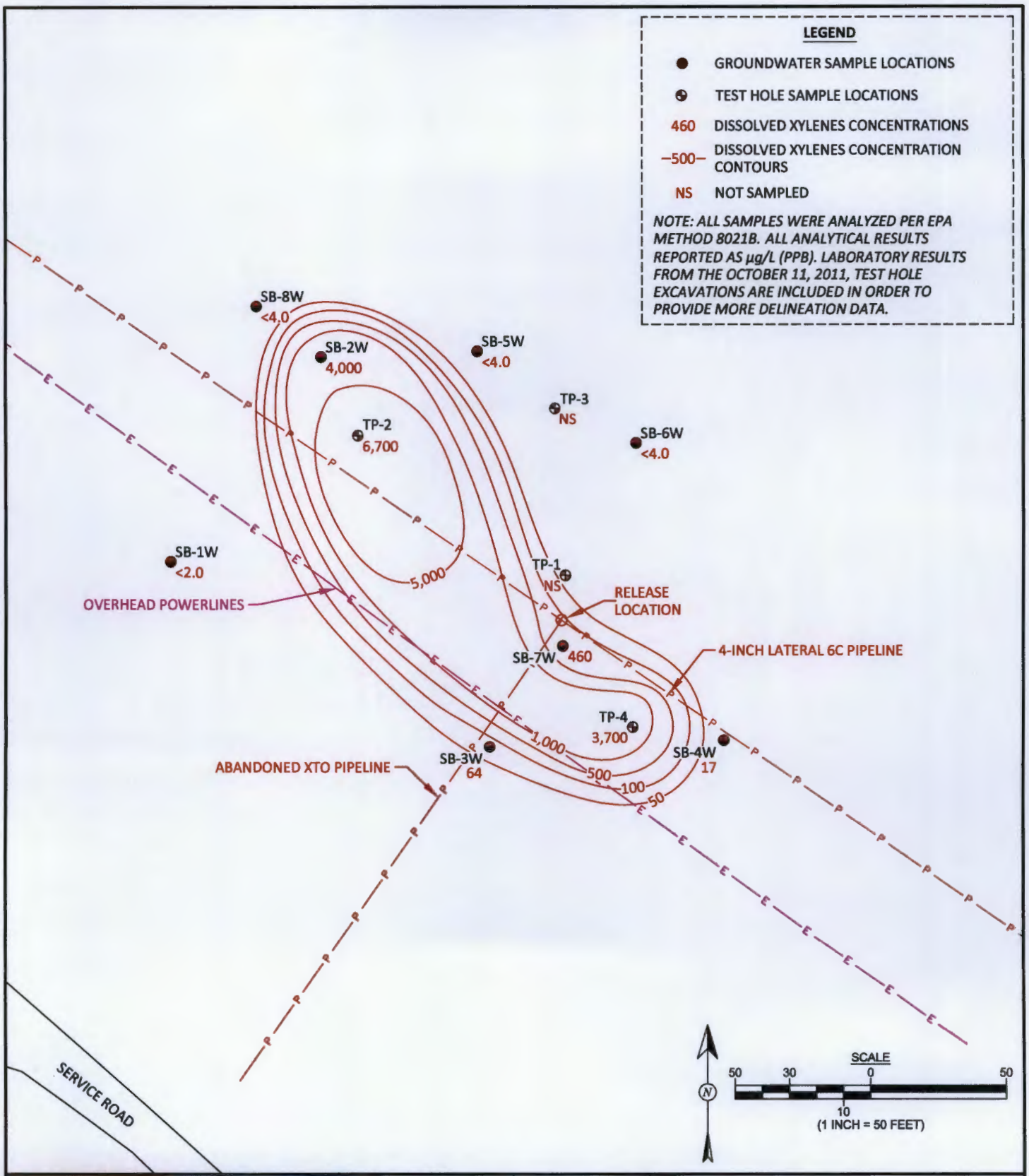


Animas Environmental Services, LLC

DRAWN BY: C. Lameman	**DATE DRAWN:** December 27, 2011	**FIGURE 5**
REVISIONS BY: C. Lameman	**DATE REVISED:** February 20, 2012	**DISSOLVED BENZENE CONTOUR CONCENTRATIONS, NOVEMBER 2011**
CHECKED BY: T. Ross	**DATE CHECKED:** February 20, 2012	ENTERPRISE PRODUCTS COMPANY LATERAL 6C PIPELINE RELEASE LOCATION SAN JUAN COUNTY, NEW MEXICO
APPROVED BY: E. McNally	**DATE APPROVED:** February 20, 2012	NE¼, SW¼, SEC. 26, T28N, R11W N36°37.921', W107°58.440



Animas Environmental Services, LLC	DRAWN BY: C. Lameman	DATE DRAWN: December 27, 2011	**FIGURE 6**
	REVISIONS BY: C. Lameman	DATE REVISED: February 20, 2012	**DISSOLVED TOLUENE CONTOUR CONCENTRATIONS, NOVEMBER 2011**
	CHECKED BY: T. Ross	DATE CHECKED: February 20, 2012	ENTERPRISE PRODUCTS COMPANY LATERAL 6C PIPELINE RELEASE LOCATION SAN JUAN COUNTY, NEW MEXICO
	APPROVED BY: E. McNally	DATE APPROVED: February 20, 2012	NE¼, SW¼, SEC. 26, T28N, R11W N36°37.921', W107°58.440



Animas Environmental Services, LLC	DRAWN BY: C. Lameman	DATE DRAWN: December 27, 2011	**FIGURE 7**
	REVISIONS BY: C. Lameman	DATE REVISED: February 20, 2012	**DISSOLVED XYLENES CONTOUR CONCENTRATIONS, NOVEMBER 2011**
	CHECKED BY: T. Ross	DATE CHECKED: February 20, 2012	ENTERPRISE PRODUCTS COMPANY LATERAL 6C PIPELINE RELEASE LOCATION SAN JUAN COUNTY, NEW MEXICO
	APPROVED BY: E. McNally	DATE APPROVED: February 20, 2012	NE¼, SW¼, SEC. 26, T28N, R11W N36°37.921', W107°58.440

TABLE 1
SUMMARY OF SOIL FIELD-SCREENING AND LABORATORY ANALYTICAL RESULTS
Enterprise Products Company Lateral 6C Pipeline September 2011 Release
San Juan County, New Mexico

Sample ID	*Date Sampled*	*Depth (ft)*	*VOCs OVM (ppm)*	*Benzene (mg/kg)*	*Toluene (mg/kg)*	*Ethyl-benzene (mg/kg)*	*Xylene (mg/kg)*	*BTEX (mg/kg)*	*GRO (C6-C10) (mg/kg)*	*DRO (C10-C22) (mg/kg)*	*TPH (mg/kg)*
NMOCD Action Level			***100***	***10***	***NE***	***NE***	***NE***	***50***	***NE***	***NE***	***100***
TP-1	11-Oct-11	10	**2,009**	6.2	84	7.8	71	**169**	1,400	29	**1,400**
TP-2	11-Oct-11	12	**438**	<0.047	<0.047	<0.047	<0.094	<0.235	<4.7	<9.8	<14.5
TP-2	11-Oct-11	15	**1,907**	**45**	200	8.3	260	**513**	5,000	170	**5,000**
TP-3	11-Oct-11	10	**239**	<0.048	<0.048	<0.048	<0.095	<0.239	<4.8	<10	<10
TP-4	11-Oct-11	12	9.4	<0.050	<0.050	<0.050	<0.10	<0.25	<5.0	<10	<20
TP-4	11-Oct-11	15	**1,875**	<0.048	<0.048	0.12	0.5	0.6	20	39	60
SB-1	30-Nov-11	14	0.0	<0.049	<0.049	<0.049	<0.098	<0.245	<4.9	<10	<10
SB-2	30-Nov-11	12	**442**	**31**	240	20	290	**580**	7300	230	**7,500**
SB-3	30-Nov-11	14	0.4	<0.048	<0.048	<0.048	<0.096	<0.240	<4.8	<10	<10
SB-4	30-Nov-11	14	0.5	<0.049	<0.049	<0.049	<0.097	<0.244	<4.9	<10	<10
SB-5	30-Nov-11	14	26.2	<0.047	<0.047	<0.047	<0.095	<0.236	<4.7	<9.6	<14.3
SB-6	30-Nov-11	13	0.0	<0.047	<0.047	<0.047	<0.093	<0.234	<4.7	<9.9	<14.6
SB-7	30-Nov-11	14	**1,982**	<0.24	0.61	<0.24	2.0	3.1	58	53	**111**
SB-8	30-Nov-11	14	36	<0.050	<0.050	<0.050	<0.099	<0.249	6.0	1200	**1,200**

NOTES NE = Not Established
NA = Not Analyzed

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Enterprise Products Company Lateral 6C Pipeline September 2011 Release
San Juan County, New Mexico

Well ID	*Date Sampled*	*Benzene (µg/L)*	*Toluene (µg/L)*	*Ethyl-Benzene (µg/L)*	*Total Xylenes (µg/L)*
Analytical Method		***8021***	***8021***	***8021***	***8021***
WQCC Standard		***10***	***750***	***750***	***620***
TP-2	11-Oct-11	**9,800**	**15,000**	540	**6,700**
TP-4	11-Oct-11	<50	100	580	**3,700**
SB-1W	30-Nov-11	<1.0	<1.0	<1.0	<2.0
SB-2W	30-Nov-11	**2,800**	**5,700**	280	**4,000**
SB-3W	30-Nov-11	**24**	100	**4.2**	64
SB-4W	30-Nov-11	<2.0	8.1	<2.0	17
SB-5W	30-Nov-11	<2.0	<2.0	410	<4.0
SB-6W	30-Nov-11	<2.0	<2.0	<2.0	<4.0
SB-7W	30-Nov-11	**370**	**810**	44	460
SB-8W	30-Nov-11	2.9	3.0	<2.0	<4.0

Notes: < - Analyte below laboratory detection limit
NA - Not Analyzed
NE - Not Established

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

SB-1

LATERAL 6C PIPELINE RELEASE
ENTERPRISE PRODUCTS COMPANY
SAN JUAN COUNTY, NEW MEXICO

Date Started	: 11/30/11	Latitude	: 36.632133°
Date Completed	: 11/30/11	Longitude	: -107.974467°
Hole Diameter	: 2.25 in.	Survey By	: GPS
Drilling Method	: Geoprobe	Logged By	: Tami Ross
Sampling Method	: Continuous		

Depth in Feet	Surf. Elev. 5588	USCS	GRAPHIC	DESCRIPTION	Blow Count	PID (ppm) 0,20,5
0	5588					
		SP		SILTY SAND, brown, fine to medium grained, dry		
2	5586					
4	5584					0.0
6	5582					
8	5580					0.0
		SP		SAND, brown, coarse, moist (groundwater encountered at 15 feet)		
10	5578					
12	5576					0.0
14	5574					
16	5572					
		SP		SAND, brown, coarse, wet		
18	5570					
20						

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

SB-2

LATERAL 6C PIPELINE RELEASE
ENTERPRISE PRODUCTS COMPANY
SAN JUAN COUNTY, NEW MEXICO

Date Started	: 11/30/11	Latitude	: 36.632267°
Date Completed	: 11/30/11	Longitude	: -107.974333°
Hole Diameter	: 2.25 in.	Survey By	: GPS
Drilling Method	: Geoprobe	Logged By	: Tami Ross
Sampling Method	: Continuous		

Depth in Feet	Surf. Elev. 5586	USCS	GRAPHIC	DESCRIPTION	Blow Count	PID (ppm) 0,20,5
0	5586					
2	5584	SP		SAND, brown, dry		812
4	5582					
6	5580	SP		SAND, brown, dry		3,009
8	5578					
10	5576	SP		SAND, brown, coarse, dry		442
12	5574					
14	5572	SP		SAND, gray, coarse, wet (groundwater encountered at 15 feet)		
16						

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

SB-3

LATERAL 6C PIPELINE RELEASE
ENTERPRISE PRODUCTS COMPANY
SAN JUAN COUNTY, NEW MEXICO

Date Started	: 11/30/11	Latitude	: 36.631867°
Date Completed	: 11/30/11	Longitude	: -107.974133°
Hole Diameter	: 2.25 in.	Survey By	: GPS
Drilling Method	: Geoprobe	Logged By	: Tami Ross
Sampling Method	: Continuous		

Depth in Feet	Surf. Elev. 5589	USCS	GRAPHIC	DESCRIPTION	Blow Count	PID (ppm) 0,20,5
0	5589					
		SP		SAND, brown, coarse, dry		
2	5587					
4	5585					1.5
6	5583					
8	5581					1.1
10	5579					
12	5577					0.4
		SP		SAND, brown, coarse, slightly moist		
14	5575					
16	5573					0.4
		SP		SAND, gray, coarse, wet (groundwater encountered at 15 feet)		
18	5571					
20						

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

SB-4

LATERAL 6C PIPELINE RELEASE
ENTERPRISE PRODUCTS COMPANY
SAN JUAN COUNTY, NEW MEXICO

Date Started	: 11/30/11	Latitude	: 36.63185°
Date Completed	: 11/30/11	Longitude	: -107.973783°
Hole Diameter	: 2.25 in.	Survey By	: GPS
Drilling Method	: Geoprobe	Logged By	: Tami Ross
Sampling Method	: Continuous		

Depth in Feet	Surf. Elev. 5588	USCS	GRAPHIC	DESCRIPTION	Blow Count	PID (ppm) 0,20,5
0	5588	SP		SAND, brown, dry		30.2
2	5586					
4	5584					
6	5582					
8	5580	SP		SAND, brown, coarse, moist		2.5
10	5578					
12	5576					0.0
14	5574					
16	5572	SP		SAND, gray, coarse, wet (groundwater encountered at 18 feet)		0.5
18	5570					
20						

▼

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

SB-5

LATERAL 6C PIPELINE RELEASE
ENTERPRISE PRODUCTS COMPANY
SAN JUAN COUNTY, NEW MEXICO

Date Started	: 11/30/11	Latitude	: 36.632317°
Date Completed	: 11/30/11	Longitude	: -107.974117°
Hole Diameter	: 2.25 in.	Survey By	: GPS
Drilling Method	: Geoprobe	Logged By	: Tami Ross
Sampling Method	: Continuous		

Depth in Feet	Surf. Elev. 5585	USCS	GRAPHIC	DESCRIPTION	Blow Count	PID (ppm) 0,20,5
0	5585					
2	5583			SAND, brown, loose, dry		
4	5581	SP				0.0
6	5579					
8	5577					14.6
10	5575	SP		SAND, brown, loose, moist		
12	5573					26.2
14	5571	SP		SAND, grey, coarse, wet (groundwater encountered at 13 feet)		
16						

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

SB-6

LATERAL 6C PIPELINE RELEASE
ENTERPRISE PRODUCTS COMPANY
SAN JUAN COUNTY, NEW MEXICO

Date Started	: 11/30/11	Latitude	: 36.632183°
Date Completed	: 11/30/11	Longitude	: -107.973883°
Hole Diameter	: 2.25 in.	Survey By	: GPS
Drilling Method	: Geoprobe	Logged By	: Tami Ross
Sampling Method	: Continuous		

Depth in Feet	Surf. Elev. 5585	USCS	GRAPHIC	DESCRIPTION	Blow Count	PID (ppm) 0,20,5
0	5585					
				SAND, brown, loose, dry		
2	5583					
4	5581	SP				0.0
6	5579					
8	5577					0.0
				SAND, brown, coarse, moist		
10	5575	SP				
12	5573					
				SAND, gray, coarse, wet (groundwater encountered at 15 feet)		
14	5571	SP				
16						

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

SB-7

LATERAL 6C PIPELINE RELEASE
ENTERPRISE PRODUCTS COMPANY
SAN JUAN COUNTY, NEW MEXICO

Date Started	: 11/30/11	Latitude	: 36.63205°
Date Completed	: 11/30/11	Longitude	: -107.973983°
Hole Diameter	: 2.25 in.	Survey By	: GPS
Drilling Method	: Geoprobe	Logged By	: Tami Ross
Sampling Method	: Continuous		

Depth in Feet	Surf. Elev. 5588	USCS	GRAPHIC	DESCRIPTION	Blow Count	PID (ppm) 0,20,5
0	5588			Backfill		
2	5586					
4	5584	SW				
6	5582					
8	5580			SAND, brown, coarse, moist		
10	5578	SP				1,982
12	5576			SAND, gray, black silt, coarse, moist		
14	5574	SP				
16	5572			SAND, gray, coarse/small rocks, wet (groundwater encountered at 17 feet)		
18	5570	SP				
20						

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

SB-8

LATERAL 6C PIPELINE RELEASE
ENTERPRISE PRODUCTS COMPANY
SAN JUAN COUNTY, NEW MEXICO

Date Started	: 11/30/11	Latitude	: 36.6323°
Date Completed	: 11/30/11	Longitude	: -107.97422°
Hole Diameter	: 2.25 in.	Survey By	: GPS
Drilling Method	: Geoprobe	Logged By	: Tami Ross
Sampling Method	: Continuous		

Depth in Feet	Surf. Elev. 5586	USCS	GRAPHIC	DESCRIPTION	Blow Count	PID (ppm) 0,20,5
0	5586	SP		SAND, brown, loose, dry		364
2	5584					
4	5582					
6	5580					
8	5578	SP		SAND, brown, loose, moist		134
10	5576					
12	5574	SP		SAND, dark gray, coarse, wet (groundwater encountered at 13 feet)		36
14	5572					
16	5570	SP		SAND, gray, coarse/small rocks, wet		
18	5568					
20						

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HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Monday, October 24, 2011

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

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

RE: Enterprise Products Co Lateral 6C

Order No.: 1110780

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory, Inc. received 8 sample(s) on 10/13/2011 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: *24-Oct-11*

Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	TP4 @ 12' BGS
Lab Order:	1110780	**Collection Date:**	10/11/2011 10:50:00 AM
Project:	Enterprise Products Co Lateral 6C	**Date Received:**	10/13/2011
Lab ID:	1110780-01	**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	10/21/2011 2:49:31 AM
Surr: DNOP	105	73.4-123		%REC	1	10/21/2011 2:49:31 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/18/2011 5:28:16 PM
Surr: BFB	96.0	75.2-136		%REC	1	10/18/2011 5:28:16 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.050		mg/Kg	1	10/18/2011 5:28:16 PM
Toluene	ND	0.050		mg/Kg	1	10/18/2011 5:28:16 PM
Ethylbenzene	ND	0.050		mg/Kg	1	10/18/2011 5:28:16 PM
Xylenes, Total	ND	0.10		mg/Kg	1	10/18/2011 5:28:16 PM
Surr: 4-Bromofluorobenzene	86.2	80-120		%REC	1	10/18/2011 5:28:16 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: *24-Oct-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	TP-2 @ 12' BGS
Lab Order:	1110780	**Collection Date:**	10/11/2011 11:10:00 AM
Project:	Enterprise Products Co Lateral 6C	**Date Received:**	10/13/2011
Lab ID:	1110780-02	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/21/2011 4:31:25 AM
Surr: DNOP	98.3	73.4-123		%REC	1	10/21/2011 4:31:25 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/19/2011 3:21:56 PM
Surr: BFB	92.4	75.2-136		%REC	1	10/19/2011 3:21:56 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.047		mg/Kg	1	10/19/2011 3:21:56 PM
Toluene	ND	0.047		mg/Kg	1	10/19/2011 3:21:56 PM
Ethylbenzene	ND	0.047		mg/Kg	1	10/19/2011 3:21:56 PM
Xylenes, Total	ND	0.094		mg/Kg	1	10/19/2011 3:21:56 PM
Surr: 4-Bromofluorobenzene	79.9	80-120	S	%REC	1	10/19/2011 3:21:56 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: *24-Oct-11*

Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	TP-3 @ 10' BGS
Lab Order:	1110780	**Collection Date:**	10/11/2011 11:30:00 AM
Project:	Enterprise Products Co Lateral 6C	**Date Received:**	10/13/2011
Lab ID:	1110780-03	**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	10/21/2011 5:40:47 AM
Surr: DNOP	99.7	73.4-123		%REC	1	10/21/2011 5:40:47 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/20/2011 1:53:14 PM
Surr: BFB	93.8	75.2-136		%REC	1	10/20/2011 1:53:14 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.048		mg/Kg	1	10/20/2011 1:53:14 PM
Toluene	ND	0.048		mg/Kg	1	10/20/2011 1:53:14 PM
Ethylbenzene	ND	0.048		mg/Kg	1	10/20/2011 1:53:14 PM
Xylenes, Total	ND	0.095		mg/Kg	1	10/20/2011 1:53:14 PM
Surr: 4-Bromofluorobenzene	79.0	80-120	S	%REC	1	10/20/2011 1:53:14 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: *24-Oct-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	TP-1 @ 10' BGS
Lab Order:	1110780	**Collection Date:**	10/11/2011 12:05:00 PM
Project:	Enterprise Products Co Lateral 6C	**Date Received:**	10/13/2011
Lab ID:	1110780-04	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	29	9.7		mg/Kg	1	10/21/2011 6:15:24 AM
Surr: DNOP	99.7	73.4-123		%REC	1	10/21/2011 6:15:24 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	1400	240		mg/Kg	50	10/18/2011 7:03:30 PM
Surr: BFB	112	75.2-136		%REC	50	10/18/2011 7:03:30 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	6.2	2.4		mg/Kg	50	10/18/2011 7:03:30 PM
Toluene	84	2.4		mg/Kg	50	10/18/2011 7:03:30 PM
Ethylbenzene	7.8	2.4		mg/Kg	50	10/18/2011 7:03:30 PM
Xylenes, Total	71	4.9		mg/Kg	50	10/18/2011 7:03:30 PM
Surr: 4-Bromofluorobenzene	91.4	80-120		%REC	50	10/18/2011 7:03:30 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: *24-Oct-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	TP-2 @ 15' BGS
Lab Order:	1110780	**Collection Date:**	10/11/2011 1:46:00 PM
Project:	Enterprise Products Co Lateral 6C	**Date Received:**	10/13/2011
Lab ID:	1110780-05	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	170	10		mg/Kg	1	10/21/2011 6:50:02 AM
Surr: DNOP	111	73.4-123		%REC	1	10/21/2011 6:50:02 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	5000	470		mg/Kg	100	10/18/2011 7:33:21 PM
Surr: BFB	129	75.2-136		%REC	100	10/18/2011 7:33:21 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	45	4.7		mg/Kg	100	10/18/2011 7:33:21 PM
Toluene	200	4.7		mg/Kg	100	10/18/2011 7:33:21 PM
Ethylbenzene	8.3	4.7		mg/Kg	100	10/18/2011 7:33:21 PM
Xylenes, Total	260	9.4		mg/Kg	100	10/18/2011 7:33:21 PM
Surr: 4-Bromofluorobenzene	95.8	80-120		%REC	100	10/18/2011 7:33:21 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: *24-Oct-11*

Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	TP-4 @ 15' BGS
Lab Order:	1110780	**Collection Date:**	10/11/2011 2:00:00 PM
Project:	Enterprise Products Co Lateral 6C	**Date Received:**	10/13/2011
Lab ID:	1110780-06	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	39	9.9		mg/Kg	1	10/21/2011 7:24:30 AM
Surr: DNOP	93.7	73.4-123		%REC	1	10/21/2011 7:24:30 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	20	4.8		mg/Kg	1	10/20/2011 2:23:09 PM
Surr: BFB	170	75.2-136	S	%REC	1	10/20/2011 2:23:09 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.048		mg/Kg	1	10/20/2011 2:23:09 PM
Toluene	ND	0.048		mg/Kg	1	10/20/2011 2:23:09 PM
Ethylbenzene	0.12	0.048		mg/Kg	1	10/20/2011 2:23:09 PM
Xylenes, Total	0.50	0.095		mg/Kg	1	10/20/2011 2:23:09 PM
Surr: 4-Bromofluorobenzene	84.3	80-120		%REC	1	10/20/2011 2:23:09 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: *24-Oct-11*

Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	TP-2 groundwater
Lab Order:	1110780	**Collection Date:**	10/11/2011 1:57:00 PM
Project:	Enterprise Products Co Lateral 6C	**Date Received:**	10/13/2011
Lab ID:	1110780-07	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	4.4	1.0		mg/L	1	10/21/2011 2:15:54 AM
Surr: DNOP	106	81.1-147		%REC	1	10/21/2011 2:15:54 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	77	2.5		mg/L	50	10/18/2011 11:34:56 PM
Surr: BFB	98.7	65.4-141		%REC	50	10/18/2011 11:34:56 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	9800	200		µg/L	200	10/19/2011 1:34:31 PM
Toluene	15000	200		µg/L	200	10/19/2011 1:34:31 PM
Ethylbenzene	540	200		µg/L	200	10/19/2011 1:34:31 PM
Xylenes, Total	6700	400		µg/L	200	10/19/2011 1:34:31 PM
Surr: 4-Bromofluorobenzene	93.9	76.5-115		%REC	200	10/19/2011 1:34:31 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: *24-Oct-11*

Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	TP-4 groundwater
Lab Order:	1110780	**Collection Date:**	10/11/2011 2:15:00 PM
Project:	Enterprise Products Co Lateral 6C	**Date Received:**	10/13/2011
Lab ID:	1110780-08	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	180	10		mg/L	10	10/21/2011 7:58:54 AM
Surr: DNOP	0	81.1-147	S	%REC	10	10/21/2011 7:58:54 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	22	2.5		mg/L	50	10/19/2011 12:32:29 AM
Surr: BFB	120	65.4-141		%REC	50	10/19/2011 12:32:29 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	50		µg/L	50	10/19/2011 12:32:29 AM
Toluene	100	50		µg/L	50	10/19/2011 12:32:29 AM
Ethylbenzene	580	50		µg/L	50	10/19/2011 12:32:29 AM
Xylenes, Total	3700	100		µg/L	50	10/19/2011 12:32:29 AM
Surr: 4-Bromofluorobenzene	103	76.5-115		%REC	50	10/19/2011 12:32:29 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

lient: Animas Environmental Services
roject: Enterprise Products Co Lateral 6C **Work Order:** 1110780

nalyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
ethod: EPA Method 8015B: Diesel Range Organics											
ample ID: 1110780-01AMSD		*MSD*				Batch ID: **28938**		Analysis Date:		10/21/2011 3:56:42 AM	
esel Range Organics (DRO)	43.97	mg/Kg	9.9	49.36	4.815	79.3	61.9	125	11.2	22.3	
ample ID: MB-28938		*MBLK*				Batch ID: **28938**		Analysis Date:		10/18/2011 2:26:23 PM	
esel Range Organics (DRO)	ND	mg/Kg	10								
ample ID: LCS-28938		*LCS*				Batch ID: **28938**		Analysis Date:		10/18/2011 2:51:17 PM	
esel Range Organics (DRO)	59.50	mg/Kg	10	50	0	119	66.7	119			
ample ID: 1110780-01AMS		*MS*				Batch ID: **28938**		Analysis Date:		10/21/2011 3:23:06 AM	
iesel Range Organics (DRO)	49.18	mg/Kg	10	50.05	4.815	88.6	61.9	125			
ethod: EPA Method 8015B: Diesel Range											
ample ID: MB-28936		*MBLK*				Batch ID: **28936**		Analysis Date:		10/21/2011 12:57:29 AM	
iesel Range Organics (DRO)	ND	mg/L	1.0								
ample ID: LCS-28936		*LCS*				Batch ID: **28936**		Analysis Date:		10/21/2011 1:26:01 AM	
iesel Range Organics (DRO)	2.617	mg/L	1.0	2.5	0	105	74	157			
ample ID: LCSD-28936		*LCSD*				Batch ID: **28936**		Analysis Date:		10/21/2011 1:55:14 AM	
iesel Range Organics (DRO)	2.165	mg/L	1.0	2.5	0	86.6	74	157	18.9	23	
lethod: EPA Method 8015B: Gasoline Range											
ample ID: 5ML-RB		*MBLK*				Batch ID: **R48488**		Analysis Date:		10/18/2011 9:51:53 AM	
iasoline Range Organics (GRO)	ND	mg/Kg	5.0								
ample ID: MB-28931		*MBLK*				Batch ID: **28931**		Analysis Date:		10/18/2011 2:28:30 PM	
iasoline Range Organics (GRO)	ND	mg/Kg	5.0								
ample ID: 5ML-RB		*MBLK*				Batch ID: **R48530**		Analysis Date:		10/19/2011 10:31:25 AM	
iasoline Range Organics (GRO)	ND	mg/Kg	5.0								
ample ID: 2.5 GRO LCS		*LCS*				Batch ID: **R48488**		Analysis Date:		10/18/2011 11:18:36 AM	
iasoline Range Organics (GRO)	26.72	mg/Kg	5.0	25	0	107	86.4	132			
ample ID: LCS-28931		*LCS*				Batch ID: **28931**		Analysis Date:		10/18/2011 1:28:21 PM	
iasoline Range Organics (GRO)	28.69	mg/Kg	5.0	25	0	115	86.4	132			
ample ID: 2.5 GRO LCS		*LCS*				Batch ID: **R48530**		Analysis Date:		10/19/2011 12:07:58 PM	
iasoline Range Organics (GRO)	26.42	mg/Kg	5.0	25	0	106	86.4	132			
lethod: EPA Method 8015B: Gasoline Range											
ample ID: 1110780-07A MSD		*MSD*				Batch ID: **R48488**		Analysis Date:		10/19/2011 1:58:48 AM	
iasoline Range Organics (GRO)	97.22	mg/L	2.5	25	77.01	80.8	66.1	127	7.47	15.5	
ample ID: 5ML-RB		*MBLK*				Batch ID: **R48488**		Analysis Date:		10/18/2011 9:51:53 AM	
iasoline Range Organics (GRO)	ND	mg/L	0.050								
ample ID: 2.5 GRO LCS		*LCS*				Batch ID: **R48488**		Analysis Date:		10/18/2011 11:18:36 AM	
iasoline Range Organics (GRO)	0.5344	mg/L	0.050	0.5	0	107	92.1	117			
ample ID: 1110780-07A MS		*MS*				Batch ID: **R48488**		Analysis Date:		10/19/2011 1:30:00 AM	
iasoline Range Organics (GRO)	104.8	mg/L	2.5	25	77.01	111	66.1	127			

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: Enterprise Products Co Lateral 6C **Work Order:** 1110780

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles											
Sample ID: 1110780-01AMSD		*MSD*				Batch ID: **28931**		Analysis Date:		10/19/2011 12:34:18 AM	
Benzene	0.9411	mg/Kg	0.050	0.990	0	95.1	67.2	113	0.842	14.3	
Toluene	0.8647	mg/Kg	0.050	0.990	0	87.3	62.1	116	1.92	15.9	
Ethylbenzene	0.9431	mg/Kg	0.050	0.990	0	95.3	67.9	127	0.748	14.4	
Xylenes, Total	2.840	mg/Kg	0.099	2.97	0	95.6	60.6	134	0.995	12.6	
Sample ID: 5ML-RB		*MBLK*				Batch ID: **R48488**		Analysis Date:		10/18/2011 9:51:53 AM	
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								
Sample ID: MB-28931		*MBLK*				Batch ID: **28931**		Analysis Date:		10/18/2011 2:28:30 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								
Sample ID: 100NG BTEX LCS		*LCS*				Batch ID: **R48488**		Analysis Date:		10/18/2011 6:46:44 PM	
Benzene	0.9228	mg/Kg	0.050	1	0.0139	90.9	83.3	107			
Toluene	0.9042	mg/Kg	0.050	1	0	90.4	74.3	115			
Ethylbenzene	0.9076	mg/Kg	0.050	1	0	90.8	80.9	122			
Xylenes, Total	2.712	mg/Kg	0.10	3	0	90.4	85.2	123			
Sample ID: LCS-28931		*LCS*				Batch ID: **28931**		Analysis Date:		10/18/2011 1:58:28 PM	
Benzene	0.9082	mg/Kg	0.050	1	0.0168	89.1	83.3	107			
Toluene	0.8359	mg/Kg	0.050	1	0	83.6	74.3	115			
Ethylbenzene	0.9127	mg/Kg	0.050	1	0	91.3	80.9	122			
Xylenes, Total	2.782	mg/Kg	0.10	3	0	92.7	85.2	123			
Sample ID: 1110780-01AMS		*MS*				Batch ID: **28931**		Analysis Date:		10/19/2011 12:04:31 AM	
Benzene	0.9332	mg/Kg	0.050	0.997	0	93.6	67.2	113			
Toluene	0.8815	mg/Kg	0.050	0.997	0	88.4	62.1	116			
Ethylbenzene	0.9501	mg/Kg	0.050	0.997	0	95.3	67.9	127			
Xylenes, Total	2.869	mg/Kg	0.10	2.991	0	95.9	60.6	134			

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

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: Enterprise Products Co Lateral 6C **Work Order:** 1110780

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles											
Sample ID: 1110780-08A MSD		*MSD*				Batch ID:	**R48488**	Analysis Date:		10/19/2011 2:56:20 AM	
Benzene	869.5	µg/L	50	1000	15.73	85.4	76.6	119	11.8	16.4	
Toluene	933.8	µg/L	50	1000	102.2	83.2	77.3	118	11.8	13.9	
Ethylbenzene	1365	µg/L	50	1000	579.7	78.5	76.6	114	8.57	13.5	
Xylenes, Total	5744	µg/L	100	3000	3718	67.5	82	113	9.53	12.9	S
Sample ID: 5ML-RB		*MBLK*				Batch ID:	**R48488**	Analysis Date:		10/18/2011 9:51:53 AM	
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	2.0								
Sample ID: 5ML-RB		*MBLK*				Batch ID:	**R48530**	Analysis Date:		10/19/2011 10:31:25 AM	
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	2.0								
Sample ID: 100NG BTEX LCS		*LCS*				Batch ID:	**R48488**	Analysis Date:		10/18/2011 6:46:44 PM	
Benzene	18.46	µg/L	1.0	20	0	92.3	80	120			
Toluene	18.08	µg/L	1.0	20	0	90.4	80	120			
Ethylbenzene	18.15	µg/L	1.0	20	0	90.8	80	120			
Xylenes, Total	54.25	µg/L	2.0	60	0	90.4	80	120			
Sample ID: 100NG BTEX LCS		*LCS*				Batch ID:	**R48530**	Analysis Date:		10/19/2011 11:33:34 PM	
Benzene	19.28	µg/L	1.0	20	0.2698	95.1	80	120			
Toluene	18.94	µg/L	1.0	20	0	94.7	80	120			
Ethylbenzene	18.98	µg/L	1.0	20	0	94.9	80	120			
Xylenes, Total	56.18	µg/L	2.0	60	0	93.6	80	120			
Sample ID: 1110780-08A MS		*MS*				Batch ID:	**R48488**	Analysis Date:		10/19/2011 2:27:35 AM	
Benzene	978.4	µg/L	50	1000	15.73	96.3	76.6	119			
Toluene	1051	µg/L	50	1000	102.2	94.9	77.3	118			
Ethylbenzene	1487	µg/L	50	1000	579.7	90.8	76.6	114			
Xylenes, Total	6320	µg/L	100	3000	3718	86.7	82	113			

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: 10/13/2011

Work Order Number 1110780 | Received by: AT

Checklist completed by: _____ 10/13/11 | Sample ID labels checked by: ID

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 ☐		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?	**1.6°**	*<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

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 6 C

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. 1110[illegible]	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)	GRO, DRO 8015				Air Bubbles (Y or N)
-12-11	1050	Soil	TP-4 @ 12' BGS	4oz glass / 1	4°C	-1	X											X				
	1110		TP-2 @ 12' BGS			-2	X											X				
	1130		TP-3 @ 10' BGS			-3	X											X				
	1205		TP-1 @ 10' BGS			-4	X											X				
	1346		TP-2 @ 15' BGS			-5	X											X				
	1400		TP-4 @ 15' BGS			-6	X											X				
	1357	H_2O	TP-2 groundwater	5 40ml VOA	4°C / HCl	-7	X											X				
	1415		TP-4 groundwater			-8	X											X				

Date	Time	Relinquished by	Received by	Date	Time
-12-11	1447	Ross Kennemer	Christine Wooten	10/12/11	1447
12/11	1332	Christine Walter	[signature]	10/13/11	1250
			[signature]	10/13/11	12:50pm

Remarks: Invoice 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 re

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Friday, January 06, 2012

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

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

RE: Lateral 6C

Order No.: 1112196

Dear Tami Ross:

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

This report is a revised report and it replaces the original report issued December 13, 2011

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

NM Lab # NM9425 NM0901
AZ license # AZ0682

Hall Environmental Analysis Laboratory, Inc.

Date: *06-Jan-12*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	SB-1
Lab Order:	1112196	**Collection Date:**	11/30/2011 11:47:00 AM
Project:	Lateral 6C	**Date Received:**	12/2/2011
Lab ID:	1112196-01	**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 1:31:16 PM
Surr: DNOP	89.2	77.4-131		%REC	1	12/8/2011 1:31:16 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/8/2011 1:39:48 PM
Surr: BFB	87.8	75.2-136		%REC	1	12/8/2011 1:39:48 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.049		mg/Kg	1	12/7/2011 8:30:26 PM
Toluene	ND	0.049		mg/Kg	1	12/7/2011 8:30:26 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/7/2011 8:30:26 PM
Xylenes, Total	ND	0.098		mg/Kg	1	12/7/2011 8:30:26 PM
Surr: 4-Bromofluorobenzene	102	80-120		%REC	1	12/7/2011 8:30:26 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

CLIENT:	Animas Environmental Services	**Client Sample ID:**	SB-2
Lab Order:	1112196	**Collection Date:**	11/30/2011 11:30:00 AM
Project:	Lateral 6C	**Date Received:**	12/2/2011
Lab ID:	1112196-02	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	230	10		mg/Kg	1	12/8/2011 2:05:41 PM
Surr: DNOP	100	77.4-131		%REC	1	12/8/2011 2:05:41 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	7300	97		mg/Kg	20	12/7/2011 9:00:41 PM
Surr: BFB	273	75.2-136	S	%REC	20	12/7/2011 9:00:41 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	31	4.8		mg/Kg	100	12/8/2011 2:10:03 PM
Toluene	240	4.8		mg/Kg	100	12/8/2011 2:10:03 PM
Ethylbenzene	20	0.97		mg/Kg	20	12/7/2011 9:00:41 PM
Xylenes, Total	290	9.7		mg/Kg	100	12/8/2011 2:10:03 PM
Surr: 4-Bromofluorobenzene	116	80-120		%REC	20	12/7/2011 9:00:41 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

CLIENT:	Animas Environmental Services	**Client Sample ID:**	SB-3
Lab Order:	1112196	**Collection Date:**	11/30/2011 11:55:00 AM
Project:	Lateral 6C	**Date Received:**	12/2/2011
Lab ID:	1112196-03	**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 2:40:06 PM
Surr: DNOP	91.2	77.4-131		%REC	1	12/8/2011 2:40:06 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/8/2011 3:10:26 PM
Surr: BFB	77.6	75.2-136		%REC	1	12/8/2011 3:10:26 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.048		mg/Kg	1	12/8/2011 3:10:26 PM
Toluene	ND	0.048		mg/Kg	1	12/8/2011 3:10:26 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/8/2011 3:10:26 PM
Xylenes, Total	ND	0.096		mg/Kg	1	12/8/2011 3:10:26 PM
Surr: 4-Bromofluorobenzene	74.2	80-120	S	%REC	1	12/8/2011 3:10:26 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.

Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	SB-4
Lab Order:	1112196	**Collection Date:**	11/30/2011 12:30:00 PM
Project:	Lateral 6C	**Date Received:**	12/2/2011
Lab ID:	1112196-04	**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	12/8/2011 5:56:29 PM
Surr: DNOP	95.8	77.4-131		%REC	1	12/8/2011 5:56:29 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/8/2011 2:02:48 AM
Surr: BFB	93.9	75.2-136		%REC	1	12/8/2011 2:02:48 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.049		mg/Kg	1	12/8/2011 2:02:48 AM
Toluene	ND	0.049		mg/Kg	1	12/8/2011 2:02:48 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/8/2011 2:02:48 AM
Xylenes, Total	ND	0.097		mg/Kg	1	12/8/2011 2:02:48 AM
Surr: 4-Bromofluorobenzene	95.6	80-120		%REC	1	12/8/2011 2:02:48 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: *06-Jan-12*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	SB-5
Lab Order:	1112196	**Collection Date:**	11/30/2011 12:53:00 PM
Project:	Lateral 6C	**Date Received:**	12/2/2011
Lab ID:	1112196-05	**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	12/9/2011 8:34:03 AM
Surr: DNOP	95.9	77.4-131		%REC	1	12/9/2011 8:34:03 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/8/2011 2:32:54 AM
Surr: BFB	79.4	75.2-136		%REC	1	12/8/2011 2:32:54 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.047		mg/Kg	1	12/8/2011 2:32:54 AM
Toluene	ND	0.047		mg/Kg	1	12/8/2011 2:32:54 AM
Ethylbenzene	ND	0.047		mg/Kg	1	12/8/2011 2:32:54 AM
Xylenes, Total	ND	0.095		mg/Kg	1	12/8/2011 2:32:54 AM
Surr: 4-Bromofluorobenzene	79.7	80-120	S	%REC	1	12/8/2011 2:32:54 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

CLIENT:	Animas Environmental Services	**Client Sample ID:**	SB-6
Lab Order:	1112196	**Collection Date:**	11/30/2011 1:16:00 PM
Project:	Lateral 6C	**Date Received:**	12/2/2011
Lab ID:	1112196-06	**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 7:04:28 PM
Surr: DNOP	99.4	77.4-131		%REC	1	12/8/2011 7:04:28 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/8/2011 3:02:56 AM
Surr: BFB	91.5	75.2-136		%REC	1	12/8/2011 3:02:56 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.047		mg/Kg	1	12/8/2011 3:02:56 AM
Toluene	ND	0.047		mg/Kg	1	12/8/2011 3:02:56 AM
Ethylbenzene	ND	0.047		mg/Kg	1	12/8/2011 3:02:56 AM
Xylenes, Total	ND	0.093		mg/Kg	1	12/8/2011 3:02:56 AM
Surr: 4-Bromofluorobenzene	93.4	80-120		%REC	1	12/8/2011 3:02:56 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: *06-Jan-12*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	SB-7
Lab Order:	1112196	**Collection Date:**	11/30/2011 1:46:00 PM
Project:	Lateral 6C	**Date Received:**	12/2/2011
Lab ID:	1112196-07	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	53	10		mg/Kg	1	12/8/2011 7:37:32 PM
Surr: DNOP	99.5	77.4-131		%REC	1	12/8/2011 7:37:32 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	58	24		mg/Kg	5	12/8/2011 3:32:58 AM
Surr: BFB	99.0	75.2-136		%REC	5	12/8/2011 3:32:58 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.24		mg/Kg	5	12/8/2011 3:32:58 AM
Toluene	0.61	0.24		mg/Kg	5	12/8/2011 3:32:58 AM
Ethylbenzene	ND	0.24		mg/Kg	5	12/8/2011 3:32:58 AM
Xylenes, Total	2.0	0.47		mg/Kg	5	12/8/2011 3:32:58 AM
Surr: 4-Bromofluorobenzene	90.0	80-120		%REC	5	12/8/2011 3:32:58 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: *06-Jan-12*

Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	SB-8
Lab Order:	1112196	**Collection Date:**	11/30/2011 2:10:00 PM
Project:	Lateral 6C	**Date Received:**	12/2/2011
Lab ID:	1112196-08	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	1200	100		mg/Kg	10	12/9/2011 1:08:00 PM
Surr: DNOP	0	77.4-131	S	%REC	10	12/9/2011 1:08:00 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	6.0	5.0		mg/Kg	1	12/8/2011 4:03:08 AM
Surr: BFB	95.8	75.2-136		%REC	1	12/8/2011 4:03:08 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.050		mg/Kg	1	12/8/2011 4:03:08 AM
Toluene	ND	0.050		mg/Kg	1	12/8/2011 4:03:08 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/8/2011 4:03:08 AM
Xylenes, Total	ND	0.099		mg/Kg	1	12/8/2011 4:03:08 AM
Surr: 4-Bromofluorobenzene	96.1	80-120		%REC	1	12/8/2011 4:03:08 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

CLIENT:	Animas Environmental Services	**Client Sample ID:**	SB-1W
Lab Order:	1112196	**Collection Date:**	11/30/2011 11:13:00 AM
Project:	Lateral 6C	**Date Received:**	12/2/2011
Lab ID:	1112196-09	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	1.0		µg/L	1	12/10/2011 1:37:37 AM
Toluene	ND	1.0		µg/L	1	12/10/2011 1:37:37 AM
Ethylbenzene	ND	1.0		µg/L	1	12/10/2011 1:37:37 AM
Xylenes, Total	ND	2.0		µg/L	1	12/10/2011 1:37:37 AM
Surr: 4-Bromofluorobenzene	96.9	76.5-115		%REC	1	12/10/2011 1:37:37 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

CLIENT:	Animas Environmental Services	**Client Sample ID:**	SB-2W
Lab Order:	1112196	**Collection Date:**	11/30/2011 11:30:00 AM
Project:	Lateral 6C	**Date Received:**	12/2/2011
Lab ID:	1112196-10	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	2800	100		µg/L	100	12/12/2011 1:49:19 PM
Toluene	5700	100		µg/L	100	12/12/2011 1:49:19 PM
Ethylbenzene	280	100		µg/L	100	12/12/2011 1:49:19 PM
Xylenes, Total	4000	200		µg/L	100	12/12/2011 1:49:19 PM
Surr: 4-Bromofluorobenzene	101	76.5-115		%REC	100	12/12/2011 1:49:19 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

CLIENT:	Animas Environmental Services	**Client Sample ID:**	SB-3W
Lab Order:	1112196	**Collection Date:**	11/30/2011 12:06:00 PM
Project:	Lateral 6C	**Date Received:**	12/2/2011
Lab ID:	1112196-11	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	24	2.0		µg/L	2	12/10/2011 3:03:50 AM
Toluene	100	2.0		µg/L	2	12/10/2011 3:03:50 AM
Ethylbenzene	4.2	2.0		µg/L	2	12/10/2011 3:03:50 AM
Xylenes, Total	64	4.0		µg/L	2	12/10/2011 3:03:50 AM
Surr: 4-Bromofluorobenzene	99.8	76.5-115		%REC	2	12/10/2011 3:03:50 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: *06-Jan-12*

Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	SB-4W
Lab Order:	1112196	**Collection Date:**	11/30/2011 12:33:00 PM
Project:	Lateral 6C	**Date Received:**	12/2/2011
Lab ID:	1112196-12	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	2.0		µg/L	2	12/10/2011 3:32:39 AM
Toluene	8.1	2.0		µg/L	2	12/10/2011 3:32:39 AM
Ethylbenzene	ND	2.0		µg/L	2	12/10/2011 3:32:39 AM
Xylenes, Total	17	4.0		µg/L	2	12/10/2011 3:32:39 AM
Surr: 4-Bromofluorobenzene	98.9	76.5-115		%REC	2	12/10/2011 3:32:39 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: Lateral 6C
Work Order: 1112196

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8015B: Diesel Range Organics											
Sample ID: MB-29631		*MBLK*				Batch ID:	**29631**	Analysis Date:	12/8/2011 5:00:34 AM		
Diesel Range Organics (DRO)	ND	mg/Kg	10								
Sample ID: LCS-29631		*LCS*				Batch ID:	**29631**	Analysis Date:	12/8/2011 5:34:30 AM		
Diesel Range Organics (DRO)	45.46	mg/Kg	10	50	0	90.9	62.7	139			
Method: EPA Method 8015B: Gasoline Range											
Sample ID: MB-29625		*MBLK*				Batch ID:	**29625**	Analysis Date:	12/7/2011 1:09:55 PM		
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0								
Sample ID: LCS-29625		*LCS*				Batch ID:	**29625**	Analysis Date:	12/7/2011 12:09:17 PM		
Gasoline Range Organics (GRO)	32.65	mg/Kg	5.0	25	0	131	86.4	132			
Method: EPA Method 8021B: Volatiles											
Sample ID: MB-29625		*MBLK*				Batch ID:	**29625**	Analysis Date:	12/7/2011 1:09:55 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								
Sample ID: LCS-29625		*LCS*				Batch ID:	**29625**	Analysis Date:	12/7/2011 12:39:38 PM		
Benzene	1.061	mg/Kg	0.050	1	0.0038	106	80	120			
Toluene	1.051	mg/Kg	0.050	1	0.0059	105	80	120			
Ethylbenzene	1.119	mg/Kg	0.050	1	0.009	111	80	120			
Xylenes, Total	3.444	mg/Kg	0.10	3	0.0208	114	80	120			
Method: EPA Method 8021B: Volatiles											
Sample ID: 5ML-RB		*MBLK*				Batch ID:	**R49509**	Analysis Date:	12/9/2011 12:24:41 PM		
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	2.0								
Sample ID: 5ML-RB		*MBLK*				Batch ID:	**R49562**	Analysis Date:	12/12/2011 1:19:48 PM		
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	2.0								
Sample ID: 100NG BTEX LCS		*LCS*				Batch ID:	**R49509**	Analysis Date:	12/9/2011 11:55:49 AM		
Benzene	21.07	µg/L	1.0	20	0	105	80	120			
Toluene	21.25	µg/L	1.0	20	0	106	80	120			
Ethylbenzene	20.96	µg/L	1.0	20	0	105	80	120			
Xylenes, Total	63.29	µg/L	2.0	60	0	105	80	120			
Sample ID: 100NG BTEX LCS		*LCS*				Batch ID:	**R49562**	Analysis Date:	12/12/2011 11:41:13 AM		
Benzene	22.77	µg/L	1.0	20	0	114	80	120			
Toluene	22.80	µg/L	1.0	20	0.522	111	80	120			
Ethylbenzene	22.65	µg/L	1.0	20	0.4448	111	80	120			
Xylenes, Total	68.79	µg/L	2.0	60	0	115	78.6	121			

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 **1112196** 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 ☐			
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?	1.3°	<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: 1112196-12A pH >2 pH 12/12/11
-10A vial 2 of 4 ran on 12/12/11 pH 2 pH 12/13/11

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#: tross@animasenvironmental.com

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

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush _____

Project Name:
Lateral 6C

Project #:

Project Manager:
Tami Ross

Sampler: Tami Ross

On Ice: [illegible]

Sample Temperature: [illegible]

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)	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)
11/30/11	1147	soil	SB-1	4oz		1	✓		✓									
11/30/11	1130	soil	SB-2	4oz		2	✓		✓									
11/30/11	1155	soil	SB-3	4oz		3	✓		✓									
11/30/11	1230	soil	SB-4	4oz		4	✓		✓									
11/30/11	1253	soil	SB-5	4oz		5	✓		✓									
11/30/11	1316	soil	SB-6	4oz		6	✓		✓									
11/30/11	1346	soil	SB-7	4oz		7	✓		✓									
11/30/11	1410	soil	SB-8	4oz		8	✓		✓									
11/30/11	1113	water	SB-1W	4 VOA	HCl	9	✓											
11/30/11	1130	water	SB-2W	4 VOA	HCl	10	✓											
11/30/11	1200	water	SB-3W	4 VOA	HCl	11	✓											
11/30/11	1233	water	SB-4W	4 VOA	HCl	12	✓											

Date:	Time:	Relinquished by:	Received by:	Date	Time
11/30/11	1600	Tami Ross	Christine Walters	12/1/11	1535
12/1/11	1615	Christine Walters	Michelle Garcia	12/2/11	9:30

Remarks: Bill to Enterprise Products Company

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