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> Groundwater Investigation Report Enterprise Products Company 2D-1LP (Olmer #4) Pipeline Release August 2011 SW% NE% Section 26, T28N, R10W San Juan County, New Mexico

March 12, 2012

Prepared on behalf of: Enterprise Products Company 614 Reilly Avenue Farmington, NM 87401

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 Groundwater Investigation Report for the 2D-1LP (Olmer #4) pipeline release, which was discovered in August 2011.

1.1 Site Location

The pipeline release occurred on Federal land under jurisdiction of the Bureau of Land Management (BLM), within the SW¼ NE¼, Section 26, T28N, R10W, San Juan County, New Mexico. Latitude and longitude of the release were recorded as N36°38.033 and W107°51.832, respectively.

The elevation of the release area is approximately 5,480 feet above mean sea level (amsl) and is located within the Armenta Wash floodplain. Surface runoff drains north to an unnamed arroyo which discharges into the Armenta Wash. A topographic site location map is included as Figure 1, and an aerial map with the release location is included as Figure 2.

1.2 Release Information and Response

A release was reported at the location on August 2, 2011, by Shane Cooley of Enterprise. AES was subsequently contacted by Aaron Dailey of Enterprise on August 3, 2011, and on August 8, 2011, Tami Ross of AES met with Enterprise representatives at the release location. The cause of the release was attributed to a corrosion hole in the pipeline.

1.3 NMOCD Ranking

Based upon New Mexico Oil Conservation Division (NMOCD) ranking criteria, the site location is within a floodplain associated with Armenta Wash, and depth to groundwater is approximately 8 feet below ground surface (bgs). Based upon a review of the New Mexico Office of State Engineer (NMOSE) database, no registered water wells were located in the area. Based upon this information, the site was assigned a NMOCD ranking score of 40.

2.0 Release Investigation

2.1 Initial Assessment

AES was initially contacted by Aaron Dailey of Enterprise on August 3, 2011, and on August 8, 2011, Tami Ross of AES met with Enterprise representatives at the release location. Initial excavation activities were conducted on August 8, 2011, and representatives from Enterprise, AES and Southwest Field Services were present.

During initial excavation, soil samples were collected from the base and mid-walls of the excavation, which measured approximately 20 ft by 20 ft by 8 ft deep. Benzene, toluene,

ethylbenzene, and total xylenes (BTEX) and total petroleum hydrocarbons (TPH) concentrations for all three soil samples collected were either below laboratory detection limits or below applicable New Mexico Oil Conservation Division (NMOCD) action levels. Of the volume of soil excavated, approximately 12 cubic yards were transported by Southwest Field Services for disposal at Envirotech Landfarm, near Bloomfield, New Mexico. The remaining soils (overburden) were field screened and determined not to have been impacted by the release. These soils were stockpiled for use as backfill.

A grab sample from shallow groundwater was also collected from near the base of the excavation for laboratory analysis. Dissolved phase benzene, toluene, and total xylene concentrations were reported above the New Mexico Water Quality Control Commission (WQCC) standards for groundwater. Ethylbenzene was reported at 280 μ g/L, which is below the WQCC standard of 750 μ g/L.

On August 22, 2011, Tami Ross and Ross Kennemer of AES met with Aaron Dailey of Enterprise at the release location. Two test holes were excavated within the pipeline right-of-way (ROW) and were located approximately 30 feet from the release area of the pipeline. The first test hole was excavated north of the release area, and one soil and one groundwater sample were collected. The second test hole was excavated east of the release area, and one soil and one groundwater sample were also collected. BTEX and TPH concentrations for the two soil samples were below laboratory detection limits. Dissolved phase benzene concentrations were reported above the WQCC standard for groundwater in the north test hole with 240 μ g/L.

A vacuum truck was used to pump out the groundwater from the excavation that was originally dug on August 8, 2011. Fresh groundwater had been allowed to infiltrate into the excavation, and a groundwater sample was collected. The sample was not submitted for laboratory analysis since strong hydrocarbon odors were detected. Based on this observation, AES and Enterprise personnel discussed continued excavation options at the site.

On August 23, 2011, Enterprise personnel, Tami Ross of AES, and IMI personnel returned to the site. A track hoe was used to extend and deepen the excavation to approximately 4 feet below the pipeline, for a total depth of 12 feet below ground surface (bgs). The excavation was extended horizontally to the west about 10 feet, resulting in an excavation area approximately 30 feet by 20 feet. Approximately 48 cubic yards of soil were stockpiled for disposal at a NMOCD approved landfarm facility.

Prior to backfilling the excavation, one groundwater sample was collected from the excavation for laboratory analysis. Dissolved phase benzene concentrations were reported above the WQCC standard with 31 μ g/L. No soil samples were collected during the August

23, 2011, excavation activities since the soil samples collected from the excavation on August 8, 2011, were below NMOCD action levels.

3.0 Groundwater Investigation – November and December 2011

On November 29, 2011, a groundwater investigation was conducted by AES in order to delineate the full extent of petroleum hydrocarbon impact on groundwater resulting from the release. The investigation included the installation of four soil borings (SB-1 through SB-4), which were completed as groundwater monitor wells (MW-1 through MW-4). The monitor wells were developed on December 16, 2011, and groundwater samples were collected on December 29, 2011. Soil and groundwater samples were collected 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.

3.1 Permits and Access Agreements

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

3.2 Utilities Notification

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

3.3 Notification

AES notified Aaron Daily and Shane Cooley of Enterprise by telephone 48 hours prior to field activities.

3.4 Health and Safety Plan

Prior to the start of the investigation, AES prepared and implemented a comprehensive site-specific Job Safety Analysis (JSA) addressing the site investigation 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. A tailgate meeting was held and documented during field activities, and addressed site-specific health and safety concerns or issues.

3.5 Installation and Sampling of Soil Borings

On November 29, 2011, AES installed four soil borings (SB-1 through SB-4) within and adjacent to the August 2011 excavation area in order to define the lateral and vertical extent of near surface and subsurface soil contamination. The soil borings were each advanced to a total depth of 15 feet bgs. The locations of soil borings are presented on Figures 2 and 3.

3.5.1 Drilling Methods

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

3.5.2 Soil Sample Collection

Soil samples were collected from continuously driven core-barrel samplers during advancement of the soil borings. At 4-ft intervals, a soil sample was collected from the core barrel sampler and transferred to appropriately labeled sample containers. The sample was split for field screening of volatile organic compounds (VOCs) with a photo-ionization detector (PID) organic vapor meter (OVM) and laboratory analysis. The soil samples collected for laboratory analysis were collected from the capillary fringe.

For each soil 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.

3.5.3 Field Screening

Samples were collected at 4 foot intervals from each soil sampling location and field screened for volatile organic vapors utilizing a PID-OVM, which was calibrated to 100 parts per million (ppm) with isobutylene gas.

Once collected, the soil samples to be field screened were immediately placed in 1 quart glass mason 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 one minute to promote vapor development and disaggregate the sample. Volatile gases 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.

3.5.4 Laboratory Analyses - Soil

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

- BTEX USEPA Method 8021
- TPH Gasoline Range Organics (GRO) and Diesel Range Organics (DRO)— EPA Method 8015 Modified

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

3.6 Groundwater Monitor Well Installation

3.6.1 Groundwater Monitor Well Installation and Construction

A total of four monitor wells (MW-1 through MW-4) were installed at the site. Monitor wells were positioned around the excavation area in order to define any horizontal extent of contaminants in groundwater. Monitor well construction consisted of 2-inch outside diameter (OD) Schedule 40 PVC screen and blank riser casing. The screened interval extended approximately 10 feet across the water table. The screen was packed with 10/20 Colorado silica sand. A bentonite seal was placed above the sand pack, and concrete grout with approximately 5 percent bentonite was poured from the top of the bentonite plug to approximately 0.5 feet of ground surface. An above grade locking steel protective casing, enclosed with a shroud of concrete, was installed on the well to prevent unauthorized access and damage. Monitor well construction diagrams for MW-1 through MW-4 are included on the soil boring logs in Appendix A.

3.6.2 Groundwater Monitor Well Development

Following monitor well installation and completion, each well was developed in order to remove fine-grained sediments from the sand pack and to increase hydraulic conductivity through the well screen. Each well was developed by a combination of surging and pumping techniques. Groundwater purged from the wells was contained in labeled and sealed plastic water tank. Approximately 50 gallons of development water were disposed of at Envirotech's NMOCD permitted landfarm. Monitor wells were developed in strict accordance with AES SOPs. Details of monitor well development, including purged water volume, are included on a Groundwater Monitor Well Development Form, which is presented in Appendix B.

3.6.3 Monitor Well Survey

The location and elevation of the top of each well casing was surveyed to the nearest 0.01 foot with reference to mean sea level by Arrow Engineering, a New Mexico Licensed Professional Surveyor. Each well was tied to an existing USGS benchmark.

3.7 Groundwater Sample Collection

3.7.1 Groundwater Sample Collection

On December 29, 2011, a total of four groundwater samples were collected from the groundwater monitor wells (MW-1 through MW-4). Prior to purging each groundwater monitor well, depth to groundwater was measured with a water level indicator. The water

level indicator was decontaminated prior to measuring the depth to groundwater in each well. Depth to groundwater for each well was recorded on the field groundwater sampling forms.

After measuring depth to groundwater in each monitoring well, each well was purged using a disposable bailer. Three well volumes were purged from each well, and water quality parameters (pH, temperature, electric cal conductivity, dissolved oxygen and oxygen reduction potential) were recorded on the field groundwater sampling forms. After the three well volumes were purged, a groundwater sample was collected using the same disposable bailer that was used to purge the well.

3.7.2 Laboratory Analyses - Groundwater

All groundwater analytical samples were analyzed for the following parameters:

- BTEX USEPA Method 8021
- TPH (DRO/GRO) USEPA Method 8015B Modified

3.7.3 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 personnel in insulated coolers containing ice at less than 6°C via bus to the laboratory.

4.0 Field and Laboratory Soil and Groundwater Results – November and December 2011

4.1 Soil

Field screening VOC vapor readings (via OVM) ranged from non-detectable in SB-1, SB-2 and SB-4 up to 59.4 ppm in SB-3. Soil analytical results showed that soil samples from the capillary fringe in SB-1 through SB-4 were below NMOCD action levels or below laboratory detection limits for benzene, BTEX, and TPH. The field screening and analytical results have been tabulated and are presented in Table 1 and on Figure 3. Soil analytical laboratory reports are presented in Appendix C.

4.2 Groundwater

Depth of groundwater ranged from 7.94 feet below top of casing (TOC) in MW-3 down to 11.51 feet TOC in MW-3. Based on depth to groundwater measurements, the gradient is 0.0006 ft/ft in a northeastern direction. Groundwater elevation contours for December 2011 are included as Figure 4.

Groundwater pH ranged from 6.42 in MW-4 up to 7.14 in MW-1. Dissolved oxygen readings ranged from 1.28 mg/L in MW-2 up to 3.19 mg/L in MW-4, and conductivity readings were between 4.53 mS and 8.44 mS.

Dissolved phase analytical results show reported concentrations for benzene, toluene, and xylenes were below laboratory detection limits in MW-1, MW-2, and MW-4. The highest ethylbenzene concentration was reported at 2.4 μ g/L in MW-3 and is well below the applicable WQCC standard of 750 μ g/L. TPH as GRO and DRO in MW-1 through MW-4 were below laboratory detection limits. The analytical results for groundwater samples have been tabulated and are presented in Table 3 and on Figure 5. Groundwater analytical laboratory reports are presented in Appendix C.

5.0 Conclusion and Recommendations

A total of four soil borings (SB-1 through SB-4) were installed by AES in November 2011 and subsequently completed as monitor wells MW-1 through MW-4. Soil analytical results confirm that soil samples collected from SB-1 through SB-4 were below NMOCD action levels or below laboratory detection limits for benzene, total BTEX, and TPH.

Analytical results for samples collected from MW-1 through MW-4 in December 2011 show that concentrations for BTEX were below applicable WQCC standards and for TPH were below laboratory detection limits.

Based upon the results of the groundwater investigation associated with the Olmer #4 Pipeline release, groundwater has not been impacted within the source area above applicable WQCC standards. AES recommends at least three additional quarterly groundwater monitoring and sampling events to confirm contaminant concentrations remain below WQCC standards.

6.0 Certification

I, the undersigned, am personally familiar with the information submitted in this Groundwater Investigation Report, prepared on behalf of Enterprise Products Company, Inc. for the November and December 2011 site investigation activities associated with the August 2011 2D-1LP (Olmer #4) pipeline release in San Juan County, New Mexico. I attest that it is true and complete to the best of my knowledge.

Tami C. Ross, CHMM Project Manager

Jami Ross

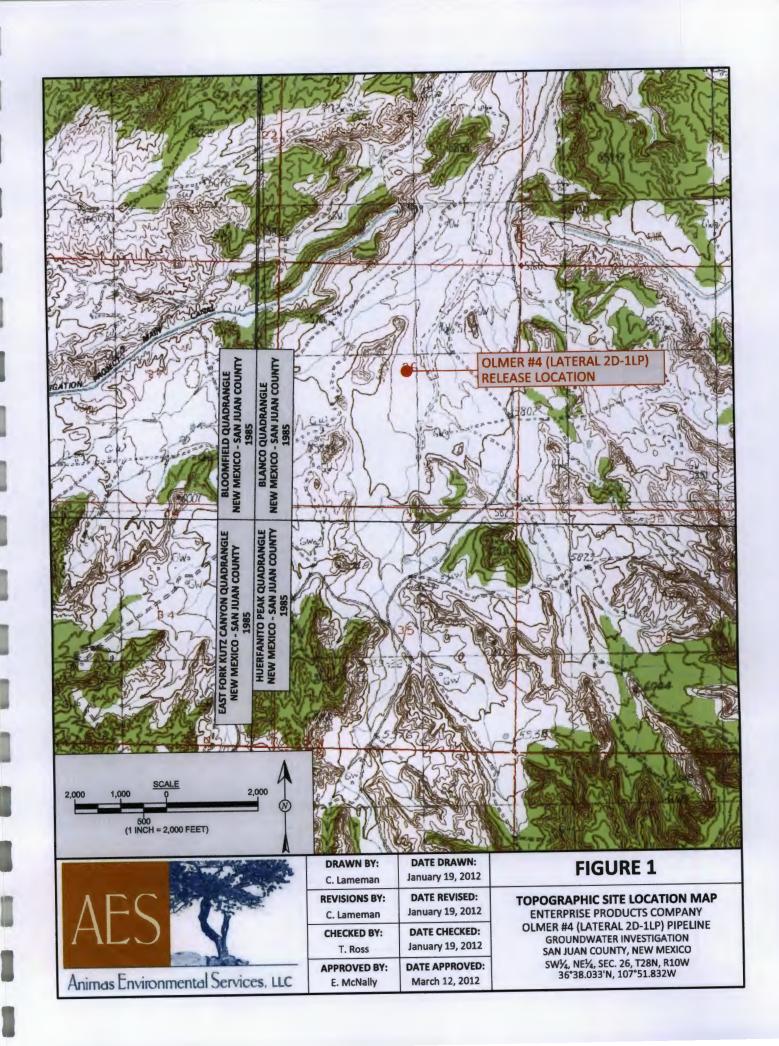
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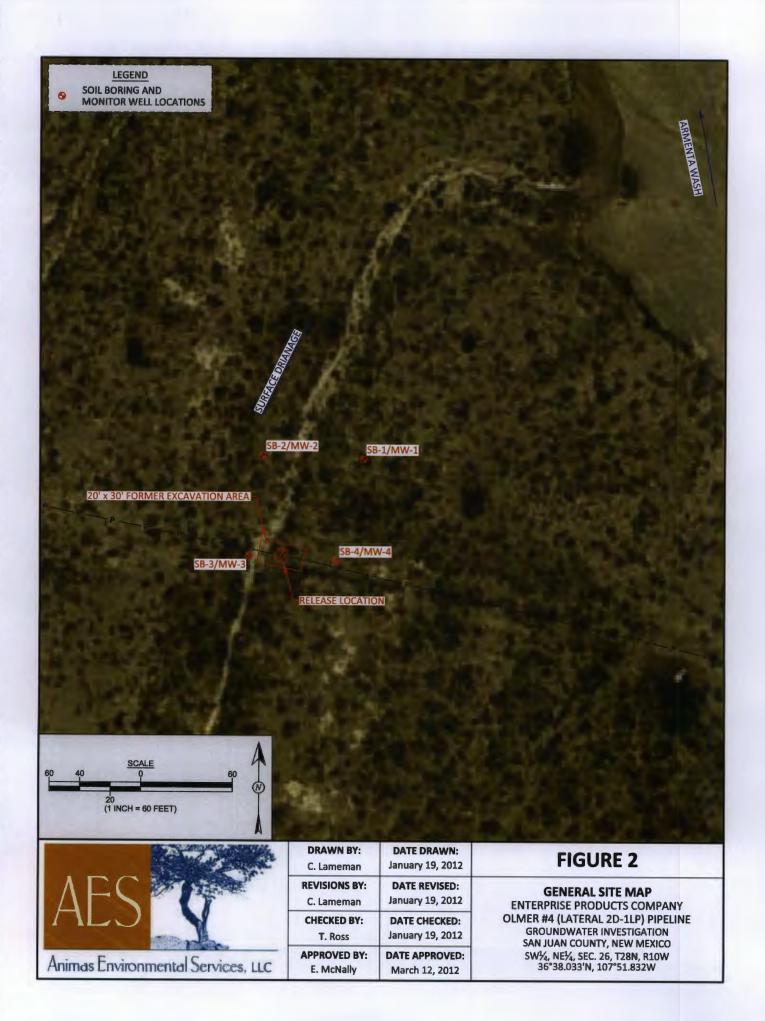
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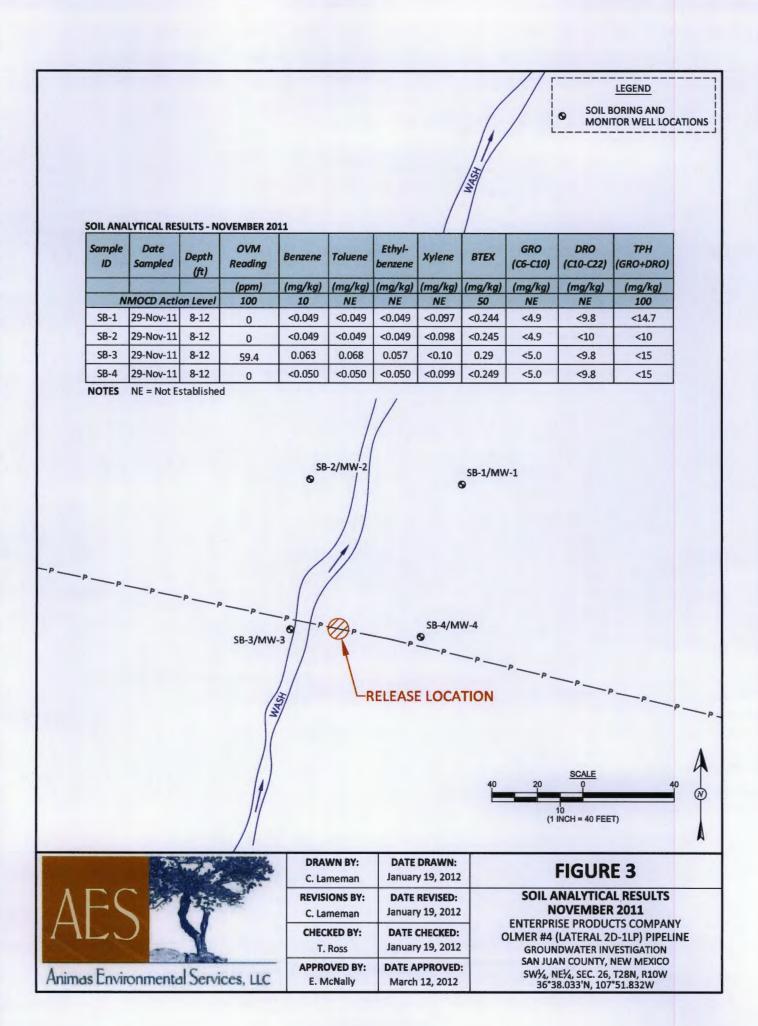
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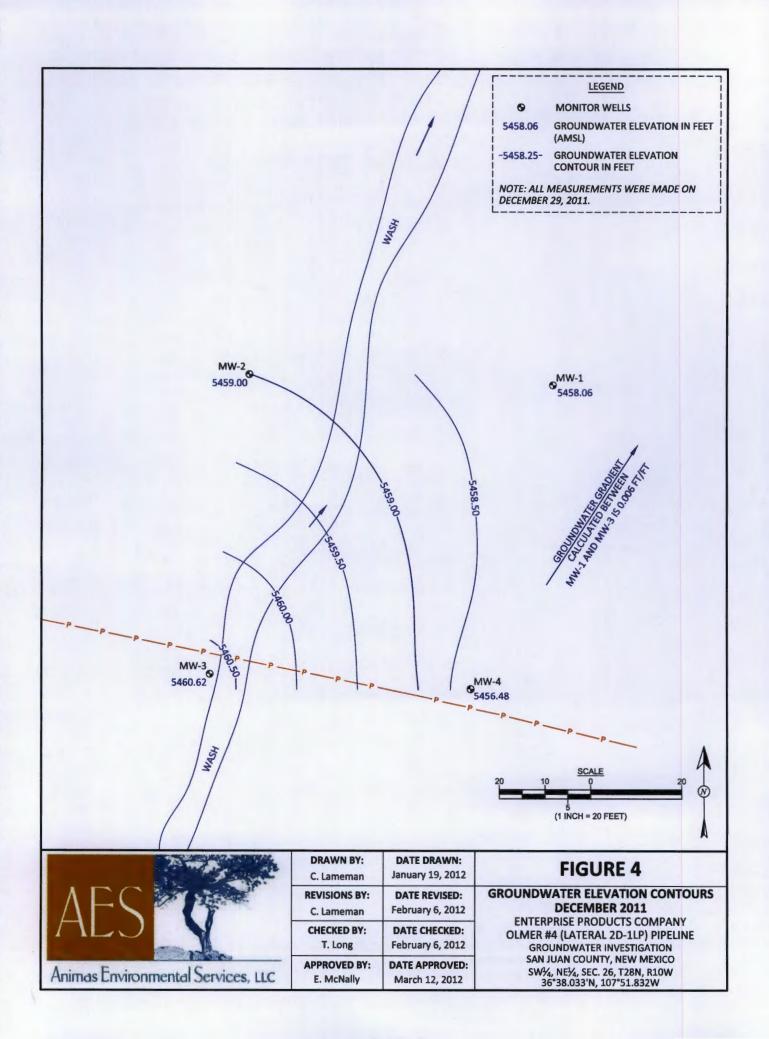
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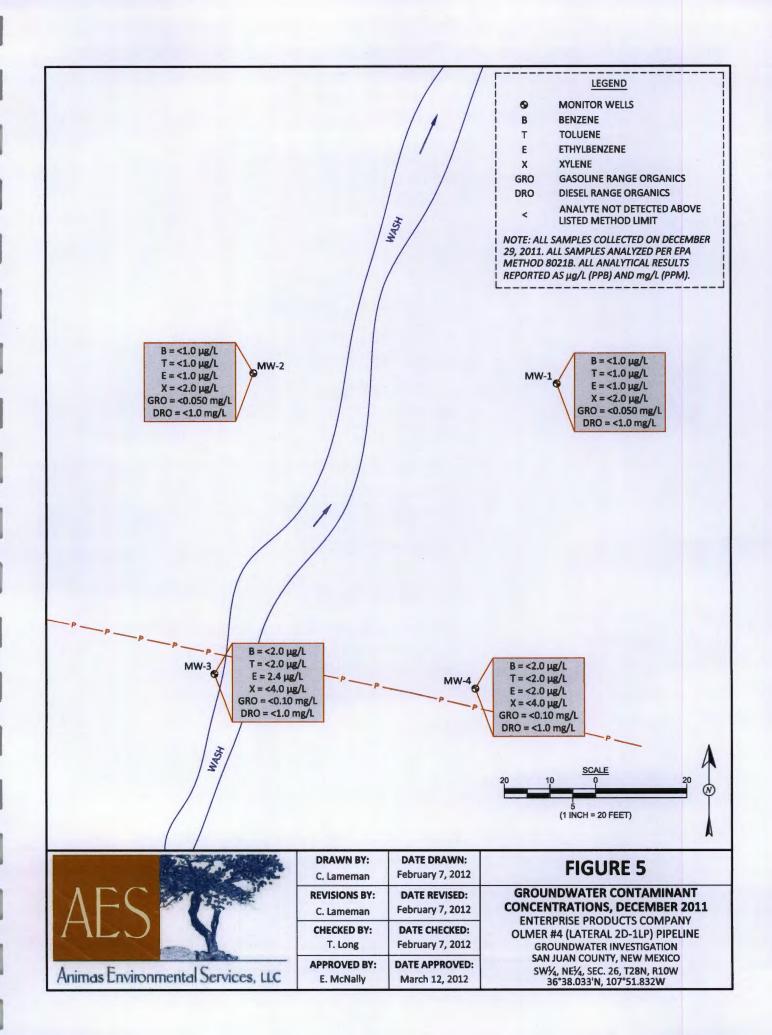


TABLE 1
SUMMARY OF SOIL FIELD-SCREENING AND LABORATORY ANALYTICAL RESULTS
Enterprise Products Company Olmer #4 Site Investigation
San Juan County, New Mexico

Sample ID	Date Sampled	Depth (ft)	OVM Reading	Benzene	Toluene	Ethyl- benzene	Xylene	ВТЕХ	GRO (C6-C10)	DRO (C10-C22)	TPH (GRO+DRO)
			(mdd)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
	NMOCD Action Level	ion Level	100	10	NE	NE	NE	20	NE	NE	100
SB-1	29-Nov-11	8-12	0	<0.049	<0.049	<0.049	<0.097	<0.244	<4.9	8.6>	<14.7
SB-2	29-Nov-11	8-12	0	<0.049	<0.049	<0.049	860.0>	<0.245	<4.9	<10	<10
SB-3	29-Nov-11	8-12	59.4	0.063	0.068	0.057	<0.10	0.29	<5.0	8.6>	<15
SB-4	29-Nov-11	8-12	0	<0.050	<0.050	<0.050	660.0>	<0.249	<5.0	8.6>	<15
NOTES	NF = Not Established	ahlished									

NE = Not Established

NA = Not Analyzed

SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA Enterprise Products Company Olmer #4 Site Investigation

San Juan County, New Mexico

		Depth to					Dissolved		Purge
		Water	Surveyed	GW Elev.		Conductivity	Oxygen	Temp.	Volume
Well ID	Date	(ft below TOC)	TOC (ft)	(ft)	рН	(mS)	(mg/L)	(°C)	(gallons)
MW-1	MW-1 29-Dec-11	9.92	5467.98	5458.06 7.14	7.14	4.53	1.48	12.47	2.64
MW-2	MW-2 29-Dec-11	9.10	5468.10	5459.00 7.13	7.13	4.624	1.28	12.06	2.49
MW-3	MW-3 29-Dec-11	7.94	5468.56	5460.62 6.67	6.67	8.44	2.29	10.44	2.82
MW-4	MW-4 29-Dec-11	11.51	5467.99	5456.48 6.42	6.42	4.712	3.19	13.15	2.37

Well ID	Date Sampled	Benzene	Toluene	Ethyl- benzene	Xylenes	GRO C6-C10	DRO C10-C22
		1/6п	1/6rl	7/6#	1/6rl	1/6w	mg/L
Sai	Sample Method		EPA Method 8021	10d 8021		EPA Method 8015M	od 8015M
WQC	WQCC STANDARD	01	250	750	979	NE	NE
MW-1	29-Dec-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-2	29-Dec-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-3	29-Dec-11	<2.0	<2.0	2.4	<4.0	<0.10	<1.0
MW-4	29-Dec-11	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0

Analyte not detected above listed method limit Not established

< NE Hg/L mg/L GRO DRO

Micrograms per liter (ppb) Milligrams per liter (ppm)

Gasoline range organics Diesel range organics

Enterprise Products Company Olmer #4 Site Investigation SUMMARY OF GROUNDWATER ANALYTICALS RESULTS

San Juan County, New Mexico

Well ID	Date Sampled	Benzene	Toluene	Ethyl- benzene	Xylenes	GRO C6-C10	DRO C10-C22
		η/βπ	1/6н	1/6 rl	7/6н	1/bw	1/bw
Sa	Sample Method		EPA Method 8021	1208 pou		EPA Method 8015M	od 8015M
WQC	WQCC STANDARD	or	750	750	929	NE	NE
MW-1	29-Dec-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-2	29-Dec-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-3	29-Dec-11	<2.0	<2.0	2.4	<4.0	<0.10	<1.0
MW-4	29-Dec-11	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0

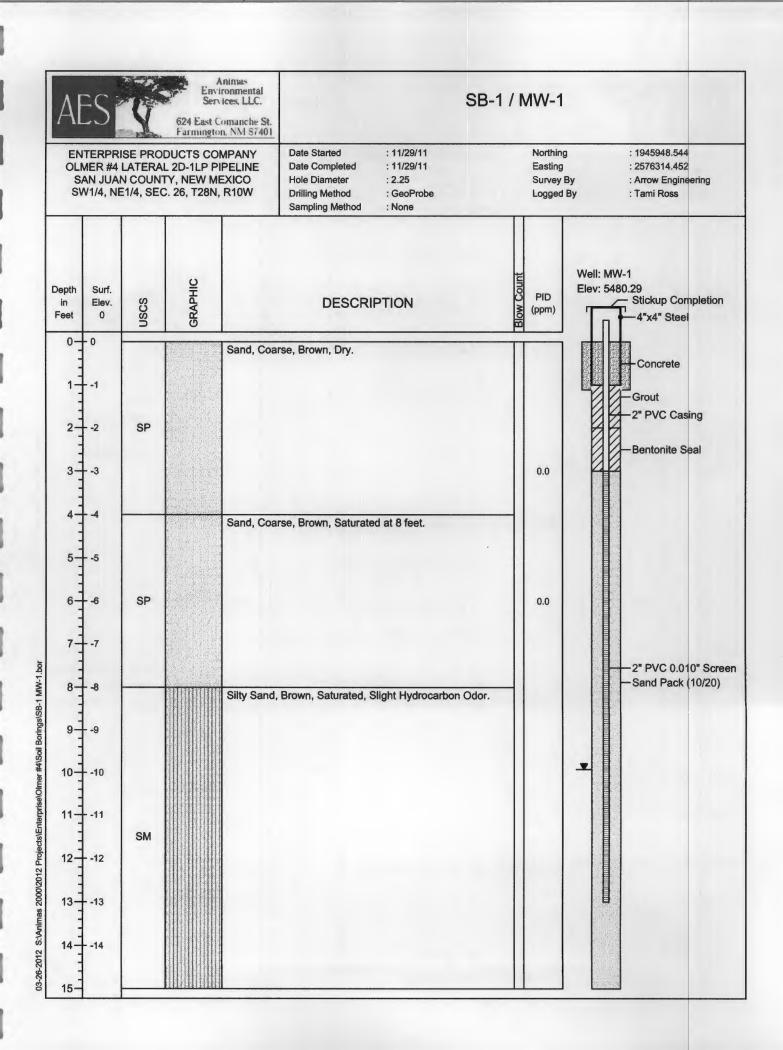
Notes:

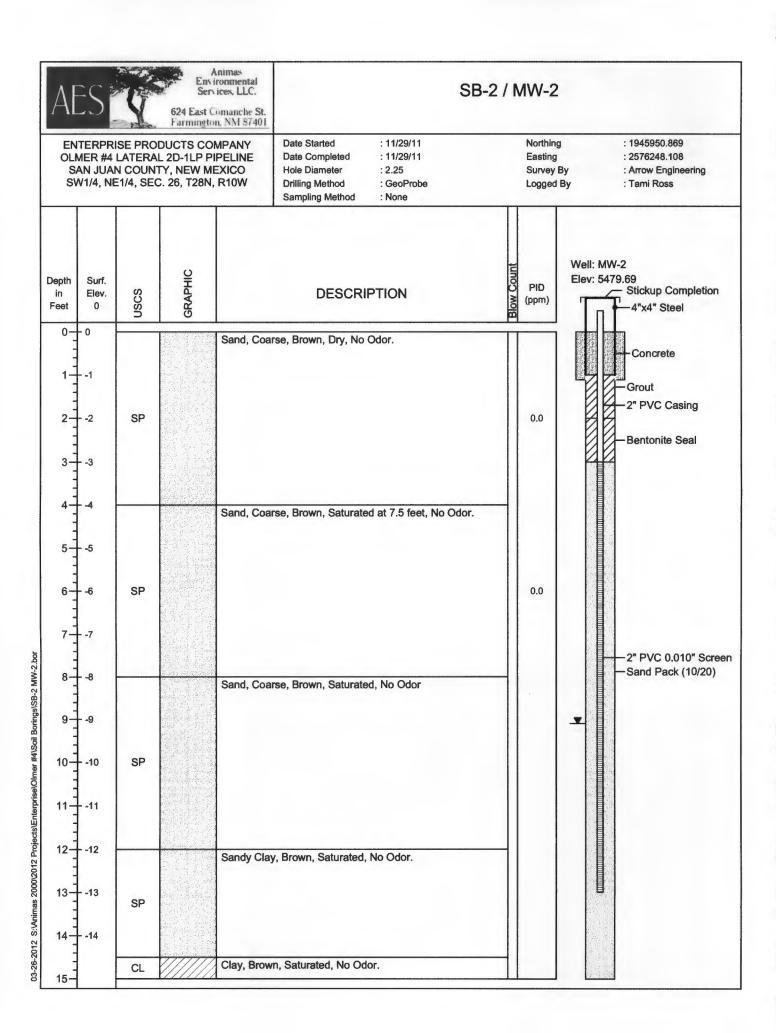
Analyte not detected above listed method limit Not established

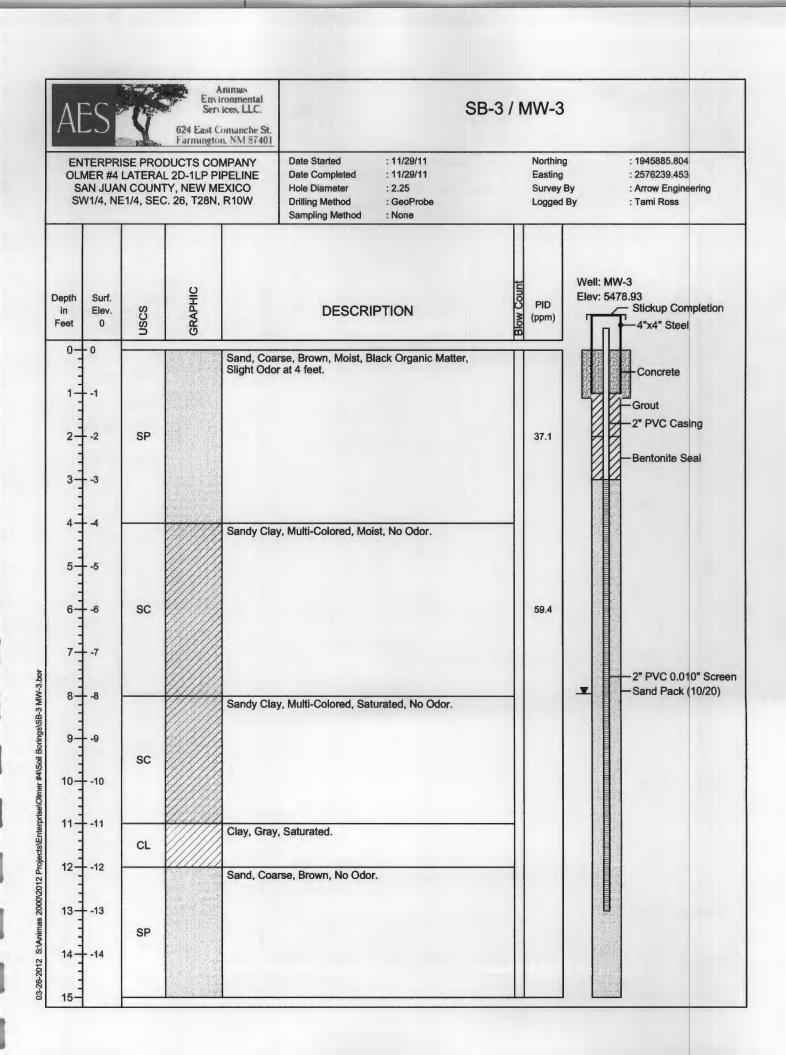
Micrograms per liter (ppb) Milligrams per liter (ppm)

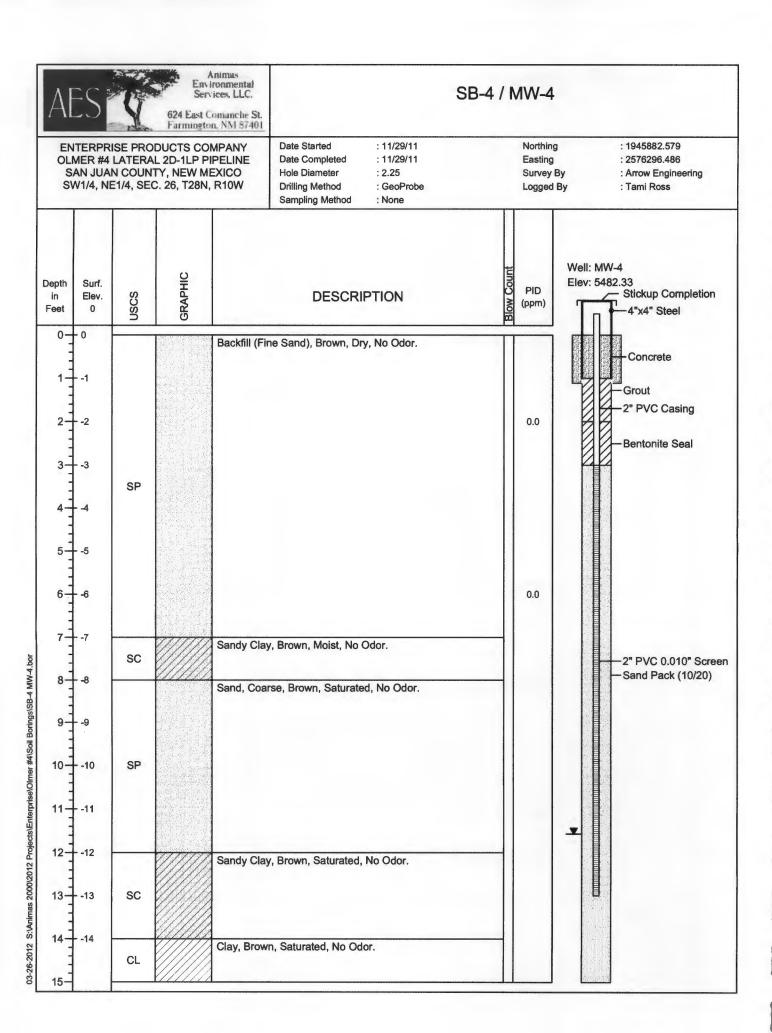
µg/L mg/L GRO DRO

Gasoline range organics Diesel range organics









MON	TORING W	ELL SAMPLI	NG REC	ORD	Ar	nimas Environme	ental Services
Mon	itor Well No:	MW	-1 (SB-1))		24 E. Comanche, Farm Tel. (505) 564-2281 Fax	-
Site	Enterprise O	lmer #4 (Lateral	2D-1LP)			Project No.: AES 1108	
		107.85458°W			-	Date: 12-29-	
	Groundwater				- /	Arrival Time: 1504	
		Nathan Willis	***************************************		_	Air Temp: 48°1	=
Purg	e / No Purge:	Purg	е	-	T.0	.C. Elev. (ft):	
Well	Diameter (in):	2			Total We	ell Depth (ft): 15.3	
	al D.T.W. (ft):		Time:			(taken at initial gauging	
		9.92	Time:	150	53	(taken prior to purging	
Fin	al D.T.W. (ft):	5.7.5	Time:		71.	(taken after sample col	
IT N	APL Present:	D.T.P.:	_ D.T.W	/···		ckness:T	IIII 0:
	1	1	Paramete	rs - Rec		Puring Well Purging	
	Temp	Conductivity	DO		ORP	PURGED VOLUME	
Time	(deg C)	(µS) (mS)	(mg/L)	pH	(mV)	(see reverse for calc.)	Notes/Observations
1514	12,04	4.640	2.55	7.13	378.0	0.25 gal,	Clear
1516	12.64	4.564	1.96	7.13	390.0	0.5	milky Brown
1518	12,62	4.532	1.57	7.13	381.0	0.5	" "
1520	12.68	4.516	1.77	7.13	381.4	0.5	ji II
1522	12.59	4.515	1.43	7.14	381.8	0.5	//
1524	12.47	4,530	1.48	7.14	382.3	0.5	11 0
1529							Samples Collected
Analyl	ical Parame	ters (include	analysis i	nethod	and nur	nber and type of sar	mple containers)
		BTEX by EPA	Method 80	21 (5 - 40	mL glas	s preserved w/ HCl)	
	TF	PH (C6 - C36) b	y EPA Met	hod 8015	(1 - 40 m	nL glass non-preserved)
	C	Disposal of Purg	jed Water:				
Colle		s Stored on Ice					
	Chain of C	ustody Record			ironmont	al Analysis Laboratory,	Albuquerque NM
Equipm	ent Used Du					terface Level, YSI Wate	
		and	New Dispo	sable Ba	iler		
Notes/Com	ments:						
		A A A A A A A A A A A A A A A A A A A				t and the second	

MON	TORING W	ELL SAMPLI	NG REC	ORD	Ar	nimas Environme	ental Services
Mon	itor Well No:	MW-	2 (5B-	2)	6	24 E. Comanche, Farm	ington NM 87401
				_	· ·	Tel. (505) 564-2281 Fax	_
Site:	Enterprise Ol	mer #4 (Lateral :	2D-1LP)			Project No.: AES 110	
Location:	36.62766°N,	107.85458°W			_	Date: 12-29	- 1(
	Groundwater					Arrival Time: 1535	
		Nathan Willis				Air Temp: 48	<u>'F</u>
-	e / No Purge:		9	-	T.O.	.C. Elev. (ft):	
	Diameter (in): al D.T.W. (ft):		Time:	-	lotal we	Il Depth (ft): 4. 8 (taken at initial gauging	of all walls)
	m D.T.W. (ft):		Time:	1530		(taken prior to purging	
	al D.T.W. (ft):		Time:	124	1	(taken after sample co	
		D.T.P.:		1.:	Thi	ckness:T	
	٧	Vater Quality I	Paramete	rs - Rec	orded D	Ouring Well Purging	
	Temp	Conductivity	DO		ORP	PURGED VOLUME	
Time	(deg C)	(µS) (ms)	(mg/L)	pH	(mV)	(see reverse for calc.)	Notes/Observations
1543	12.22	4.598	1.48	7.17	382.9	0.25 gal.	Clear
1545	12.11	4.626	1.38	7.16	1		Very light milky brown
1547	12.17	4.625	1.45	7.15		0.5	// "
1649	12.09	4.628	1.55	7.15		0.5	" "
1551	11.94	4.626	1.50	7.14		0.5	/ı tf
1553	12.06	4.624	1.28	7.13	382.1	0.5	
1558				—			Samples Collected
Analyt	ical Parame	ters (include a	nalysis r	method	and nun	nber and type of sai	nple containers)
		BTEX by EPA I	Method 80	21 (5 - 40	mL glass	s preserved w/ HCI)	
	TP	H (C6 - C36) by	EPA Met	hod 8015	(1 - 40 m	L glass non-preserved)
4		land a filtrane	1 14/-4				
0.41		isposal of Purg		***************************************		•	
Colle		Stored on Ice					VVVV 4.000000000000000000000000000000000
	Chain of Cu	stody Record (
-		-				al Analysis Laboratory,	
Equipm	ent Used Dur	-	New Dispo			erface Level, YSI Wate	r Quality Meter
Notes/Com	mante:	anu	New Dispo	Saule Da	IIEI		
totes/com	ments.						
						-	

evised: 12/29

MON	ITORING W	VELL SAMPLI	NG REC	ORD	Ar	nimas Environme	ental Services
Mor	nitor Well No:	MW-	3 (SB-	3)		24 E. Comanche, Farmi rel. (505) 564-2281 Fax	-
Site	: Enterprise C	lmer #4 (Lateral:	2D-1LP)			Project No.: AES 1108	
		, 107.85458°W				Date: 17-29-	
	: Groundwate				- 1	Arrival Time: 1601	
Samplin	g Technician	: Nathan Willis				Air Temp: 48°	<u>F</u>
Purg	ge / No Purge	: Purg	8	-	T.O.	.C. Elev. (ft): [3.6	
		: 2	Time:	-	lotal We	taken at initial gauging	
Confid	ial D.T.W. (ft)	: 7.94		11 6	7	(taken prior to purging	
Fir	nal D.T.W. (ft)	· #. TI	Time:	160	/>	(taken after sample col	
If N	APL Present	D.T.P.:		V.:	Thi	ckness:T	
		Water Quality	Paramete	rs - Rec	orded D	uring Well Purging	
	Temp	Conductivity	DO		ORP	PURGED VOLUME	
Time	(deg C)	(µS) (mS)	(mg/L)	рН	(mV)	(see reverse for calc.)	Notes/Observations
1608	10.04	9.048	Z.47	6.59	366.8		Amber brown
1610	10.33	8.989	2.91		334.1		Fizzy like soda
	10.44						
1612	10.4-1	8.440	2.29	4.67	295,1	0,25	Very bu Yield
						•	V
1617		·					Samples Collected
				-			
						Manufacture Control of the Control o	
Analy	tical Param	eters (include	analysis	method	and nur	nber and type of sai	mple containers)
		BTEX by EPA	Method 80	21 (5 - 40	mL glas	s preserved w/ HCI)	
	Т	PH (C6 - C36) b	y EPA Met	hod 8015	(1:- 40 m	nL glass non-preserved)
		Nisposal of Puro	and Water				
Colle	ected Sample	es Stored on Ice	in Cooler:				
	Chain of C	sustody Record	Complete:			0.00	
		Analytical La	aboratory:	Hall Env	ironment	al Analysis Laboratory,	Albuquerque, NM
Equipn	nent Used Du	ring Sampling:	Keck Wate	er Level o	Keck Int	terface Level, YSI Wate	r Quality Meter
			New Dispo				
		ailu	Tota Dispe	Joddie Da			
Notes/Con	nments:						
	where we will design the second secon						
****						v. v	
revised. 1	2/29/11						

		ELL SAMPLI			6	nimas Environme 24 E. Comanche, Farm	ington NM 87401
						Tel. (505) 564-2281 Fax	
		Imer #4 (Lateral	2D-1LP)		_	Project No.: AES 110	
		107.85458°W			-	Date: 12-29-	d
	Groundwater				- '	Arrival Time: 1440	the state of the s
	g Technician: je / No Purge:	Nathan Willis Purge			т о	Air Temp: L/8°F	
	Diameter (in):					Il Depth (ft): 16.	21
	al D.T.W. (ft):		Time:	-	rotal vvo	(taken at initial gauging	
	m D.T.W. (ft):		Time:	1444		(taken prior to purging	
	al D.T.W. (ft):		Time:			(taken after sample co.	**
If N	APL Present	D.T.P.:	_ D.T.W	l.:	Thi	ckness: T	ime:
	1	Water Quality	Paramete	rs - Rec	orded D	uring Well Purging	
	Temp	Conductivity	DO		ORP	PURGED VOLUME	
Time	(deg C)	(µS) (mS)	(mg/L)	pH	(mV)	(see reverse for calc.)	Notes/Observations
1448	13.54	5.039	3.28	7.38	362.2	0.25 gal.	Milky looking
1451	13.02	4.919	2.97	5.85	372.2	0.5	Brown (a lot of sodi
1454	13.15	4.712	3.19	6.42	374.7	0.5	a lot of sodimele
							low Yield
							Tow Treid
						,	
							· · · · · · · · · · · · · · · · · · ·
1459							Samples Collected
		1					
Analyl	ical Parame	ters (include a	nalysis ı	nethod a	and nun	nber and type of sai	mple containers)
		BTEX by EPA	Method 80	21 (5 - 40	mL glass	s preserved w/ HCI)	
	TF	H (C6 - C36) b	y EPA Met	hod 8015	(1 - 40 m	L glass non-preserved)
	ī	isposal of Purg	ed Water:				
Calla				***************************************			
Colle		s Stored on Ice		4			
	Chain of Ci	ustody Record (-
		Analytical La	aboratory:	Hall Envi	ronmenta	al Analysis Laboratory,	Albuquerque, NM
Equipm	ent Used Du	ring Sampling:	Keck Wate	r Level or	Keck Int	erface Level, YSI Wate	r Quality Meter
		and	New Dispo	sable Bai	ler		
otes/Com	ments:						
2,20, 2011						All of the state o	

eviseu. 1229

Animas Environmental Services GROUNDWATER MONITORING WELL 624 E. Comanche, Farmington NM 87401 **DEVELOPMENT FORM** Tel. (505) 564-2281 Fax (505) 324-2022 Project No.: AE3 11080Z Project: Monitor Well Development Date: 12-16-11 Site: Olner #4 Time: 1320 to 1530 Location: N36°39,083' W107°51.832 Form: 1 of 1 Tech: N. Willis Depth to NAPL Well Depth to **Purged Volume** Method / Notes / Observations ID (ft.) Water (ft.) (gal.) Stand @ 1330 Finish @ 1540 Development pump / Water at First was dirty (Film 21 NW Bogal. with sediment) then I rea clear fast recharge well Depth to NAPL Depth to **Purged Volume** Well Method / Notes / Observations ID Water (ft.) (gal.) (ft.) Development pump/water-alat of ordinary @ first/slow recharge / 1 gal @ 1335/53. @ 451 /0.753. @ 1521 stant @ 1345 finish @ 1521 Southwest Well **Purged Volume** Well Depth to NAPL Depth to Method / Notes / Observations Water (ft.) ID (ft.) (gal.) Development pump/water - seasonat @ First/stow returned 1/2 sal @ 1404//2 # 441/ 1014 < last Dockers Southeast I gal. Very slow recharge Well Well Depth to NAPL Depth to **Purged Volume** Method / Notes / Observations ID (ft.) Water (ft.) (gal.) Development pump/water-filled with sediment @ first 1. the sediment @ finish Stant @ 1408 finish @ 1431 Wortheast Zl gal Well Well Depth to NAPL Depth to **Purged Volume** Method / Notes / Observations Water (ft.) ID (ft.) (gal.) Depth to NAPL Depth to **Purged Volume** Well Method / Notes / Observations Water (ft.) D (ft.) (gal.) Well Depth to NAPL Depth to **Purged Volume** Method / Notes / Observations ID (ft.) Water (ft.) (gal.) Puged Water Storage, Transport, and Disposal Information:

		VELL SAMPLI		ORD		nimas Environme	
Mon	itor Well No:	Wastew	ater			24 E. Comanche, Farm	•
						Tel. (505) 564-2281 Fax	
		Imer #4 (Lateral :	2D-1LP)			Project No.: AES 1108	- La Alabamana
		107.85458°W				Date: 12-29	- 11
	Groundwate					Arrival Time: 12 19	
		: Nathan Willis				Air Temp: 43°F	
		: Purge	3	_		.C. Elev. (ft):	
Well	Diameter (in)	:2	-	. 1	otal We	ell Depth (ft):	
Initi	al D.T.W. (ft)	:	Time:	***		(taken at initial gauging	
	m D.T.W. (ft)	*****	Time:			(taken prior to purging	
	al D.T.W. (ft)		Time:		73	(taken after sample co	
ITN	APL Present	: D.T.P.:	D.T.W		_ in	ickness:T	IMe:
		Water Quality I	Paramete	rs - Rec	orded D	Ouring Well Purging	
	Temp	Conductivity	DO		ORP	PURGED VOLUME	
Time	(deg C)	(µS) (mS)	(mg/L)	рН	(mV)	(see reverse for calc.)	Notes/Observations
	No	Water	Qual	L T	aken		
		00000					
1224							Sample Collected
							The state of
,							
					-		
					-		
Analyl	ical Parame	eters (include a	nalvsis r	nethod a	nd nur	nber and type of sar	mple containers)
		Chlorides by EPA	Method 3	00.0 (1 - 3	oud ml p	plastic non-preserved)	
	· · · · · · · · · · · · · · · · · · ·						
	1	Disposal of Purg	ed Water:	AVA			
Colle	cted Sample	s Stored on Ice	in Cooler:	YES		Market Control of the	
	Chain of C	ustody Record (Complete:	YES			
		Analytical La	boratory:	Hall Envi	ronment	al Analysis Laboratory,	Albuquerque, NM
Equipm	ont Head Du					terface Level, YSI Water	
Equipit	iem oseu Du		New Dispo			terrace Level, 131 Water	Quality Weter
Notes/Com	monte: (1	
_		mple Collected				gal, metal dru	m Used
for '	Olmer #4	monitor w	ell deve	copment	اولم	stewater.	

Jacu.

12/24

DEPTH TO GROUNDWATER MEASUREMENT FORM

Enterprise Olmer #4 (Lateral 2D-1LP) Site: Location: 36.62766°N, 107.85458°W

Groundwater Sampling

Nathan Willis Tech:

Project:

Animas Environmental Services

624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Project No.: AES 110802

Date: 12-29-11 Time: 1440

Form: 1 of 1

Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
MW-1	1508		9.92		5B-1
MW-2	1539		9.10		58-2 58-3
MW-3	1603		7.94		5B-3
MW-4	1444		11.51		5B-4

			•		

Wells measured with KECK water level or KECK interface tape, decontaminated between each well measurement.



COVER LETTER

Friday, February 10, 2012

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

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

RE: Olmer #4

Dear Tami Ross:

Order No.: 1111A67

Hall Environmental Analysis Laboratory, Inc. received 4 sample(s) on 11/29/2011 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued December 07, 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: 10-Feb-12 Analytical Report

CLIENT:

Animas Environmental Services

1111A67

Lab Order: Project:

Lab ID:

Olmer #4 1111A67-01 Client Sample ID: SB-1

Collection Date: 11/29/2011 10:13:00 AM

Date Received: 11/29/2011

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS					Analyst: JB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	12/2/2011 6:30:55 PM
Surr: DNOP	91.7	77.4-131		%REC	1	12/2/2011 6:30:55 PM
EPA METHOD 8015B: GASOLINE RA	NGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/3/2011 2:26:05 AM
Sun: BFB	102	75.2-136		%REC	1	12/3/2011 2:26:05 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.049		mg/Kg	1	12/3/2011 2:26:05 AM
Toluene	ND	0.049		mg/Kg	1	12/3/2011 2:26:05 AM
Ethylbenzene .	ND	0.049		mg/Kg	1	12/3/2011 2:26:05 AM
Xylenes, Total	ND	0.097		mg/Kg	1	12/3/2011 2:26:05 AM
Surr: 4-Bromofluorobenzene	114	80-120		%REC	1	12/3/2011 2:26:05 AM

Qualifiers:

- Value exceeds Maximum Contaminant Level
- Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Meximum Contaminant Level
- ND Not Detected at the Reporting Limit
- Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Feb-12
Analytical Report

CLIENT:

Animas Environmental Services

1111A67

Lab Order: Project:

Olmer #4

Lab ID:

1111A67-02

Client Sample ID: SB-2

Collection Date: 11/29/2011 10:43:00 AM

Date Received: 11/29/2011

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	12/2/2011 7:05:02 PM
Surr: DNOP	93.0	77.4-131		%REC	1	12/2/2011 7:05:02 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/3/2011 2:54:50 AM
Surr: BFB	100	75.2-136		%REC	1	12/3/2011 2:54:50 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.049		mg/Kg	1	12/3/2011 2:54:50 AM
Toluene	ND	0.049		mg/Kg	1	12/3/2011 2:54:50 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/3/2011 2:54:50 AM
Xylenes, Total	ND	0.098		mg/Kg	1	12/3/2011 2:54:50 AM
Surr: 4-Bromofluorobenzene	113	80-120		%REC	1	12/3/2011 2:54:50 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Feb-12
Analytical Report

CLIENT:

Animas Environmental Services

Client Sample ID: SB-3

Lab Order:

1111A67

Collection Date: 11/29/2011 11:11:00 AM

Project:

Olmer #4

Date Received: 11/29/2011

Lab ID:

1111A67-03

Matrix: SOIL

						•
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS					Analyst: JB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	12/2/2011 8:13:16 PM
Surr: DNOP	97.0	77.4-131		%REC	1	12/2/2011 8:13:16 PM
EPA METHOD 8015B: GASOLINE RA	ANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/3/2011 3:23:34 AM
Surr: BFB	104	75.2-136		%REC	1	12/3/2011 3:23:34 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	0.063	0.050		mg/Kg	1	12/3/2011 3:23:34 AM
Toluene	0.068	0.050		mg/Kg	. 1	12/3/2011 3:23:34 AM
Ethylbenzene	0.057	0.050		mg/Kg	1	12/3/2011 3:23:34 AM
Xylenes, Total	ND	0.10		mg/Kg	1	12/3/2011 3:23:34 AM
Surr: 4-Bromofluorobenzene	112	80-120		%REC	1	12/3/2011 3:23:34 AM

Qualifiers:

- Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Feb-12 Analytical Report

CLIENT: Lab Order: **Animas Environmental Services**

1111A67

Olmer #4

Project: Lab ID: 1111A67-04 Client Sample ID: SB-4

Collection Date: 11/29/2011 11:51:00 AM

Date Received: 11/29/2011

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE O	RGANICS					Analyst: JB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	12/2/2011 8:47:13 PM
Sum: DNOP	94.6	77.4-131		%REC	1	12/2/2011 8:47:13 PM
EPA METHOD 8015B: GASOLINE RANG	E					Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/3/2011 3:52:25 AM
Surr. BFB	101	75.2-136		%REC	1	12/3/2011 3:52:25 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.050		mg/Kg	1	12/3/2011 3:52:25 AM
Toluene	ND	0.050		mg/Kg	1	12/3/2011 3:52:25 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/3/2011 3:52:25 AM
Xylenes, Total	ND	0.099		mg/Kg	1	12/3/2011 3:52:25 AM
Surr: 4-Bromofluorobenzene	112	80-120		%REC	1	12/3/2011 3:52:25 AM

Qualifiers:

- Value exceeds Maximum Contaminant Level
- Estimated value
- Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- Spike recovery outside accepted recovery limits

Date: 10-Feb-12

QA/QC SUMMARY REPORT

Client:

Animas Environmental Services

Project:

Olmer #4

Work Order: 1111A67

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec L	owLimit Hi	ghLimit %RPD	RPDLimit Qual
Method: EPA Method 8015B: D	iesel Range	Organics							
Sample ID: MB-29577		MBLK				Batch ID:	29577	Analysis Date:	12/2/2011 9:18:47 A
Diesel Range Organics (DRO)	ND	mg/Kg	10						
Sample ID: LCS-29577		LCS				Batch ID:	29577	Analysis Date:	12/2/2011 9:52:54 A
Diesel Range Organics (DRO)	46.91	mg/Kg	10	50	6.047	81.7	62.7	139	
Method: EPA Method 8015B: G	asoline Rar	nge							
Sample ID: MB-29569		MBLK				Batch ID:	29569	Analysis Date:	12/2/2011 1:07:52 F
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0						
Sample ID: LCS-29569		LCS				Batch ID:	29569	Analysis Date:	12/2/2011 12:10:13 F
Gasoline Range Organics (GRO)	27.86	mg/Kg	5.0	25	0	111	86.4	132	
Method: EPA Method 8021B: V	olatiles								
Sample ID: MB-29569		MBLK				Batch ID:	29569	Analysis Date:	12/2/2011 1:07:52 F
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-29569		LCS				Batch ID:	29569	Analysis Date:	12/2/2011 12:39:03 P
Benzene	1.030	mg/Kg	0.050	1	0.0214	101	80	120	
Toluene	1.053	mg/Kg	0.050	1	0.0216	103	80	120	
Ethylbenzene	1.069	mg/Kg	0.050	1	0.0233	105	80	120	
Kylenes, Total	3.224	mg/Kg	0.10	3	0.0722	105	80	120	

Qualifiers:

Estimated value

Analyte detected below quantitation limits

Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded

Non-Chlorinated

RPD outside accepted recovery limits

=	RY					1			(N Jo	N)	Air Bubbles						學	
HALL ENVIRONMENTAL ANALYSIS LABORATOR www.hallenvironmental.com www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request		Anal	TPH Method 8015B (Gas/Diesel) TPH (Method 804.1) 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)							Bill to Embraria Fralucts Company								
			01 Ha	al. 505					158 (0	08 F	ortieM HqT	2	2	>	>		8 (TZ)	
			49	ř							## + X3T8			/			Remarks;	
Turn-Around Time:	Standard Rush	Project Name:	Dimer #4	Project #:			2	tour Loss	Sampler: TCM (Lass)		Container Preservative Type and # Type	1 297	yoz2 ,	4023	4 -4 N		Received by: Date Time F	1/4/4 Olas
Chain-of-Custody Record	Client: Animas Chuminantal Savires		E Commonle	2	20	email or Fax#:-htt55@anj MOSCANNinmhal.com Project Manager:		☐ Level 4 (Full Validation)	Į.		Sample Request ID	28-7	58-2	58-3	38-4		pquished by: Konstradished by:	Thereton blooker
D-JC	0		Jean	DU.	79	55@			□ Other		Matrix	38.	ig	8	R		Relinquished by:	3
ain	nimos		ddress:	IIM +	8	ax#:-hu	ckage:	P	don	Type)	Time	500	520	-	1151			979
5	Client: A		Mailing Address: Logu	Farming fon.	Phone #:	email or F	OA/QC Package:	X Standard	Accreditation	□ EDD (Type)		11/24/11	11/24/11		11/24/11		MyAlul Date:	04011 1/261"



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

February 09, 2012

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

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

RE: Enterprise Products Olmer #4

OrderNo.: 1201047

Dear Tami Ross:

Hall Environmental Analysis Laboratory received 6 sample(s) on 1/3/2012 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued January 09, 2012

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

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1201047

Date Reported: 2/9/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: TRIP BLANK

Project: E

Enterprise Products Olmer #4

Collection Date:

Lab ID: 1201047-001

Matrix: TRIP BLANK

Received Date: 1/3/2012 2:00:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	1.0	μg/L	1	1/4/2012 2:44:45 PM
Toluene	ND	1.0	μg/L	1	1/4/2012 2:44:45 PM
Ethylbenzene	ND	1.0	μg/L	1	1/4/2012 2:44:45 PM
Xylenes, Total	ND	2.0	μg/L	1	1/4/2012 2:44:45 PM
Surr: 4-Bromofluorobenzene	96.4	76.5-115	%REC	1	1/4/2012 2:44:45 PM

Qualifiers:

X Value exceeds Maximum Contaminant Level.

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

Page 1 of 10

Lab Order 1201047

Date Reported: 2/9/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Enterprise Products Olmer #4

Lab ID: 1201047-002

Client Sample ID: MW-1

Collection Date: 12/29/2011 3:29:00 PM

Received Date: 1/3/2012 2:00:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE		***		Analyst: JMP
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	1/4/2012 7:02:10 PM
Surr: DNOP	98.4	81.1-147	%REC	1	1/4/2012 7:02:10 PM
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	0.050	mg/L	1	1/4/2012 3:13:38 PM
Surr: BFB	92.1	69.3-120	%REC	1	1/4/2012 3:13:38 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	1.0	μg/L	1	1/4/2012 3:13:38 PM
Toluene	ND	1.0	µg/L	1	1/4/2012 3:13:38 PM
Ethylbenzene	ND	1.0	μg/L	1	1/4/2012 3:13:38 PM
Xylenes, Total	ND	2.0	µg/L	1	1/4/2012 3:13:38 PM
Surr: 4-Bromofluorobenzene	97.9	76.5-115	%REC	1	1/4/2012 3:13:38 PM

Matrix:

Qualifiers:

X Value exceeds Maximum Contaminant Level.

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

Page 2 of 10

Lab Order 1201047

Date Reported: 2/9/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Enterprise Products Olmer #4

1201047-003

Lab ID:

Client Sample ID: MW-2

Collection Date: 12/29/2011 3:58:00 PM

Received Date: 1/3/2012 2:00:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE				Analyst: JMP
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	1/4/2012 7:36:03 PM
Surr: DNOP	97.9	81.1-147	%REC	1	1/4/2012 7:36:03 PM
EPA METHOD 8015B: GASOLINE R.	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	0.050	mg/L	1	1/4/2012 5:08:51 PM
Surr: BFB	92.2	69.3-120	%REC	1	1/4/2012 5:08:51 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	1.0	µg/L	1	1/4/2012 5:08:51 PM
Toluene	ND	1.0	μg/L	1	1/4/2012 5:08:51 PM
Ethylbenzene	ND	1.0	μg/L	1	1/4/2012 5:08:51 PM
Xylenes, Total	ND	2.0	µg/L	1	1/4/2012 5:08:51 PM
Surr: 4-Bromofluorobenzene	98.7	76.5-115	%REC	1	1/4/2012 5:08:51 PM

Matrix:

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

Page 3 of 10

Lab Order 1201047

Date Reported: 2/9/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Enterprise Products Olmer #4

Lab ID: 1201047-004

Client Sample ID: MW-3

Collection Date: 12/29/2011 4:17:00 PM

Received Date: 1/3/2012 2:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE					Analyst: JMP
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	1/4/2012 8:10:13 PM
Surr: DNOP	152	81.1-147	S	%REC	1	1/4/2012 8:10:13 PM
EPA METHOD 8015B: GASOLINE R.	ANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	0.10		mg/L	2	1/4/2012 7:04:06 PM
Surr: BFB	93.6	69.3-120		%REC	2	1/4/2012 7:04:06 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	2.0		µg/L	2	1/4/2012 7:04:06 PM
Toluene	ND	2.0		µg/L	2	1/4/2012 7:04:06 PM
Ethylbenzene	2.4	2.0		µg/L	2	1/4/2012 7:04:06 PM
Xylenes, Total	ND	4.0		µg/L	2	1/4/2012 7:04:06 PM
Surr: 4-Bromofluorobenzene	98.3	76.5-115		%REC	2	1/4/2012 7:04:06 PM

Matrix:

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

Page 4 of 10

Lab Order 1201047

Date Reported: 2/9/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

roject: Enterprise Products Olmer #4

Lab ID: 1201047-005

Client Sample ID: MW-4

Collection Date: 12/29/2011 2:59:00 PM

Received Date: 1/3/2012 2:00:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN	GE				Analyst: JMP
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	1/4/2012 8:44:35 PM
Surr: DNOP	106	81.1-147	%REC	1	1/4/2012 8:44:35 PM
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	0.10	mg/L	2	1/4/2012 8:01:51 PM
Surr: BFB	92.5	69.3-120	%REC	2	1/4/2012 8:01:51 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	2.0	μg/L	2	1/4/2012 8:01:51 PM
Toluene	ND	2.0	μg/L	2	1/4/2012 8:01:51 PM
Ethylbenzene	ND	2.0	µg/L	2	1/4/2012 8:01:51 PM
Xylenes, Total	ND	4.0	µg/L	2	1/4/2012 8:01:51 PM
Surr: 4-Bromofluorobenzene	99.0	76.5-115	%REC	2	1/4/2012 8:01:51 PM

Matrix:

Qualifiers:

X Value exceeds Maximum Contaminant Level.

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

Page 5 of 10

Lab Order 1201047

Date Reported: 2/9/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Enterprise Products Olmer #4

Lab ID: 1201047-006

Client Sample ID: Waste Water

Collection Date: 12/29/2011 12:24:00 PM

Matrix: AQUEOUS Received Date: 1/3/2012 2:00:00 PM

Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: BRM
Chloride	58	10	mg/L	20	1/4/2012 8:12:51 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

Page 6 of 10

Hall Environmental Analysis Laboratory, Inc.

WO#:

1201047

09-Feb-12

Client:

Animas Environmental Services

Project:

Enterprise Products Olmer #4

Sample ID MB

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID: PRW

Batch ID: R220

RunNo: 220

Analysis Date: 1/4/2012

SeqNo: 6832

Units: mg/L

HighLimit

Analyte

PQL

SPK value SPK Ref Val %REC LowLimit

RPDLimit

Qual

Chloride

Prep Date:

ND 0.50

Sample ID LCS

SampType: LCS

RunNo: 220

TestCode: EPA Method 300.0: Anions

Client ID: LCSW

Batch ID: R220

SeqNo: 6833

Units: mg/L

Analyte Chloride

Prep Date:

Analysis Date: 1/4/2012 Result

5.000

5.000

5.000

SPK value SPK Ref Val %REC

LowLimit **HighLimit**

LowLimit

%RPD

%RPD

%RPD

RPDLimit

Qual

Sample ID 1201057-001AMS SampType: MS

RunNo: 220

TestCode: EPA Method 300.0: Anions

Prep Date:

Client ID: **BatchQC**

Batch ID: R220 Analysis Date: 1/4/2012

SeqNo: 6847

Units: mg/L

Analyte

SPK value Result PQL

%REC

HighLimit

107

RPDLimit Qual

Chloride

Result

20

20

SampType: MSD

0.50

TestCode: EPA Method 300.0: Anions

90.0

RunNo: 220

Prep Date:

Client ID: BatchQC

Sample ID 1201057-001AMSD

Batch ID: R220 Analysis Date: 1/4/2012

SeqNo: 6848

Units: mg/L **HighLimit**

RPDLimit

Qual

Analyte Chloride

PQL

0.50

SPK value SPK Ref Val %REC 15.35

SPK Ref Val

15.35

88.0

78

LowLimit

107

%RPD 0.518

20

Value exceeds Maximum Contaminant Level.

Value above quantitation range

Analyte detected below quantitation limits

RPD outside accepted recovery limits

В Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

Reporting Detection Limit

Page 7 of 10

Hall Environmental Analysis Laboratory, Inc.

WO#:

1201047

09-Feb-12

Client:

Animas Environmental Services

Project:

Enterprise Products Olmer #4

Sample ID MB-132

SampType: MBLK

TestCode: EPA Method 8015B: Diesel Range

Client ID: PBW

Batch ID: 132

RunNo: 216

Prep Date: 1/4/2012

SeqNo: 6769

Analyte

Analysis Date: 1/4/2012

Units: mg/L HighLimit

Diesel Range Organics (DRO) Surr: DNOP

ND 1.4

1.000

0.5000

SPK value SPK Ref Val %REC

137 81.1

LowLimit

%RPD **RPDLimit**

Qual

Sample ID LCS-132

SampType: LCS

TestCode: EPA Method 8015B: Diesel Range

147

Client ID: LCSW

Batch ID: 132

RunNo: 216

Prep Date: 1/4/2012

Analysis Date: 1/4/2012

1.0

SeqNo: 6770

Units: mg/L **HighLimit**

Analyte Diesel Range Organics (DRO)

PQL SPK value SPK Ref Val %REC 3.8 1.0 5.000

LowLimit 76.3 102

74

81.1

RPDLimit Qual

Surr: DNOP

0.51

147 TestCode: EPA Method 8015B: Diesel Range

157

147

157

Sample ID LCSD-132 Client ID: LCSS02

SampType: LCSD Batch ID: 132

Result

RunNo: 216

Prep Date: 1/4/2012

Analysis Date: 1/4/2012

SeqNo: 6771

Units: mg/L

Diesel Range Organics (DRO)

PQL SPK value SPK Ref Val %REC

LowLimit 80.7

HighLimit 74

%RPD 5.62

%RPD

RPDLimit

23

Surr: DNOP

4.0 1.0 5.000 0.53 0.5000

107

81.1

0

0

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range

Analyte detected below quantitation limits

RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit Reporting Detection Limit

Page 8 of 10

Hall Environmental Analysis Laboratory, Inc.

WO#:

1201047

09-Feb-12

Client:

Animas Environmental Services

Project:

Enterprise Products Olmer #4

Sample ID 5	ML-RB
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SampType: MBLK

TestCode: EPA Method 8015B: Gasoline Range

Client ID: **PBW**

Batch ID: R221

RunNo: 221

Analysis Date: 1/4/2012

SeqNo: 6873

Units: mg/L

Prep Date: Analyte

SPK value SPK Ref Val %REC

HighLimit

%RPD **RPDLimit**

Qual

Gasoline Range Organics (GRO) Sum: BFB

ND 0.050 18

20.00

90.4

LowLimit

69.3 120

Sample ID 2.5UG GRO LCS

SampType: LCS

TestCode: EPA Method 8015B: Gasoline Range

Client ID: LCSW

Batch ID: R221

RunNo: 221

Units: mg/L

Prep Date: Analyte

Analysis Date: 1/4/2012

PQL

0.050

SegNo: 6876

LowLimit **HighLimit** **RPDLimit** Qual

Gasoline Range Organics (GRO) Sur: BFB

Result 0.53 20

0.5000 20.00

SPK value SPK Ref Val

%REC 105 97.7

RunNo: 221

81.8 69.3

%RPD 120

Client ID:

Sample ID 5ML-RB **PBW**

SampType: MBLK

18

TestCode: EPA Method 8015B: Gasoline Range

HighLimit

120

120

Prep Date: Analyte

Analysis Date: 1/4/2012

Batch ID: R221

SeqNo: 11161

LowLimit

Units: mg/L

Gasoline Range Organics (GRO) Surr: BFB

Result PQL 0.050 ND

20.00

%REC 90.6

69.3

%RPD

RPDLimit Qual

Sample ID 2.5UG GRO LCS

SampType: LCS

Batch ID: R221

Analysis Date: 1/4/2012

SPK value SPK Ref Val

TestCode: EPA Method 8015B: Gasoline Range

RunNo: 221

SeqNo: 11164

Units: mg/L

Gasoline Range Organics (GRO)

Prep Date:

Result 0.55 20

0.050 0.5000

SPK value SPK Ref Val %REC

LowLimit 110 81.8

HighLimit 120 **RPDLimit**

Qual

Surr: BFB

SampType: MS

120 97.8 69.3 TestCode: EPA Method 8015B: Gasoline Range

Sample ID 1201047-002A MS Client ID: MW-1

Client ID: LCSW

Batch ID: R221

RunNo: 221

108

98.2

Qual

Prep Date: Analyte

Analysis Date: 1/4/2012 Result PQL

0.54

20

SPK value SPK Ref Val 0.5000

20.00

0.5000

20.00

SPK value SPK Ref Val

ND

20.00

SeqNo: 11165

Units: mg/L

%REC

LowLimit

LowLimit

75.4

69.3

75.4

69.3

HighLimit

RPDLimit Qual

Gasoline Range Organics (GRO) Sur: BFB

Sample ID 1201047-002A MSD

SampType: MSD

0.050

PQL

0.050

120 TestCode: EPA Method 8015B: Gasoline Range

121

Client ID: MW-1 Prep Date:

Batch ID: R221 Analysis Date: 1/4/2012

Result

0.53

20

RunNo: 221 SeqNo: 11166

%REC

107

98.0

HighLimit

121

120

Units: mg/L

%RPD

1.01

0

%RPD

%RPD

Analyte Gasoline Range Organics (GRO)

Sun: BFB

Qualifiers:

*/X

Value exceeds Maximum Contaminant Level. Value above quantitation range

Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded

Page 9 of 10

RPDLimit

10.5

0

Analyte detected below quantitation limits RPD outside accepted recovery limits

Not Detected at the Reporting Limit Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

RPDLimit

RPDLimit

%RPD

%RPD

1201047

09-Feb-12

Qual

Qual

Client:

Animas Environmental Services

Project:

Enterprise Products Olmer #4

Sample	ID	5ML-R	В
--------	----	-------	---

SampType: MBLK

TestCode: EPA Method 8021B: Volatiles

PBW

Batch ID: R221

RunNo: 221

Client ID:

Prep Date:

Benzene

Analysis Date: 1/4/2012

SeqNo: 6889

Units: µg/L **HighLimit**

Analyte

PQL SPK value SPK Ref Val %REC LowLimit ND 1.0

Toluene Ethylbenzene Xylenes, Total ND 1.0 ND 1.0 ND 2.0

19

96.1

76.5 115

Sample ID 100NG BTEX LCS

Surr: 4-Bromofluorobenzene

SampType: LCS

TestCode: EPA Method 8021B: Volatiles

Client ID: LCSW

Batch ID: R221

RunNo: 221

Prep Date:

Analysis Date: 1/4/2012

57

20

SeqNo: 6892

Units: µg/L **HighLimit**

120

120

120

121

115

PQL SPK value SPK Ref Val %REC LowLimit Analyte Result Benzene 18 1.0 20.00 0 91.9 80 Toluene 80 19 1.0 20.00 0 95.7 80 Ethylbenzene 19 95.0 1.0 20.00 0

2.0

20.00

60.00

20.00

Xylenes, Total Surr: 4-Bromofluorobenzene

Sample ID 1201047-003A MS

SampType: MS

TestCode: EPA Method 8021B: Volatiles

78.6

76.5

95.5

98.6

Client ID: MVV-2	batc	HID: KZ	21	-	Kunivo: 2	21					
Prep Date:	Analysis [Date: 1/	4/2012	5	SeqNo: 6	893	Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	17	1.0	20.00	0.6476	83.4	76.6	119				
Toluene	17	1.0	20.00	0	83.9	77.3	118				
Ethylbenzene	17	1.0	20.00	0	82.5	76.6	114				
Xylenes, Total	50	2.0	60.00	0	83.7	82	113				
Surr: 4-Bromofluorobenzene	20		20.00		101	76.5	115				

Sample ID 1201047-003A MSD SampType: MSD Client ID: MW-2 Batch ID: R221 TestCode: EPA Method 8021B: Volatiles

PunNo: 224

Ciletit ID. MYV-Z	Date	IIID. KZ	21		MINO. Z	21					
Prep Date:	Analysis [Date: 1/	4/2012	8	SeqNo: 6	894	Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	17	1.0	20.00	0.6476	81.1	76.6	119	2.72	16.4		7
Toluene	16	1.0	20.00	0	82.3	77.3	118	1.94	13.9		
Ethylbenzene	16	1.0	20.00	0	81.8	76.6	114	0.887	13.5		
Xylenes, Total	50	2.0	60.00	0	83.3	82	113	0.484	12.9		
Surr: 4-Bromofluorobenzene	20		20.00		100	76.5	115	0	0		

Oualifiers:

- */X Value exceeds Maximum Contaminant Level.
 - Value above quantitation range
- Analyte detected below quantitation limits
- RPD outside accepted recovery limits

- Analyte detected in the associated Method Blank B
- H Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND Reporting Detection Limit
- Page 10 of 10

1 4	nain-	ot-Cu	Chain-or-Custody Record	TOTAL COURSE	ď.			I	F	ENVIRONMENTAL	ENTAL	
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				Project Name:				WW	w halle	O .		
Mailing	Address	624 E Co	Mailing Address 624 E Comanche Farmington NM	Enterprise Pro	ducts Olmer #		49	4901 Hawkins NE -	NE -	Albuquerque, NM 87109	109	•
		87401		Project #:			7	Tel. 505-345-3975	3975	Fax 505-345-4107		
Phone #:		505-564-2281	2281	AES 110802					An	Analysis Request		
email or Fax#	Fax#:	505-324-2022	2022	Project Manager:	jer:		j					
QA/QC Package	ackage:						,					
□ Standard	dard		☐ Level 4 (Full Validation)	Tami Ross			·					
Accreditation:	tation:	2		Sampler:	Nathan Willis		3015					N)
	1	D Oule					6) (0.0				Of
	(aypa)			William St. March				300				25 (
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	ple and and our group the in parameters and properties a year.	BTEX 802 TPH (C6 -	Chlorides			<i>t</i> · .	Air Bubble
		H ₂ O	Trip Blank	2 - 40 mL glass	НΩ	1	_					1
1-12-1	1529	Н₂О	MW - 1	6 - 40 mL glass	5 - HCI 1 - Non	N.	X					
1	8.59	Н₂О	MW - 2	6 - 40 mL glass	5- HΩ	W	X					- 1
	七ク	H ₂ O	MW-3	6 - 40 mL glass	5-HCI 1-Non	4	×					- 1
)	LS HI	H ₂ O	MW - 4	6 - 40 mL glass	5 - HCl 1 - Non	Ŋ	×					
-29-11	HERI	H ₂ O	Waste Water	1 - 500 mL plastic	Non	5		×				
	1	1	TELP BANK	VCA-TO-	2	1	*					
			21/11/12									1
							+					
							-					
29-11	Time:	Relinquished by:	ad by: Will will be	Received by:	Whoten		Remarks:	Bill Bill	す	Enterprise	Francis	
Date:	Time:	Relinquished by:	wished by:	Received by:					4			
	-											-