

AE Order Number Banner

Report Description

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



App Number: pJK1424832159

3RP - 1011
ENTERPRISE PRODUCTS OPERATING, LLC

3R-1011

Release Report/ General Correspondence

Enterprise SJ

Date: 2012





March 27, 2012

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

> Howell #1 Pipeline Release Report San Juan County, New Mexico

Dear Mr. Dailey:

RE:

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

> Durango, Colorado 970-403-3274

RCVD APR 9 11.2 OIL CONS. DIV. DIST. 8

On February 22, 2012, Animas Environmental Services, LLC (AES) completed a release assessment for a release of natural gas condensate from Enterprise Products Company (Enterprise) 4-inch diameter Howell #1 pipeline. The release is located approximately 3.5 miles northeast of Navajo Dam Community, San Juan County, New Mexico. The release resulted from corrosion in the pipeline.

1.0 Site Information

1.1 Location

Location - SW¼ SW¼, Section 3, T30N, R8W, San Juan County, New Mexico Latitude/Longitude - N36.83609 and W107.66946, respectively Surface Owner – Federal (Bureau of Land Management)

Figure 1 - Topographic Site Location Map

Figure 2 - Aerial Site Map

Figure 3- Excavation Sample Locations and Analytical Results, February 2012

1.2 NMOCD Ranking

Prior to site work, the New Mexico Oil Conservation Division (NMOCD) database was reviewed, and no records for nearby well locations with similar surface elevations were found to assist in determining NMOCD ranking. Additionally, the New Mexico Office of the State Engineer (NMOSE) database was reviewed for nearby private domestic water wells, and no nearby water well records were located.

Once on-site, Tom Long of AES assessed the NMOCD ranking criteria using topographical interpretation, Global Position System (GPS) elevation readings, and visual reconnaissance. Based on an elevation differential between the release location (6,224 feet above mean sea level (amsl)) and Simon Canyon Wash (5,797 feet amsl),

groundwater is estimated to be greater than 100 feet below ground surface (bgs). Distance to the nearest surface water body, Simon Canyon Wash, is approximately 1,200 feet east of the release location. No domestic or private water sources were identified within 1,000 feet of the location. The location was assessed a NMOCD ranking score of zero.

1.3 Assessment and Mitigation

On February 21 and 22, 2012, Enterprise contractor West States Energy Contractors (WSEC) completed an excavation around the Howell #1 pipeline. Upon inspection, Enterprise determined that the release resulted from corrosion within the pipeline, and it was immediately repaired.

WSEC also expanded the excavation at the direction of AES to remove petroleum hydrocarbon contaminated soil. AES collected field screening samples to measure the remaining soil concentrations present along the walls and base of the excavation as it was completed. Bedrock was encountered between 2 and 4 feet bgs at various locations within the excavation.

The final excavation measured approximately 75 feet by 22 feet (1,175 square feet) with an average 3 feet depth. Bedrock was encountered at approximately 2 to 4 feet bgs along the east and west side walls, and excavation was terminated at the depth of bedrock. Approximately 160 cubic yards of hydrocarbon contaminated soil were transported by WSEC to Industrial Ecosystems, Inc. (IEI), near Aztec, New Mexico, for disposal. Following the collection of soil confirmation samples, the excavation was backfilled with approximately 192 cubic yards of clean fill. A photograph log and waste manifests are attached.

2.0 Soil Sampling

Prior to backfilling the excavation, AES personnel collected six composite soil samples (SC-1 through and SC-6) from the southern portion of the excavation for field screening and laboratory analysis. No soil samples were collected from the northern portion of the excavation because the excavation was inadvertently backfilled before samples could be collected. Soil sample locations are included on Figure 3.

2.1 Field Screening

2.1.1 Volatile Organic Compounds

Field-screening for volatile organic compounds (VOC) vapors was conducted with a photo-ionization detector (PID) organic vapor meter (OVM). Before beginning field

screening, the PID-OVM was first calibrated with 100 parts per million (ppm) isobutylene gas.

2.2 Laboratory Analyses

Six composite soil samples (SC-1 through and SC-6) were collected for laboratory analysis from approximately 4 feet bgs at the base of the excavation and from the side walls of the excavation. The soil samples collected for laboratory analysis were placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto a sample chain of custody record. Samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall), in Albuquerque, New Mexico. Soil samples were laboratory analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per U.S. Environmental Protection Agency (USEPA) Method 8021B;
- TPH for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015B.

2.3 Soil Field Screening and Laboratory Analytical Results

Soil field screening results showed that VOC vapor concentrations ranged from 92 ppm in SC-1 up to 2,463 ppm in SC-1. Soil analytical results showed that concentrations for benzene were below the NMOCD action level of 10 mg/kg. All soil samples analyzed for total BTEX results were reported below the NMOCD action level of 50 mg/kg, except for SC-1 with a concentration of 938.2 mg/kg. All soil TPH concetrations were below the NMOCD action level of 5,000 mg/kg, except for SC-1 with a combined concentration of 6,180 mg/kg. Soil field screening results and laboratory analytical results for benzene, total BTEX and TPH for soil samples SC-1 through SC-6 are included in Table 1 and on Figure 3. Laboratory analytical reports are attached.

Table 1. Soil Field Screening and Laboratory Analytical Results Howell #1 February 2012 Release

			VOCs			TPH-	TPH-	
		Depth	OVM	Benzene	BTEX	GRO	DRO	
Sample ID	Date	(ft bgs)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
NMOC	D Action L	evel	100	10	50 5,000*			
SC-1	2/21/12	3	2,463	8.2	938.2	5,900	380	
SC-2	2/22/12	NA	228	<0.049	0.95	<10	6.0	
SC-3	2/22/12	NA	281	<0.050	1.78	<9.7	21	
SC-4	2/22/12	NA	287	<0.049	5.74	29	25	
SC-5	2/22/12	NA	213	0.055	8.97	48	37	
SC-6	2/22/12	NA	92	<0.049	0.407	<10	<4.9	

Mr. Aaron Dailey Howell #1 Release Report March 27, 2012 Page 4 of 5

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

3.0 Conclusions and Recommendations

AES conducted a release assessment for the Howell #1 on February 21 and 22, 2012. VOC vapor concentrations exceeded the NMOCD action level of 100 ppm in SC-1 through SC-5, with the highest concentration noted at SC-1 (2,463 ppm). Soil total BTEX and TPH concentrations also exceeded the NMOCD action level in SC-1 with 938.2 mg/kg total BTEX and 6,280 mg/kg TPH as GRO/DRO. No soil samples were collected from the northern portion of the excavation because the excavation was inadvertently backfilled before samples could be collected. Therefore, petroleum hydrocarbon impacted soils may exist and exceed NMOCD actions levels in the northern portion of the former excavation.

AES recommends the following:

Thomas J. Long

- Conduct assessment of northern portion of the former excavation area to determine residual contaminant concentrations of benzene, total BTEX, and TPH.
- 2. Further assess and mitigate the release in the area of SC-1.

AES will prepare and submit a workplan for the proposed work identified above. If you have any questions about this report or site conditions, please do not hesitate to contact me or Ross Kennemer at (505) 564-2281.

Sincerely,

Thomas Long

Project Manager

Elizabeth McNally, P.E.

Elizabeth V MiNdly

Mr. Aaron Dailey Howell #1 Release Report March 27, 2012 Page 5 of 5

Attachments:

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map

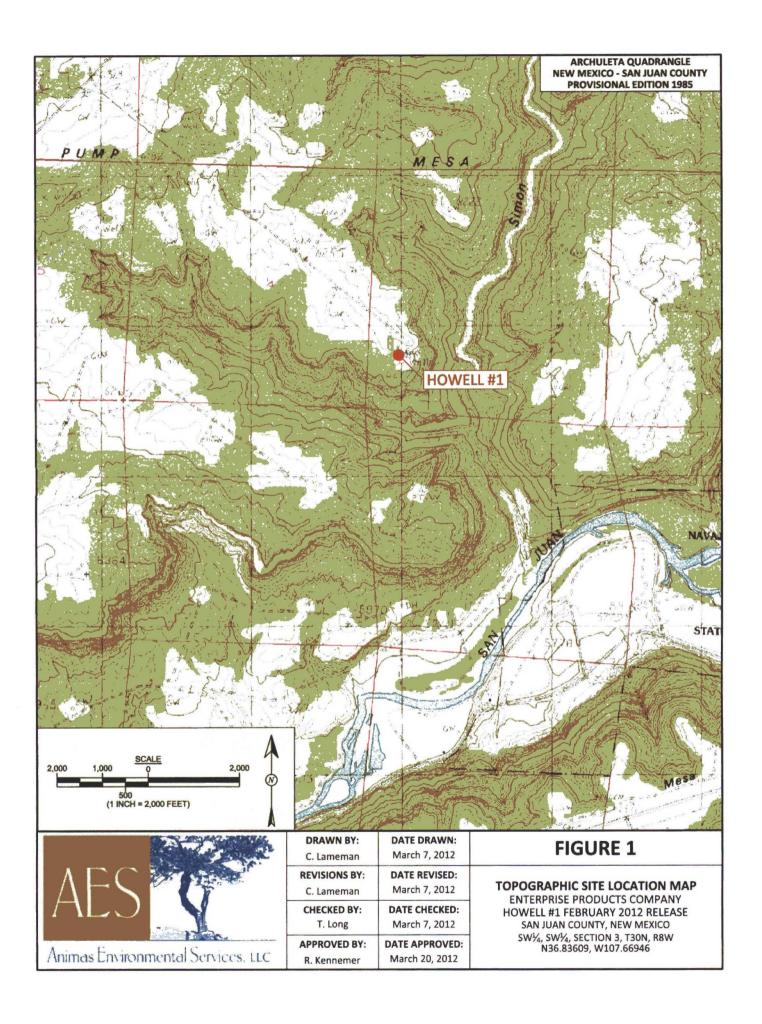
Figure 3. Excavation Sample Locations and Analytical Results, February 2012

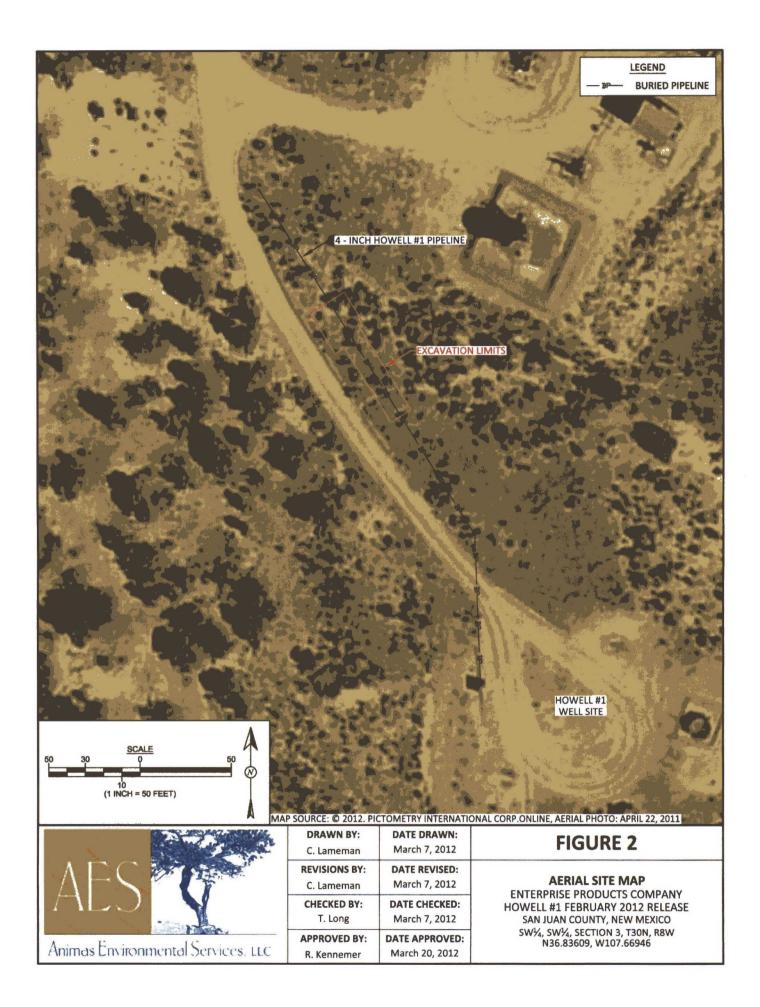
Photograph Log

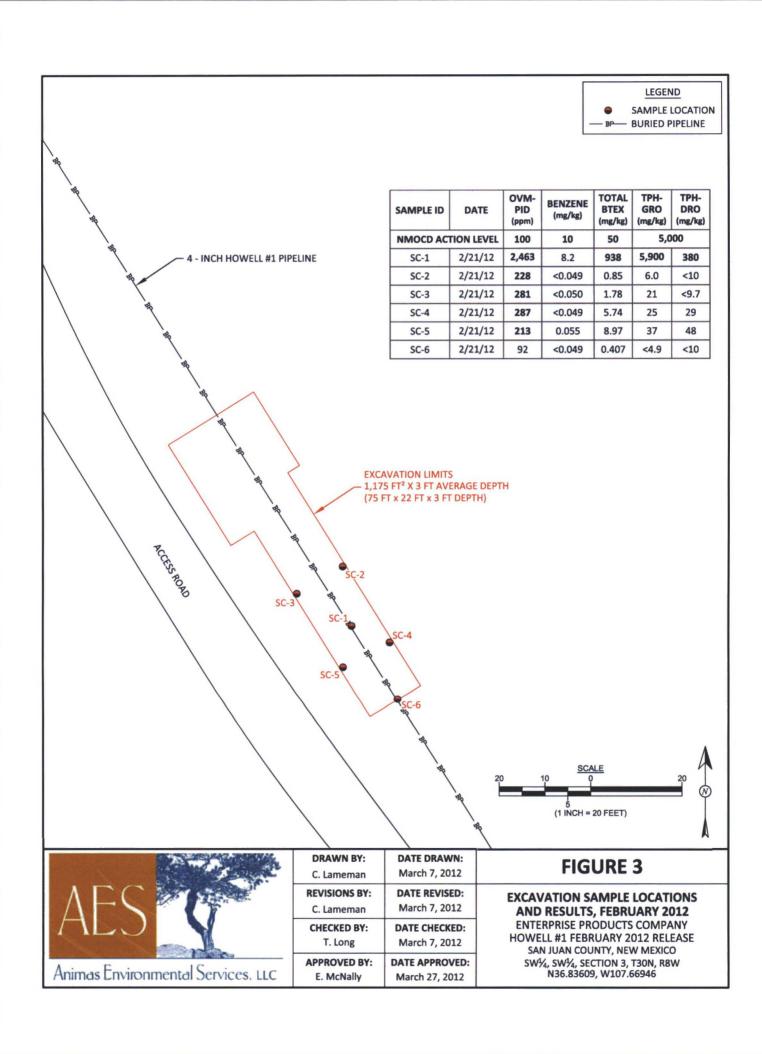
Bills of Lading (IEI C-138)

Laboratory Analytical Reports (Hall 1202822)

S:\Animas 2000\2012 Projects\Enterprise\Howell #1\Release Report 032712.docx







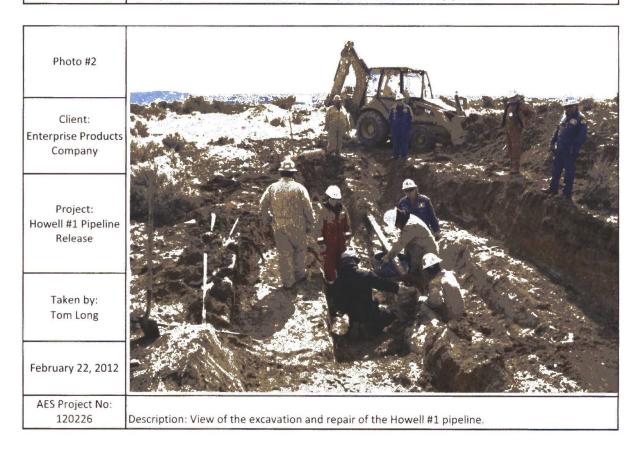
Client:
Enterprise Products
Company

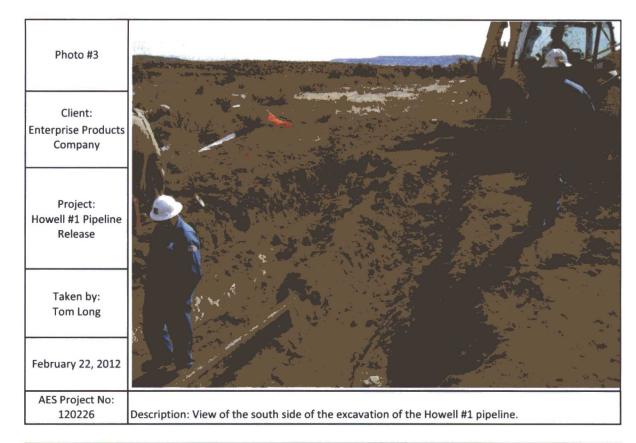
Project:
Howell #1 Pipeline
Release

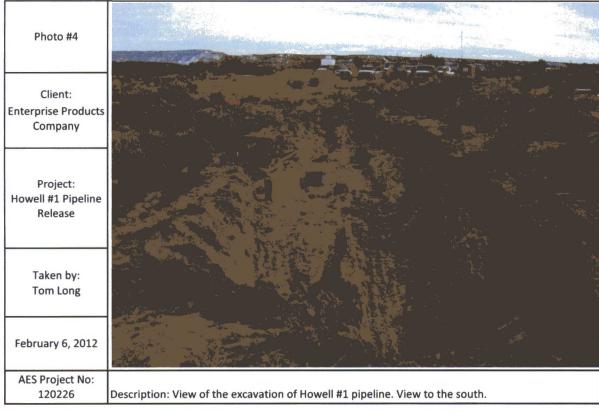
Taken by:
Tom Long

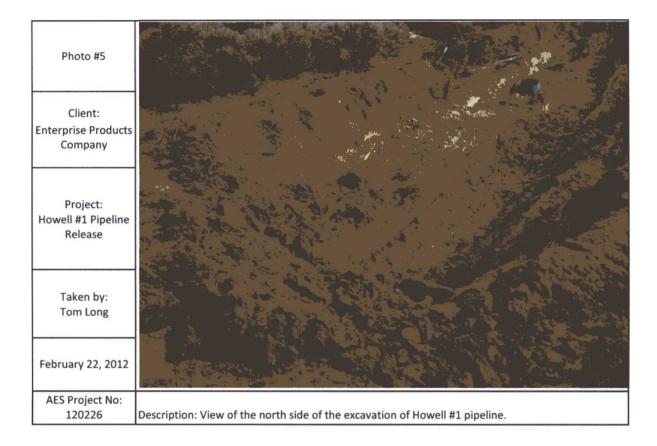
February 21, 2012

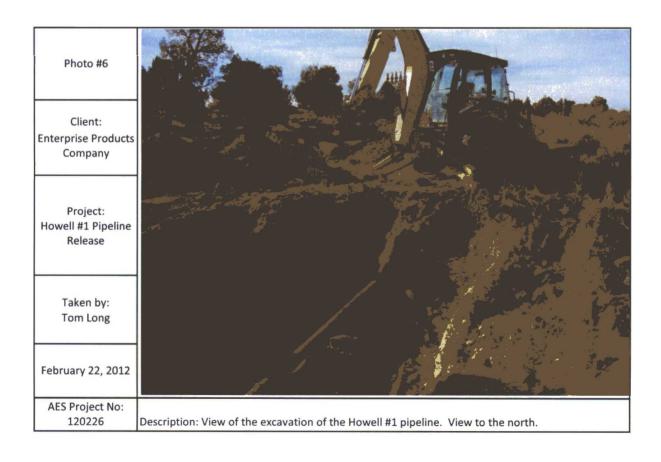
AES Project No:
120226 Description: View of the excavation and repair of the Howell #1 pipeline.

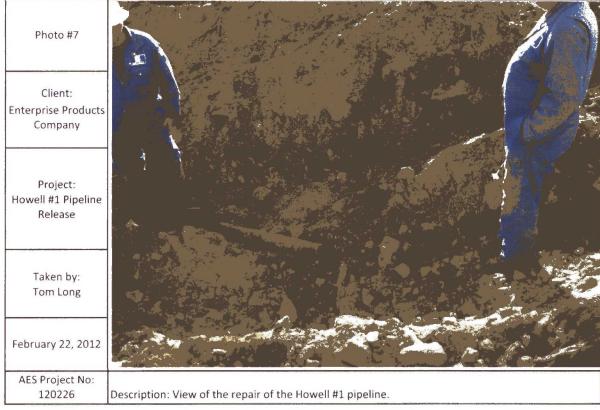


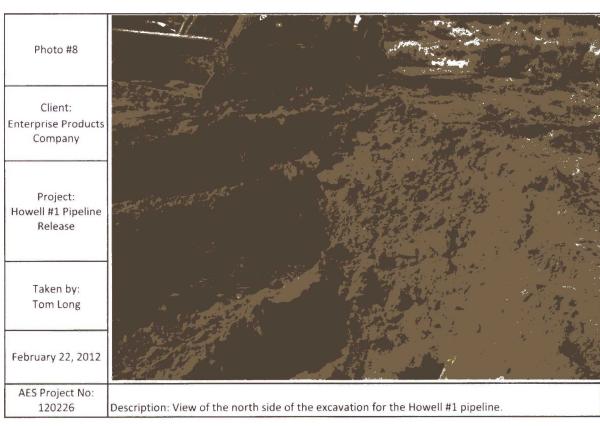












District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
Y. Rio Brazos Road, Aztec, NM 87410
strict IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-138 Revised 08/01/11

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

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

REQUEST FOR ATTROVAL TO ACCELT SOLID WASTE
1. Generator Name and Address: Enterprise Products Operating, L.P.
2. Originating Site:
Howell #1 Well tie line G⊃ <z⊢<< td=""></z⊢<<>
3. Location of Material (Street Address, City, State or ULSTR): Section 3, T30N, R 8W, (36 50.142'N 107 40.160'W) NMPM, San Juan County, NM
4. Source and Description of Waste:
Source: Howell #1 natural gas well tie pipeline Description: Exempt condensate impacted soil from a natural gas line leak at this location
Estimated Volume 50 yd3 / bbls Known Volume (to be entered by the operator at the end of the haul) vd3 bbls
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS
I, representative or authorized agent forEnterprise Products Operating do hereby
Generator Signature certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)
RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. **Operator Use Only: Waste Acceptance Frequency** Monthly** Meekly** Per Load**
RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)
GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS
I,, representative forEnterprise Products Operating authorize JFJ/IEI to complete
Generator Signature the required testing/sign the Generator Waste Testing Certification.
I, M More representative for IET do hereby certify that
Representative/Agent Signature
representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results
of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of
 19.15.36 NMAC. 5. Transporter: West States Contractors, Contact Gary Maestas (505) 215-2744
OCD Permitted Surface Waste Management Facility
Name and Facility Permit #: JFJ Landfarm/Industrial Ecosystems, Inc. * Permit #: NM 01-0010B
Address of Facility: # 49 CR 3150 Aztec, NM 87410 (
Method of Treatment and/or Disposal: Evaporation Injection Treating Plant Landfarm Landfill Other
Waste Acceptance Status: DENIED (Must Be Maintained As Permanent Record
11 44
SIGNATURE: TITLE: TITLE: DATE: 2/01/10
Surface Waste Management Facility Automized Agent 505-632-1782
2/2/



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

February 29, 2012

Ross Kennemer

Animas Environmental Services

624 East Comanche

Farmington, NM 87401

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

RE: Enterprise Howell #1

OrderNo.: 1202822

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory received 6 sample(s) on 2/24/2012 for the analyses presented in the following report.

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

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1202822

Date Reported: 2/29/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Enterprise Howell #1

Lab ID: 1202822-001

Client Sample ID: SC-1

Collection Date: 2/21/2012 2:15:00 PM

Received Date: 2/24/2012 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS					Analyst: JMP
Diesel Range Organics (DRO)	380	50		mg/Kg	5	2/27/2012 10:12:16 AM
Surr: DNOP	89.8	77.4-131		%REC	5	2/27/2012 10:12:16 AM
EPA METHOD 8015B: GASOLINE RA	ANGE					Analyst: RAA
Gasoline Range Organics (GRO)	5,900	970		mg/Kg	200	2/28/2012 3:03:54 PM
Surr: BFB	147	69.7-121	S	%REC	200	2/28/2012 3:03:54 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	8.2	0.97		mg/Kg	20	2/28/2012 1:31:55 AM
Toluene	260	9.7		mg/Kg	200	2/28/2012 3:03:54 PM
Ethylbenzene	60	0.97		mg/Kg	20	2/28/2012 1:31:55 AM
Xylenes, Total	610	19		mg/Kg	200	2/28/2012 3:03:54 PM
Surr: 4-Bromofluorobenzene	192	85.3-139	S	%REC	20	2/28/2012 1:31:55 AM

Matrix: SOIL

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

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Lab Order 1202822

Date Reported: 2/29/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Enterprise Howell #1

Lab ID: 1202822-002

Client Sample ID: SC-2

Collection Date: 2/22/2012 10:42:00 AM

Received Date: 2/24/2012 10:05:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	2/25/2012 4:12:25 PM
Surr: DNOP	89.5	77.4-131	%REC	1	2/25/2012 4:12:25 PM
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	6.0	4.9	mg/Kg	1	2/28/2012 4:30:15 PM
Surr: BFB	109	69.7-121	%REC	1	2/28/2012 4:30:15 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.049	mg/Kg	1	2/28/2012 4:30:15 PM
Toluene	0.10	0.049	mg/Kg	1	2/28/2012 4:30:15 PM
Ethylbenzene	ND	0.049	mg/Kg	1	2/28/2012 4:30:15 PM
Xylenes, Total	0.75	0.097	mg/Kg	1	2/28/2012 4:30:15 PM
Surr: 4-Bromofluorobenzene	107	85.3-139	%REC	1	2/28/2012 4:30:15 PM

Matrix: SOIL

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

Lab Order 1202822

Date Reported: 2/29/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Enterprise Howell #1

Lab ID: 1202822-003

Client Sample ID: SC-3

Collection Date: 2/22/2012 10:47:00 AM

Received Date: 2/24/2012 10:05:00 AM

Analyses	Result	RL C	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN	GE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	2/25/2012 4:33:41 PM
Surr: DNOP	93.5	77.4-131	%REC	1	2/25/2012 4:33:41 PM
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	21	5.0	mg/Kg	1	2/28/2012 2:58:18 AM
Surr: BFB	178	69.7-121	S %REC	1	2/28/2012 2:58:18 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.050	mg/Kg	1	2/28/2012 2:58:18 AM
Toluene	0.18	0.050	mg/Kg	1	2/28/2012 2:58:18 AM
Ethylbenzene	ND	0.050	mg/Kg	1	2/28/2012 2:58:18 AM
Xylenes, Total	1.5	0.099	mg/Kg	1	2/28/2012 2:58:18 AM
Surr: 4-Bromofluorobenzene	115	85.3-139	%REC	1	2/28/2012 2:58:18 AM

Matrix: SOIL

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

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Lab Order 1202822

Date Reported: 2/29/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Enterprise Howell #1

Lab ID: 1202822-004

Client Sample ID: SC-4

Collection Date: 2/22/2012 11:25:00 AM

Received Date: 2/24/2012 10:05:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS					Analyst: JMP
Diesel Range Organics (DRO)	29	9.6		mg/Kg	1	2/27/2012 2:30:33 PM
Surr: DNOP	90.3	77.4-131		%REC	1	2/27/2012 2:30:33 PM
EPA METHOD 8015B: GASOLINE RA	NGE					Analyst: RAA
Gasoline Range Organics (GRO)	25	4.9		mg/Kg	1	2/28/2012 3:27:05 AM
Surr: BFB	183	69.7-121	S	%REC	1	2/28/2012 3:27:05 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.049		mg/Kg	1	2/28/2012 3:27:05 AM
Toluene	0.92	0.049		mg/Kg	1	2/28/2012 3:27:05 AM
Ethylbenzene	0.27	0.049		mg/Kg	1	2/28/2012 3:27:05 AM
Xylenes, Total	4.5	0.097		mg/Kg	1	2/28/2012 3:27:05 AM
Surr: 4-Bromofluorobenzene	122	85.3-139		%REC	1	2/28/2012 3:27:05 AM

Matrix: SOIL

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

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Lab Order 1202822

Date Reported: 2/29/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Enterprise Howell #1

Lab ID: 1202822-005

Client Sample ID: SC-5

Collection Date: 2/22/2012 11:28:00 AM

Received Date: 2/24/2012 10:05:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE ORGANICS					Analyst: JMP
Diesel Range Organics (DRO)	48	10		mg/Kg	1	2/27/2012 2:52:05 PM
Surr: DNOP	94.4	77.4-131		%REC	1	2/27/2012 2:52:05 PM
EPA METHOD 8015B: GASOLINE R	ANGE					Analyst: RAA
Gasoline Range Organics (GRO)	37	4.7		mg/Kg	1	2/28/2012 3:55:50 AM
Surr: BFB	221	69.7-121	S	%REC	1	2/28/2012 3:55:50 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	0.055	0.047		mg/Kg	1	2/28/2012 3:55:50 AM
Toluene	1.4	0.047		mg/Kg	1	2/28/2012 3:55:50 AM
Ethylbenzene	0.41	0.047		mg/Kg	1	2/28/2012 3:55:50 AM
Xylenes, Total	7.1	0.093		mg/Kg	1	2/28/2012 3:55:50 AM
Surr: 4-Bromofluorobenzene	124	85.3-139		%REC	1	2/28/2012 3:55:50 AM

Matrix: SOIL

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

Lab Order 1202822

Date Reported: 2/29/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Enterprise Howell #1

Lab ID: 1202822-006 Client Sample ID: SC-6

Collection Date: 2/22/2012 11:55:00 AM

Received Date: 2/24/2012 10:05:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	2/25/2012 5:16:16 PM
Surr: DNOP	98.4	77.4-131	%REC	1	2/25/2012 5:16:16 PM
EPA METHOD 8015B: GASOLINE RA	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	2/28/2012 4:24:34 AM
Surr: BFB	116	69.7-121	%REC	1	2/28/2012 4:24:34 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.049	mg/Kg	1	2/28/2012 5:27:43 PM
Toluene	ND	0.049	mg/Kg	1	2/28/2012 5:27:43 PM
Ethylbenzene	ND	0.049	mg/Kg	1	2/28/2012 5:27:43 PM
Xylenes, Total	0.26	0.099	mg/Kg	1	2/28/2012 5:27:43 PM
Surr: 4-Bromofluorobenzene	106	85.3-139	%REC	1	2/28/2012 5:27:43 PM

Matrix: SOIL

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

Value above quantitation range

Analyte detected below quantitation limits

RPD outside accepted recovery limits

Spike Recovery outside accepted recovery limits

В Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Reporting Detection Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1202822

29-Feb-12

Client:

Animas Environmental Services

Project:	Enterprise	Howell #	-1								
Sample ID MI	IB-842	SampT	уре: М	BLK	Tes	tCode: EF	A Method	8015B: Diese	el Range C	Organics	
Client ID: PE	BS	Batch	ID: 84	2	F	RunNo: 1	128				
Prep Date: 2	2/24/2012	Analysis D	ate: 2/	25/2012	8	SeqNo: 3	1991	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Orga	anics (DRO)	ND	10								
Surr: DNOP		9.1		10.00		91.4	77.4	131			
Sample ID LO	CS-842	SampT	ype: LC	s	Tes	tCode: EF	PA Method	8015B: Diese	el Range C	Organics	
Client ID: LC	css	Batch	1D: 84	2	F	RunNo: 1	128				
Prep Date: 2	2/24/2012	Analysis D	ate: 2/	25/2012	8	SeqNo: 3	1992	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Orga	anics (DRO)	44	10	50.00	0	87.7	62.7	139			
Surr: DNOP		4.5		5.000		90.4	77.4	131			
Sample ID 12	202817-001AMS	SampT	ype: MS	3	Tes	tCode: EF	A Method	8015B: Diese	el Range C	Organics	
) F								
Client ID: Ba	atchQC		ID: 84		F	RunNo: 1	128				
Client ID: Ba	atchQC		ID: 84	2		RunNo: 11		Units: mg/k	ζg		
	atchQC	Batch	ID: 84	2 25/2012		SeqNo: 31		Units: mg/k HighLimit	(g %RPD	RPDLimit	Qual
Prep Date: 2	atchQC 2/24/2012	Batch Analysis D	n ID: 84 ate: 2 /	2 25/2012	5	SeqNo: 31	1995		•	RPDLimit	Qual
Prep Date: 2	atchQC 2/24/2012	Batch Analysis D Result	n ID: 84 Pate: 2 /	2 25/2012 SPK value	SPK Ref Val	SeqNo: 3°	1995 LowLimit	HighLimit	•	RPDLimit	Qual
Prep Date: 2 Analyte Diesel Range Orga Surr: DNOP	atchQC 2/24/2012	Batch Analysis D Result 47 4.8	n ID: 84 Pate: 2 /	25/2012 SPK value 50.86 5.086	SPK Ref Val	%REC 92.3 94.1	1995 LowLimit 57.2 77.4	HighLimit 146	%RPD		Qual
Prep Date: 2 Analyte Diesel Range Orga Surr: DNOP Sample ID 12	atchQC 2/24/2012 vanics (DRO)	Batch Analysis D Result 47 4.8 SampT	PQL 10	2 25/2012 SPK value 50.86 5.086	SPK Ref Val 0	%REC 92.3 94.1	1995 LowLimit 57.2 77.4 PA Method	HighLimit 146 131	%RPD		Qual
Prep Date: 2 Analyte Diesel Range Orga Surr: DNOP Sample ID 12 Client ID: Ba	atchQC 2/24/2012 anics (DRO)	Batch Analysis D Result 47 4.8 SampT	PQL 10 Type: MS	2 25/2012 SPK value 50.86 5.086	SPK Ref Val 0 Tes	%REC 92.3 94.1	1995 LowLimit 57.2 77.4 PA Method 128	HighLimit 146 131	%RPD		Qual
Prep Date: 2 Analyte Diesel Range Orga Surr: DNOP Sample ID 12 Client ID: Ba	atchQC 2/24/2012 anics (DRO) 202817-001AMSD atchQC	Batch Analysis D Result 47 4.8 SampT Batch	PQL 10 Type: MS	2 25/2012 SPK value 50.86 5.086 SD 2 25/2012	SPK Ref Val 0 Tes	%REC 92.3 94.1 tCode: ER	1995 LowLimit 57.2 77.4 PA Method 128	HighLimit 146 131 8015B: Diese	%RPD		Qual

5.045

4.8

Qualifiers:

Surr: DNOP

94.6

77.4

131

^{*/}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

Holding times for preparation or analysis exceeded H

Not Detected at the Reporting Limit

Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1202822

29-Feb-12

Client:

Animas Environmental Services

Project:

Enterprise Howell #1

Sample ID MB-844

SampType: MBLK

TestCode: EPA Method 8015B: Gasoline Range

Client ID: PBS

Batch ID: 844

RunNo: 1157

Prep Date: 2/24/2012

Analysis Date: 2/27/2012

PQL

SeqNo: 33018

Units: mg/Kg

Analyte

Gasoline Range Organics (GRO)

ND 5.0 SPK value SPK Ref Val %REC LowLimit HighLimit

121

RPDLimit Qual

Surr: BFB

980

1,000

98.2

69.7

%RPD

Sample ID LCS-844

Client ID: LCSS

SampType: LCS Batch ID: 844

%REC

TestCode: EPA Method 8015B: Gasoline Range

Prep Date:

1,000

1,100

Result

RunNo: 1157

Analyte

2/24/2012

Analysis Date: 2/27/2012

SeqNo: 33022

Units: mg/Kg

121

Gasoline Range Organics (GRO)

PQL SPK value SPK Ref Val 27 5.0

25.00 1,000

107 98.5 104 69.7

LowLimit

HighLimit %RPD 133

RPDLimit Qual

Surr: BFB

Sample ID 1202813-001AMS

SampType: MS

TestCode: EPA Method 8015B: Gasoline Range

Client ID: **BatchQC**

Batch ID: 844

RunNo: 1157

Units: mg/Kg

Prep Date: Analyte

2/24/2012 Result

Analysis Date: 2/27/2012

23.41

936.3

SeqNo: 33023

%RPD **RPDLimit** Qual

Gasoline Range Organics (GRO) Surr: BFB

PQL 32 4.7

SPK value SPK Ref Val %REC LowLimit 9.893 95.9

HighLimit 85.4 147 121

Sample ID 1202813-001AMSD

SampType: MSD

TestCode: EPA Method 8015B: Gasoline Range

Client ID: **BatchQC** Batch ID: 844

RunNo: 1157

122

Prep Date: 2/24/2012

Analysis Date: 2/27/2012

SeqNo: 33024

Units: mg/Kg

34

SPK value SPK Ref Val 4.7 23.67

%REC LowLimit

HighLimit

%RPD

RPDLimit Qual 19.2

S

S

Gasoline Range Organics (GRO) Surr: BFB

947.0 1,200

9.893

103 130 85.4 69.7

69.7

147 121 5.85 0

0

Qualifiers:

- */X 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
- ND Not Detected at the Reporting Limit
- Reporting Detection Limit

Page 8 of 9

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1202822

29-Feb-12

Client:

Animas Environmental Services

Project:

Enterprise Howell #1

Sample ID MB-844	SampT	ype: ME	BLK	Tes	TestCode: EPA Method 8021B: Volatiles					
Client ID: PBS	Batch	ID: 84	4	F	RunNo: 1	157				
Prep Date: 2/24/2012	Analysis D	ate: 2/	27/2012	S	SeqNo: 3	3032	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		109	85.3	139			

Sample ID LCS-844	SampT	ype: LC	s	Tes	TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch	ID: 84	4	RunNo: 1157								
Prep Date: 2/24/2012	Analysis D	Analysis Date: 2/27/2012 SeqNo: 33036						Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	1.0	0.050	1.000	0	100	83.3	107					
Toluene	1.0	0.050	1.000	0	102	74.3	115					
Ethylbenzene	1.0	0.050	1.000	0	103	80.9	122					
Xylenes, Total	3.1	0.10	3.000	0	103	85.2	123					
Surr: 4-Bromofluorobenzene	1.1		1.000		112	85.3	139					

Sample ID 1202813-001A MS	SampTy	SampType: MS TestCode: EPA Method 8021B: Volatiles								
Client ID: BatchQC	Batch	ID: 844	4	F	RunNo: 1157					
Prep Date: 2/24/2012	Analysis Da	ate: 2/	27/2012	S	SeqNo: 3	3037	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.048	0.9506	0.2292	104	67.2	113			
Toluene	1.6	0.048	0.9506	0.6150	109	62.1	116			
Ethylbenzene	1.1	0.048	0.9506	0.06815	104	67.9	127			
Xylenes, Total	3.9	0.095	2.852	0.8944	105	60.6	134			
Surr: 4-Bromofluorobenzene	1.1		0.9506		116	85.3	139			

Sample ID 1202813-001A MSD SampType: MSD TestCode: EPA Method 8021B: Volatiles										
Client ID: BatchQC Batch ID: 844				RunNo: 1157						
Prep Date: 2/24/2012 Analysis Date: 2/27/2012			SeqNo: 33038			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.047	0.9461	0.2292	107	67.2	113	2.15	14.3	
Toluene	1.8	0.047	0.9461	0.6150	121	62.1	116	6.77	15.9	S
Ethylbenzene	1.1	0.047	0.9461	0.06815	108	67.9	127	2.53	14.4	
Xylenes, Total	4.2	0.095	2.838	0.8944	116	60.6	134	6.89	12.6	
Surr: 4-Bromofluorobenzene	1.1		0.9461		117	85.3	139	0	0	

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 9 of 9



Hall Environmental Analysis Laboratory 4901 Hawkins NE

Albuquerque, NM 87105 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Website: www.hallenvironmental.com Client Name: **Animas Environmental** Work Order Number: 1202822 Received by/date: Ashley Gallegos Logged By: 2/24/2012 10:05:00 AM Completed By: Ashley Gallegos 2/24/2012 12:02:14 PM Reviewed By: 2/24/12 Chain of Custody Not Present ✓ 1 Were seals intact? No Yes 🗸 Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In NA 4. Coolers are present? (see 19. for cooler specific information) No NA 5 Was an attempt made to cool the samples? 6. Were all samples received at a temperature of >0° C to 6.0°C NA 7. Sample(s) in proper container(s)? 8. Sufficient sample volume for indicated test(s)? 9. Are samples (except VOA and ONG) properly preserved? NA 10 Was preservative added to bottles? No Yes No VOA Vials ✔ 11 VOA vials have zero headspace? No 12. Were any sample containers received broken? No # of preserved 13. Does paperwork match bottle labels? No bottles checked (Note discrepancies on chain of custody) for pH: (<2 or >12 unless noted) 14. Are matrices correctly identified on Chain of Custody? No Adjusted? 15. Is it clear what analyses were requested? No 16. Were all holding times able to be met? (If no, notify customer for authorization.) Checked by: Special Handling (if applicable) 17. Was client notified of all discrepancies with this order? NA V Yes No Person Notified: Date: By Whom: Via: Phone eMail In Person Fax Regarding: Client Instructions: 18, Additional remarks: 19. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date 1.1 Good

Mailing Address: 624 E. Corranche Froject #: Project #: ANALYSIS LABORATO www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	L						
Mailing Address: 624 F. Corranche Froject Name. En Exprese Havel H.S. 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	HALL ENVIRONMENTAL ANALYSIS LABORATORY						
Project #: Tel. 505-345-3975 Fax 505-345-4107 Phone #: 505 - 564(- 2) 8 / Project #: Tel. 505-345-3975 Fax 505-345-4107 Analysis Request							
Project #: Tel. 505-345-3975 Fax 505-345-4107 Phone #: 505 - 564(- 2) 8 / Project #: Tel. 505-345-3975 Fax 505-345-4107 Analysis Request							
Phone #: 505 - 561(- 2) 81 email or Fax#: + long cannes couronnes of Coproject Manager: QA/QC Package: Ress V Analysis Request							
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EDD (Type) Date Time Matrix Sample Request ID Date Time Matrix S	A:- DL-1-						
2/2/12 1049 1 5C-3							
1047 SC-3 3 X X							
11/25 SC-4 4 4 4							
1128 36-5							
V 1155 V SC-6 V V LOX Y							
	-						
Date: Time: Relinquished by: Date Time Remarks: 0							
2/2012 2500 My for Christin Waller 7/23/12 1500 Bill to Enterprise							
Date: Time: Relinfuished by: Received by: Date Time 2/23/12 1547 Christian Value 2/241/2 1005							



www.animasenvironmental.com

November 15, 2012

Aaron Dailey Enterprise Products Company 614 Reilly Avenue Farmington, New Mexico 87401 624 E. Comanche Farmington, NM 87401 505-564-2281

> Durango, Colorado 970-403-3274

RE: Multiple Release Assessment Report Lateral 2B-24

San Juan County, New Mexico

Mr. Dailey:

RCVD NOV 29 '12 OIL CONS. DIV. DIST. 3

On August 6, 2012, Animas Environmental Services, LLC (AES) completed an assessment associated with three separate releases of natural gas from the Enterprise Products Company (Enterprise) Lateral 2B-24 4-inch diameter pipeline. The releases, which are located approximately 6.25 to 7 miles south of Bloomfield, San Juan County, New Mexico, resulted from pipeline leaks caused by corrosion.

1.0 Site Information

1.1 Locations

All locations are illustrated on Figure 1-Topographic Site Location Map.

Release #1

Location – NE¼ NE¼, Section 21, T28N, R10W, San Juan County, New Mexico Latitude/Longitude - N36.65287 and W107.89455, respectively Surface Owner – Federal (Bureau of Land Management) Figure 2a. Aerial Site Map Release #1

Release #2

Location – SE¼ NW¼, Section 22, T28N, R10W, San Juan County, New Mexico Latitude/Longitude - N36.64828 and W107.88367, respectively Surface Owner – Federal (Bureau of Land Management)
Figure 2b. Aerial Site Map Release #2



Release #3

Location – SW¼ NW¼, Section 22, T28N, R10W, San Juan County, New Mexico Latitude/Longitude - N36.65040 and W107.88930, respectively Surface Owner – Federal (Bureau of Land Management)
Figure 2c. Aerial Site Map Release #3

1.2 NMOCD Ranking

In accordance with the New Mexico Oil Conservation Division (NMOCD) *Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993) the release locations were each assigned a ranking score to establish release action levels. The ranking scores were obtained in part by reviewing available records of nearby oil/gas wells using the NMOCD online database. Additionally, the New Mexico Office of the State Engineer (NMOSE) database was reviewed for nearby water wells, and Google Earth and the New Mexico Tech Petroleum Recovery Research Center online mapping tool (http://ford.nmt.edu/react/project.html) were accessed to aid in the identification of downgradient surface water.

Release #1

No NMOCD documents were found to assist in determining the ranking score for Release #1. Based on site topography and elevation differentials between the release location and the nearest perennial water sources, depth to groundwater is estimated to be greater than 100 feet below ground surface (bgs). No registered water wells were reported to be located within 1,000 feet of the release area. A small unnamed ephemeral wash is located approximately 400 feet east of Release #1, and a larger unnamed ephemeral wash is located approximately 630 feet to the northwest. Based on this information, Release #1 was assessed a ranking score of 10.

Release #2

No NMOCD documents were found to assist in determining the ranking score for Release #2. Based on site topography and elevation differentials between the release location and the nearest perennial water sources, depth to groundwater is estimated to be greater than 100 feet bgs. No registered water wells were reported to be located within 1,000 feet of the release area. Unnamed ephemeral washes are located approximately 50 feet and 250 feet west and approximately 520 feet east of Release #2. Based on this information, Release #2 was assessed a ranking score of 20.

Release #3

A C-144 form dated August 2007 for the Davidson Gas Com H #1F well located approximately 200 feet northeast of Release #3 reported the depth to groundwater as greater than 100 feet bgs. No registered water wells were reported to be located within 1,000 feet of the release area. Unnamed ephemeral washes are also located

approximately 90 feet northwest and 550 feet southeast of Release #3. Based on this information, Release #3 was assessed a ranking score of 20.

1.3 Assessment and Mitigation

On August 6, 2012, Enterprise contractors completed two excavations (Release #1 and Release #2) along the Lateral 2B-24 pipeline and determined that the releases were the result of pipeline leaks caused by corrosion. A third release area was identified (Release #3) and assessed with the installation of six soil borings. AES collected soil samples for field screening and laboratory analysis; a total of 10 soil samples were collected from the excavation at Release #1, a total of 14 samples from the excavation at Release #2, and 2 samples from the soil borings at Release #3.

The final excavation dimensions for Release #1 measured approximately 44 feet by 12 feet by 6.75 feet deep. Additionally, an area of surface staining approximately 1 foot wide by 75 feet long was observed adjacent to the north side of the excavation at Release #1. The final excavation dimensions for Release #2 measured 74 feet by 10 feet by 5 feet deep. The six soil borings installed in the vicinity of Release #3 were each terminated at sandstone. Soil boring total depths ranged from 0.5 feet bgs to 2.5 bgs.

Soil sample locations are included on Figures 3a, 3b, and 3c, and a photograph log is attached.

2.0 Soil Sampling

Release #1

AES personnel collected eight 5-point composite soil samples (SC-1 through SC-8) from the excavation base and sidewalls of Release #1 for field screening and laboratory analysis. Soil samples SC-1 through SC-6 were collected from the sidewalls of the excavation from 0 to 6.75 feet bgs. SC-7 and SC-8 were collected from the excavation base at depths of 6.75 feet. Additionally, AES collected two 5-point composite soil samples (SC-9 and SC-10) at depths of 0.25 feet bgs from the area of surface staining adjacent to the release area.

Release #2

AES personnel collected 14 5-point composite soil samples (SC-1 through SC-14) from the excavation base and sidewalls of Release #2 for field screening and laboratory analysis. Soil samples SC-1 through SC-10 were collected from the sidewalls of the excavation from 0 to 5 feet bgs; and SC-11 through SC-14 were collected from the excavation base at depths of 5 feet bgs.

Release #3

AES personnel collected a total of 11 soil samples for field screening from the six soil borings installed in the vicinity of Release #3. Additionally, two 5-point composite soil samples (SC-1 and SC-2) were collected for field screening and laboratory analysis. Soil sample SC-1 is a composite of SB-2 through SB-6 at 1 foot bgs, and SC-2 is a composite of SB-2 through SB-6 at total depth.

2.1 Field Screening

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

2.2 Laboratory Analyses

A total of 26 soil samples (SC-1 through SC-10 for Release #1, SC-1 through SC-14 for Release #2, and SC-1 and SC-2 for Release #3) were collected for laboratory analysis and were placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto a sample chain of custody record. Samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall), in Albuquerque, New Mexico. Soil samples were laboratory analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per U.S. Environmental Protection Agency (USEPA) Method 8021B;
- Total petroleum hydrocarbons (TPH) for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015B.

2.3 Field Screening and Laboratory Analytical Results

Release #1

Soil field screening results showed that VOC concentrations were 0.0 ppm in each soil sample collected from the Release #1 area. Soil analytical results from SC-1 through SC-10 showed that benzene and total BTEX concentrations were below laboratory detection limits. TPH concentrations were below laboratory detection limits in all samples, except for SC-9 with 120 mg/kg DRO.

Release #2

Field screening VOC concentrations in the samples collected from Release #2 ranged from 0.0 ppm up to 53.6 ppm in SC-1. Soil analytical results from SC-1 through SC-14 showed that benzene and total BTEX concentrations were below laboratory detection limits. TPH concentrations were below laboratory detection limits in all samples, except for SC-2 (170 mg/kg DRO), SC-5 (12 mg/kg DRO), and SC-6 (35 mg/kg DRO).

Release #3

The VOC concentration was 0.0 ppm in each of the samples collected from the soil borings and 5-point composite samples for Release #3. Soil analytical results from SC-1 and SC-2 showed that benzene, total BTEX, and TPH concentrations were below laboratory detection limits.

Laboratory analytical results are included in Table 1 and on Figures 3a, 3b, and 3c. Laboratory analytical reports are attached.

Table 1. Soil Field Screening and Laboratory Analytical Results Lateral 2B-24 Multiple Release Assessment, August 2012

	Lateral 2B-24 Multiple Release Assessment, August 2012								
				VOCs		Total	TPH-	TPH-	
Release	Sample	Sample	Depth	OVM	Benzene	BTEX	GRO	DRO	
ID	ID	Date	(ft)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
		NMOCD	Action Level	100	10	50	1,000*		
	SC-1	8/6/12	0 to 6.75	0.0	<0.047	<0.236	<4.7	<10	
	SC-2	8/6/12	0 to 6.75	0.0	<0.048	<0.24	<4.8	<9.8	
	SC-3	8/6/12	0 to 6.75	0.0	<0.049	<0.246	<4.9	<10	
	SC-4	8/6/12	0 to 6.75	0.0	<0.048	<0.24	<4.8	<10	
Release	SC-5	8/6/12	0 to 6.75	0.0	< 0.047	<0.235	<4.7	<10	
#1	SC-6	8/6/12	0 to 6.75	0.0	<0.048	<0.241	<4.8	<10	
	SC-7	8/6/12	6.75	0.0	<0.047	<0.235	<4.7	<9.7	
	SC-8	8/6/12	6.75	0.0	<0.050	<0.25	<5.0	<9.8	
	SC-9	8/6/12	0.25	0.0	<0.049	<0.245	<4.9	120	
	SC-10	8/6/12	0.25	0.0	<0.048	<0.239	<4.8	<49	
	NMOCD Action Level		100	10	50	100*			
	SC-1	8/6/12	0 to 5	53.6	<0.049	<0.246	<4.9	<9.7	
	SC-2	8/6/12	0 to 5	7.0	<0.046	<0.23	<4.6	170	
	SC-3	8/6/12	0 to 5	1.5	<0.049	<0.245	<4.9	<9.8	
	SC-4	8/6/12	0 to 5	0.2	<0.049	<0.245	<4.9	<10	
Release	SC-5	8/6/12	0 to 5	3.8	<0.046	<0.23	<4.6	12	
#2	SC-6	8/6/12	0 to 5	2.4	<0.047	<0.235	<4.7	35	
	SC-7	8/6/12	0 to 5	0.7	<0.050	<0.249	<5.0	<10	
	SC-8	8/6/12	0 to 5	0.0	<0.048	<0.24	<4.8	<9.6	
	SC-9	8/6/12	0 to 5	0.0	<0.046	<0.23	<4.6	<10	
	SC-10	8/6/12	0 to 5	0.6	<0.049	<0.245	<4.9	<9.6	

Release ID	Sample ID	Sample Date	Depth (ft)	VOCs OVM (ppm)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH- GRO (mg/kg)	TPH- DRO (mg/kg)
	SC-11	8/6/12	5	2.9	< 0.047	<0.234	<4.7	<9.7
	SC-12	8/6/12	5	0.3	<0.046	<0.231	<4.6	<9.7
	SC-13	8/6/12	5	0.0	<0.049	<0.244	<4.9	<10
	SC-14	8/6/12	5	0.0	<0.049	<0.244	<4.9	<10
		NMOCD Action Level		100	10	50	10	00*
Release	SC-1	8/6/12	1	0.0	<0.047	<0.235	<4.7	<10
#3	SC-2	8/6/12	TD	0.0	<0.047	<0.235	<4.7	<10

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

3.0 Conclusions and Recommendations

NMOCD action levels for releases are specified in NMOCD's *Guidelines for Leaks, Spills, and Releases* (August 1993). Release #1 was assigned a ranking score of 10, and Release #2 and Release #3 were each assigned a ranking score of 20. Based on field observations, field screening values, and laboratory analytical results for VOCs, benzene, BTEX, and TPH, soils have not been impacted above NMOCD action levels within the release areas, with the exception of SC-2 (170 mg/kg DRO) at Release #2. AES recommends application of a dilute Simple Green solution within the vicinity of SC-2 at Release #2 in order to enhance bioremediation of residual petroleum hydrocarbons in the soil.

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

Sincerely,

Landrea Cupps

Environmental Scientist

Sandre R. Cupps

Elizabeth McNally, P.E.

Elizabeth V MeNelly

Aaron Dailey Lateral 2B-24 Multiple Release Assessment November 15, 2012 Page 7 of 7

Attachments:

Figure 1. Topographic Site Location Map

Figure 2a. Aerial Site Map Release #1

Figure 2b. Aerial Site Map Release #2

Figure 2c. Aerial Site Map Release #3

Figure 3a. Release #1 Sample Locations and Results, August 2012

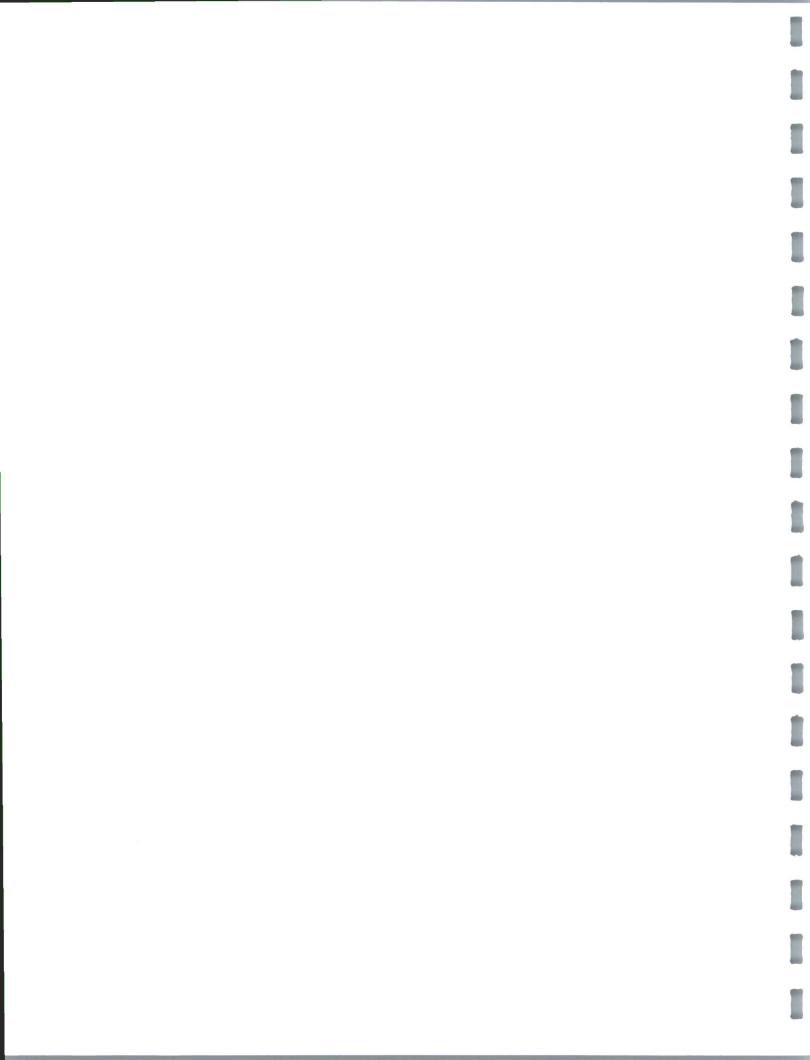
Figure 3b. Release #2 Sample Locations and Results, August 2012

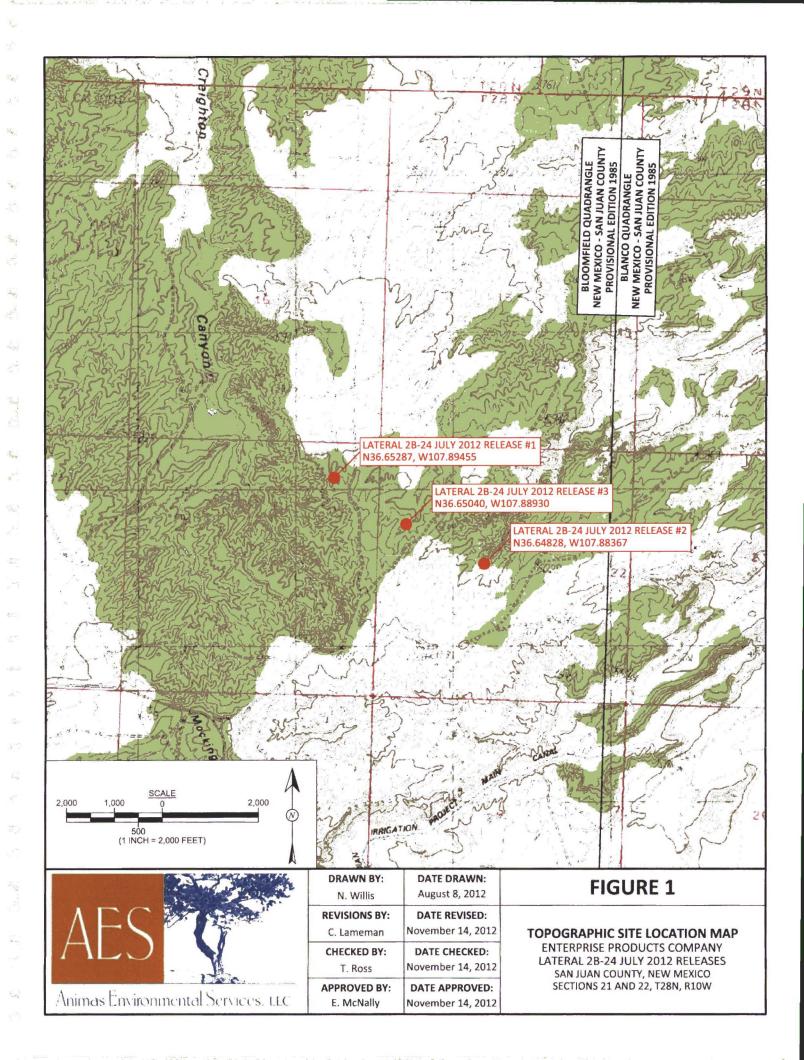
Figure 3c. Release #3 Sample Locations and Results, August 2012

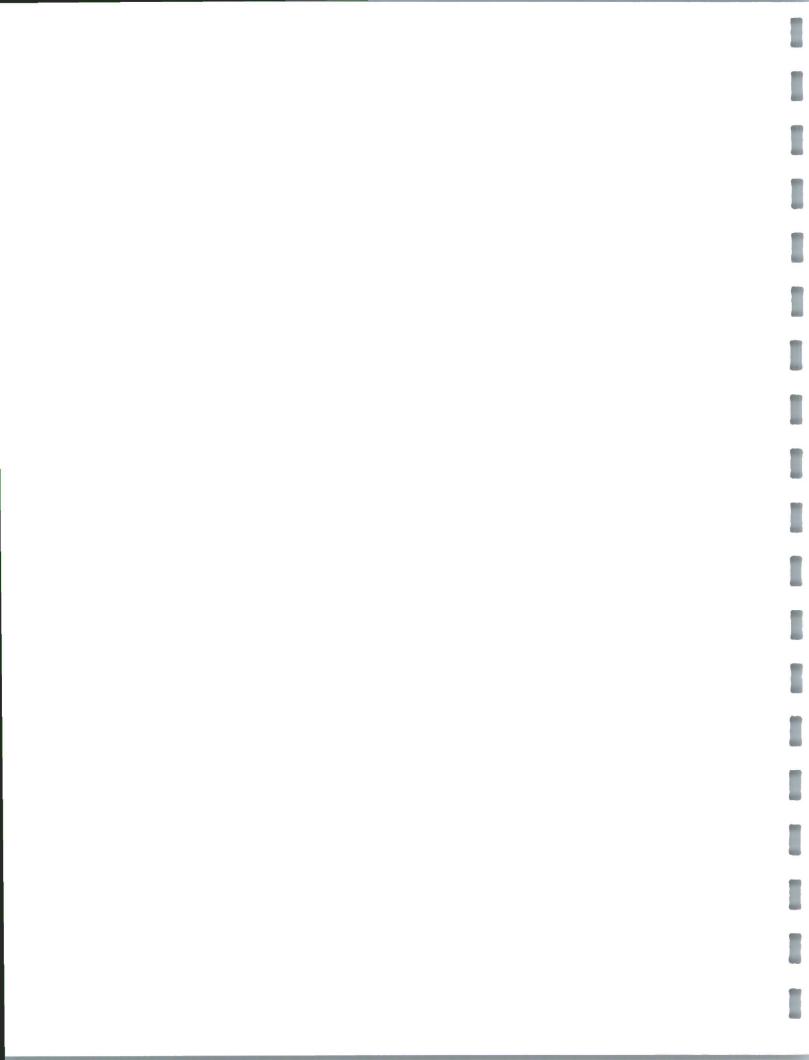
Photograph Log

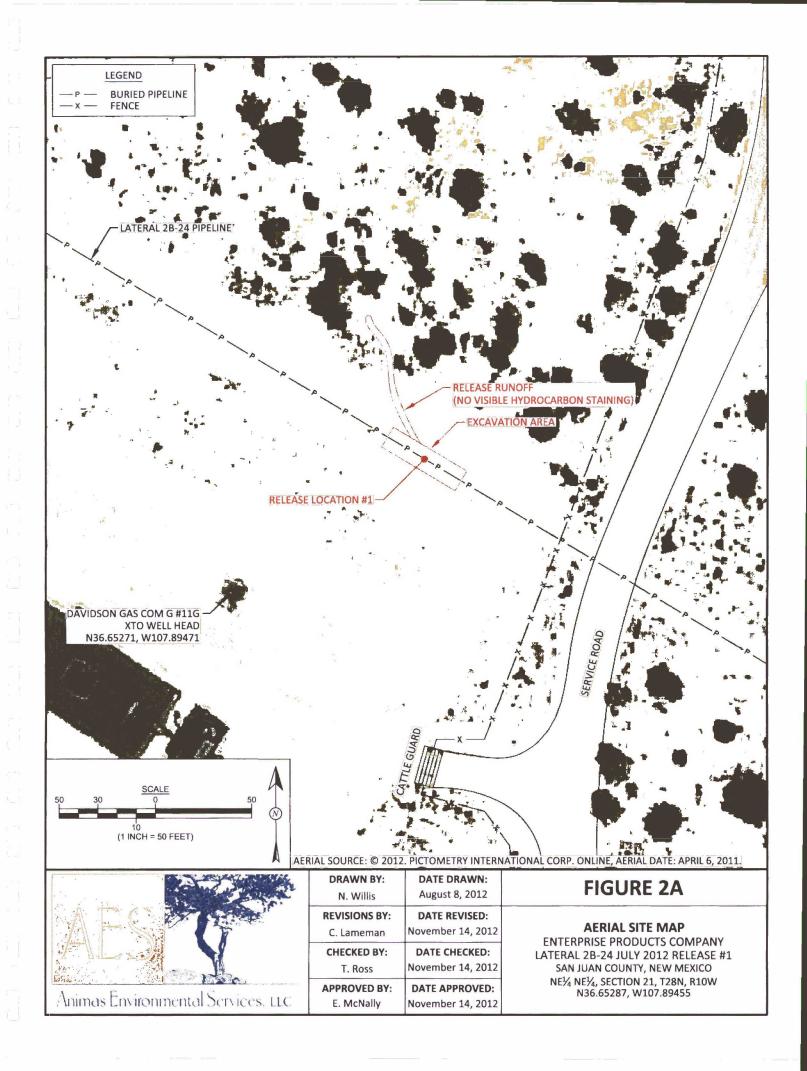
Laboratory Analytical Reports (Hall 1208369, 1208371, 1208372)

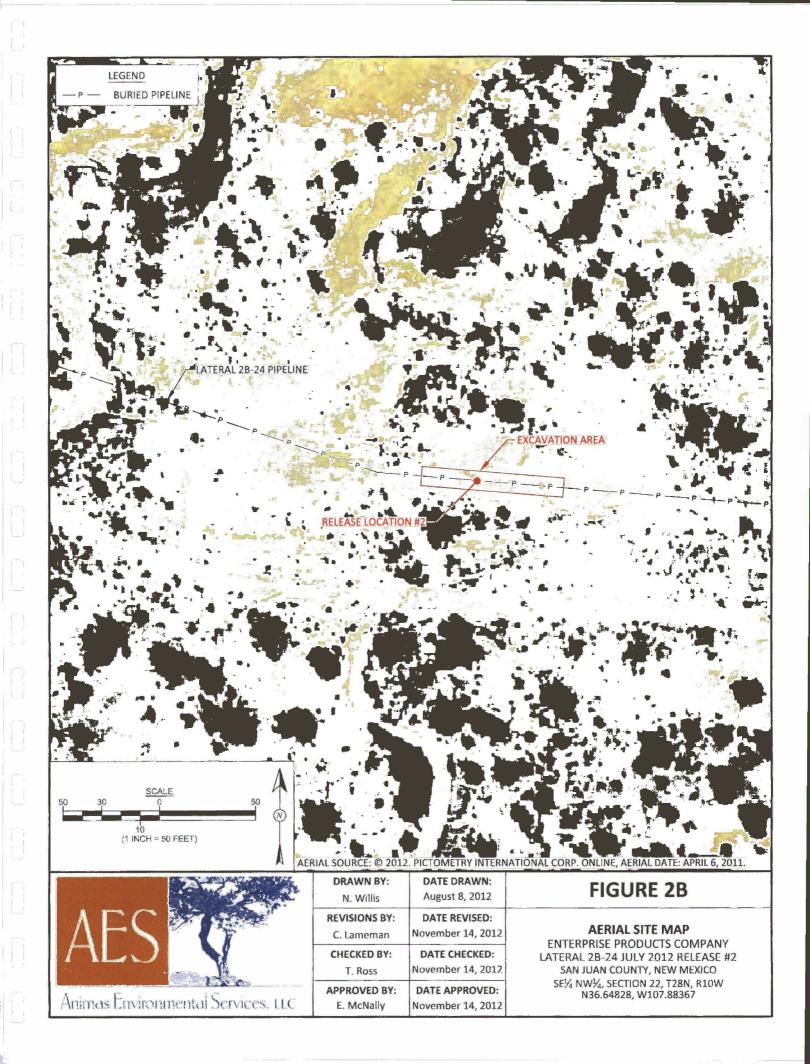
R:\Animas 2000\2012 Projects\Enterprise\Lateral 2B-24\July 2012\Enterprise Lateral 2B-24 Multiple Release Assessment 111512.docx

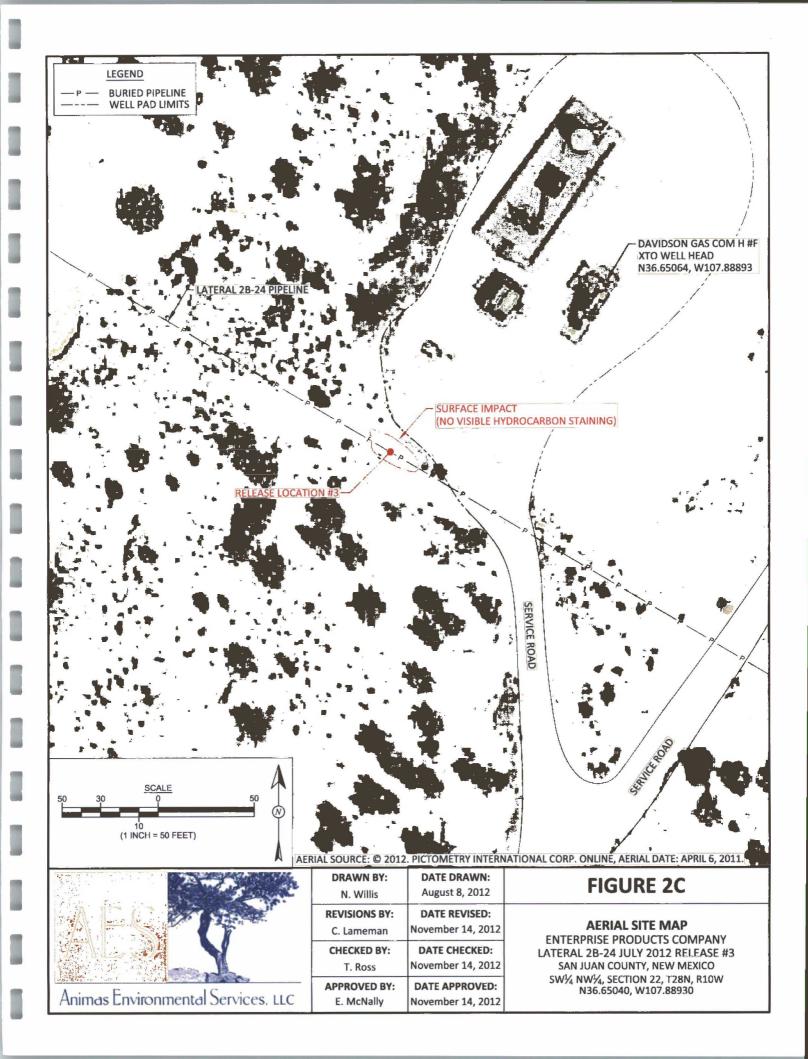


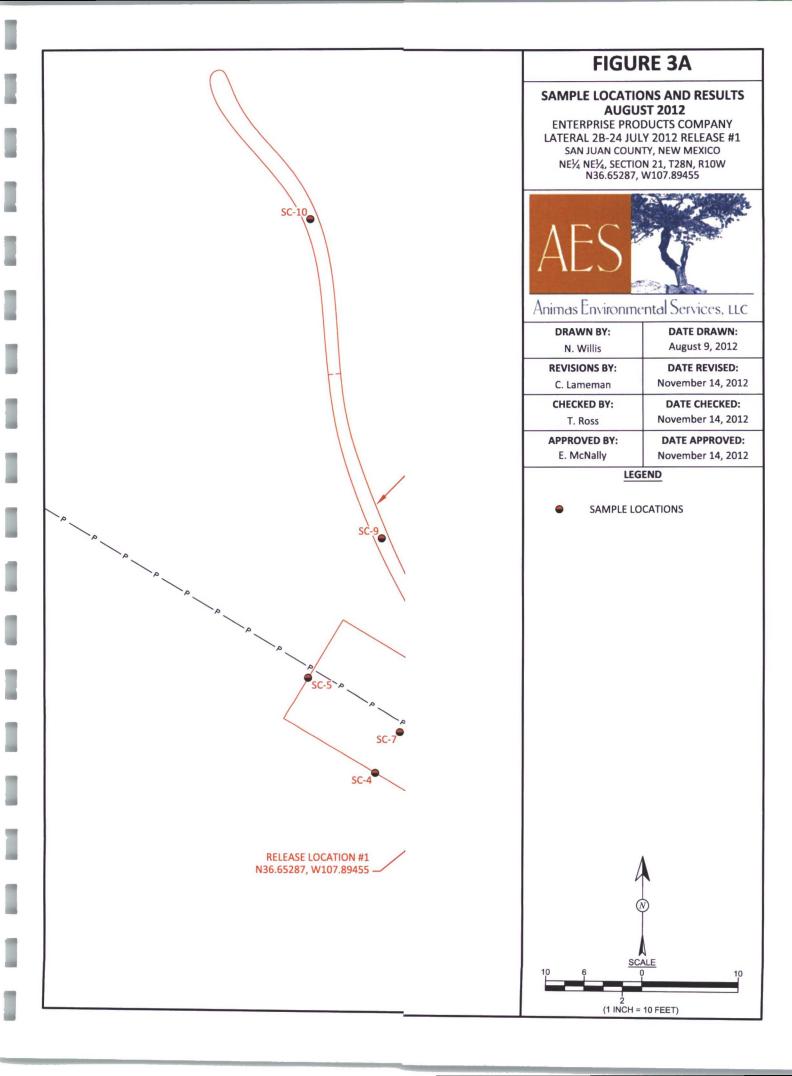


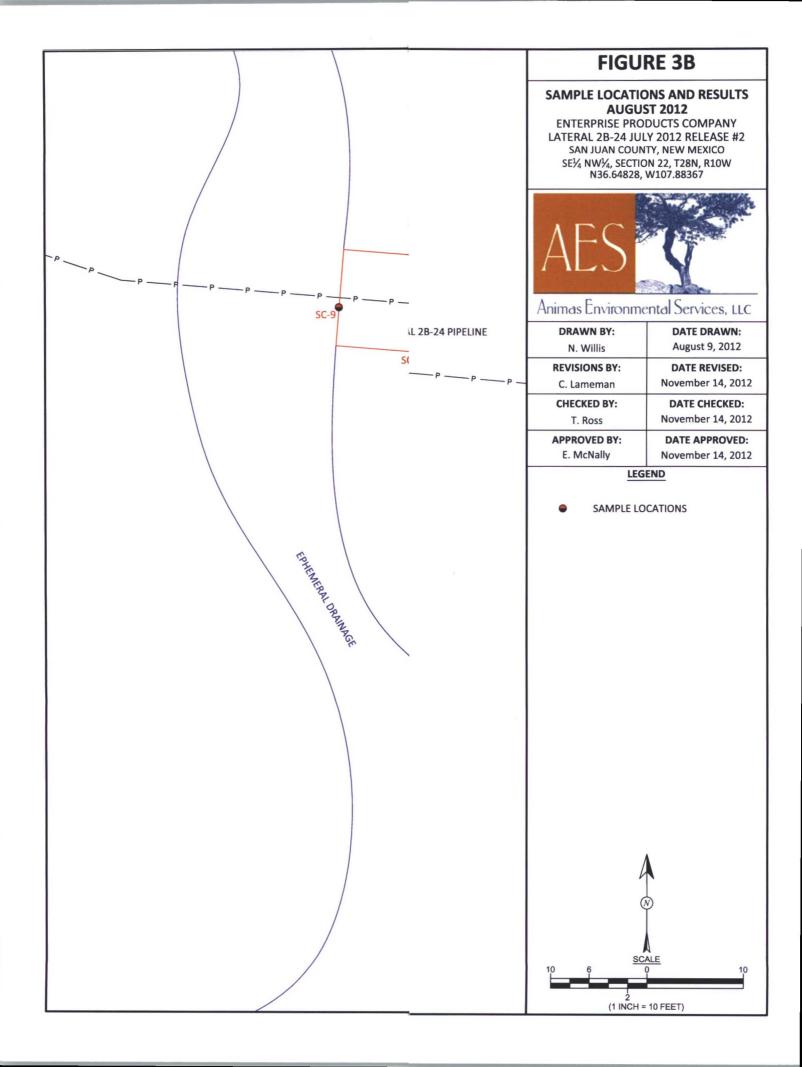












CLATERAL 2B-24 PIPEL

Field Screening and Laboratory And OVM-Depth Benzene Sample ID PID Date (mg/kg) (ft) (ppm) **NMOCD ACTION LEVEL** 100 10 SC-1 8/6/12 0.0 < 0.047 8/6/12 < 0.047 SC-2 TD 0.0

ALL SOIL BORINGS TERMINATED AT SANDSTONE. SC-1 IS SB-6 AT 1 FT BGS. SC-2 IS A COMPOSITE OF SB-2 THROUG DEPTH. ALL SAMPLES WERE ANALYZED PER EPA METHOL

FIGURE 3C

SAMPLE LOCATIONS AND RESULTS AUGUST 2012

ENTERPRISE PRODUCTS COMPANY LATERAL 2B-24 JULY 2012 RELEASE #3 SAN JUAN COUNTY, NEW MEXICO SW¼ NW¼, SECTION 22, T28N, R10W N36.65040, W107.88930

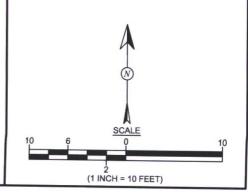


Animas Environmental Services, LLC

DRAWN BY:	DATE DRAWN:	
N. Willis	August 9, 2012	
REVISIONS BY:	DATE REVISED:	_
C. Lameman	November 14, 2012	
CHECKED BY:	DATE CHECKED:	
T. Ross	November 14, 2012	
APPROVED BY:	DATE APPROVED:	_
E. McNally	November 14, 2012	

LEGEND

SAMPLE LOCATIONS



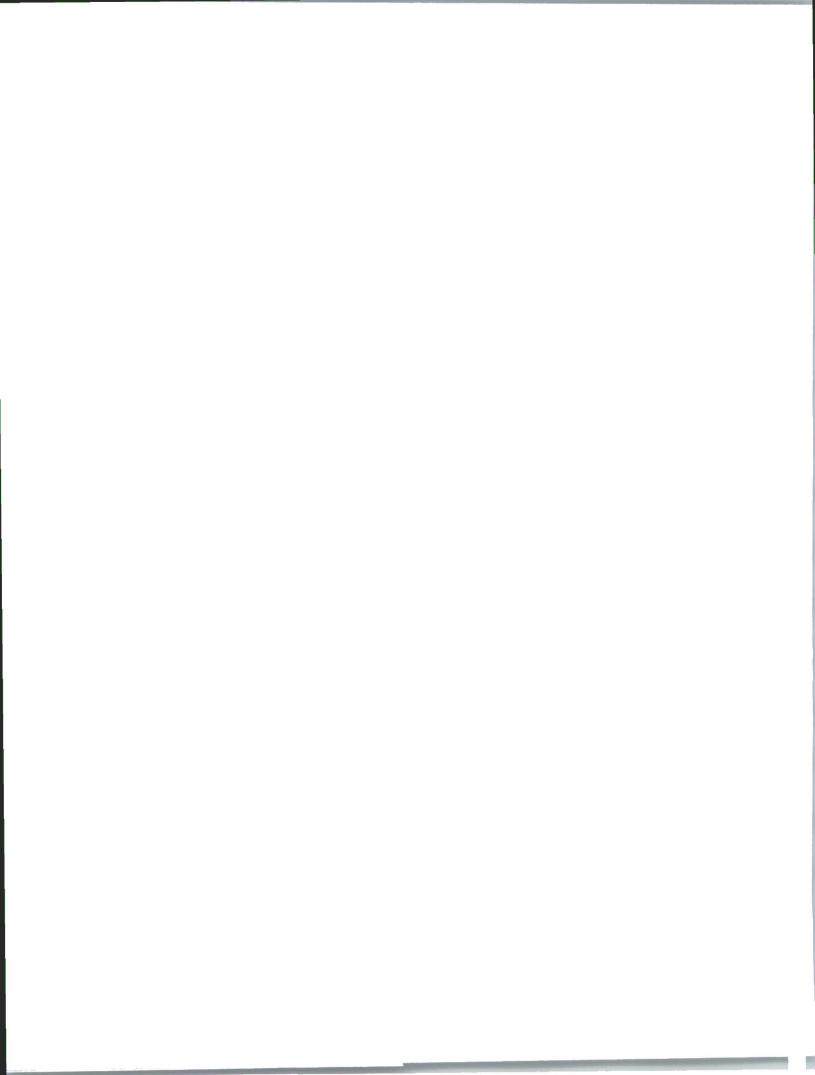


Photo #1

Client: Enterprise Products Company

Project: Lateral 2B-24 Multiple Release

> Taken by: Tom Long

August 7, 2012

AES Project No: 120802

Description: View of Release #1 excavation.

Photo #2

Client: Enterprise Products Company

Project: Lateral 2B-24 Multiple Release

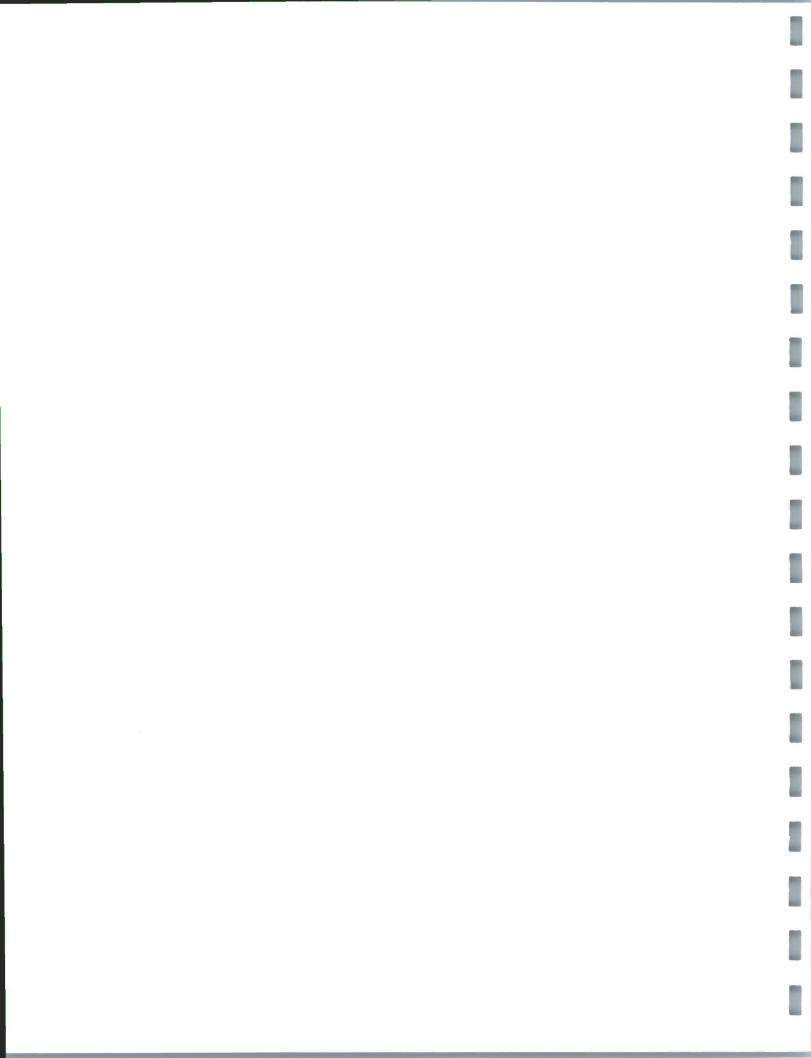
> Taken by: Tom Long

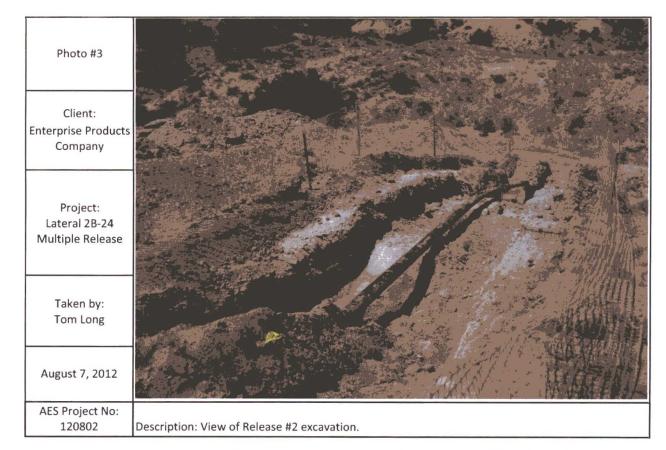
August 7, 2012

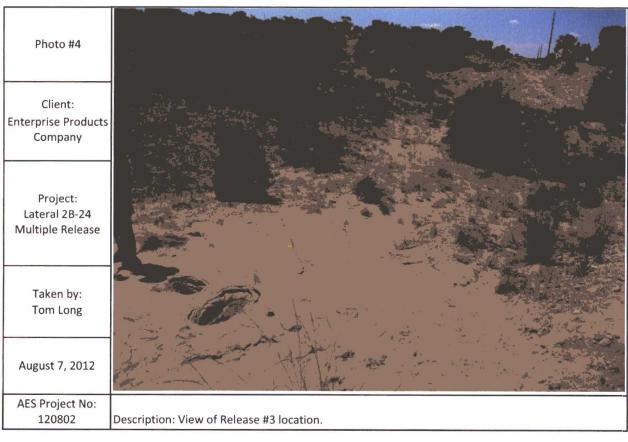
AES Project No: 120802

Description: View of surface staining adjacent to Release #1.











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

August 15, 2012

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

FAX

RE: Enterprise Lateral 2B-24 Excavation #1

OrderNo.: 1208371

Dear Tami Ross:

Hall Environmental Analysis Laboratory received 10 sample(s) on 8/8/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1208371

Date Reported: 8/15/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Enterprise Lateral 2B-24 Excavation #1

Lab ID: 1208371-001

Project:

cavation #1

Matrix: SOIL

Client Sample ID: SC-1

Collection Date: 8/6/2012 10:50:00 AM

Received Date: 8/8/2012 9:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	SE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/10/2012 11:20:03 AM
Surr: DNOP	105	77.6-140	%REC	1	8/10/2012 11:20:03 AM
EPA METHOD 8015B: GASOLINE RA	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/10/2012 7:19:01 PM
Surr: BFB	99.7	84-116	%REC	1	8/10/2012 7:19:01 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.047	mg/Kg	1	8/10/2012 7:19:01 PM
Toluene	ND	0.047	mg/Kg	1	8/10/2012 7:19:01 PM
Ethylbenzene	ND	0.047	mg/Kg	1	8/10/2012 7:19:01 PM
Xylenes, Total	ND	0.095	mg/Kg	1	8/10/2012 7:19:01 PM
Surr: 4-Bromofluorobenzene	103	80-120	%REC	1	8/10/2012 7:19:01 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
- U Samples with CalcVal < MDL

Page 1 of 13

Lab Order 1208371

Date Reported: 8/15/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Enterprise Lateral 2B-24 Excavation #1

Lab ID: 1208371-002

Client Sample ID: SC-2

Collection Date: 8/6/2012 10:51:00 AM

Received Date: 8/8/2012 9:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN		Analyst: JMP			
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	8/10/2012 11:45:25 AM
Surr: DNOP	106	77.6-140	%REC	1	8/10/2012 11:45:25 AM
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/10/2012 11:37:38 PM
Surr: BFB	99.1	84-116	%REC	1	8/10/2012 11:37:38 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.048	mg/Kg	1	8/10/2012 11:37:38 PM
Toluene	ND	0.048	mg/Kg	1	8/10/2012 11:37:38 PM
Ethylbenzene	ND	0.048	mg/Kg	1	8/10/2012 11:37:38 PM
Xylenes, Total	ND	0.096	mg/Kg	1	8/10/2012 11:37:38 PM
Surr: 4-Bromofluorobenzene	105	80-120	%REC	1	8/10/2012 11:37:38 PM

Matrix: SOIL

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

U Samples with CalcVal < MDL</p>

Page 2 of 13

Lab Order 1208371

Date Reported: 8/15/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Enterprise Lateral 2B-24 Excavation #1

Lab ID: 1208371-003

Client Sample ID: SC-3

Collection Date: 8/6/2012 10:52:00 AM

Received Date: 8/8/2012 9:55:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	SE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/10/2012 12:37:07 PM
Surr: DNOP	103	77.6-140	%REC	1	8/10/2012 12:37:07 PM
EPA METHOD 8015B: GASOLINE RA	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/11/2012 12:06:24 AM
Surr: BFB	98.8	84-116	%REC	1	8/11/2012 12:06:24 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.049	mg/Kg	1	8/11/2012 12:06:24 AM
Toluene	ND	0.049	mg/Kg	1	8/11/2012 12:06:24 AM
Ethylbenzene	ND	0.049	mg/Kg	1	8/11/2012 12:06:24 AM
Xylenes, Total	ND	0.099	mg/Kg	1	8/11/2012 12:06:24 AM
Surr: 4-Bromofluorobenzene	104	80-120	%REC	1	8/11/2012 12:06:24 AM

Matrix: SOIL

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
- U Samples with CalcVal < MDL</p>

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Lab Order 1208371

Date Reported: 8/15/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Enterprise Lateral 2B-24 Excavation #1

Lab ID: 1208371-004

Project:

crvices Client Sample ID: SC-4

Matrix: SOIL

Collection Date: 8/6/2012 10:53:00 AM

Received Date: 8/8/2012 9:55:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/10/2012 9:29:44 AM
Surr: DNOP	96.9	77.6-140	%REC	1	8/10/2012 9:29:44 AM
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/11/2012 12:35:04 AM
Surr: BFB	97.6	84-116	%REC	1	8/11/2012 12:35:04 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.048	mg/Kg	1	8/11/2012 12:35:04 AM
Toluene	ND	0.048	mg/Kg	1	8/11/2012 12:35:04 AM
Ethylbenzene	ND	0.048	mg/Kg	1	8/11/2012 12:35:04 AM
Xylenes, Total	ND	0.096	mg/Kg	1	8/11/2012 12:35:04 AM
Surr: 4-Bromofluorobenzene	102	80-120	%REC	1	8/11/2012 12:35:04 AM

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

U Samples with CalcVal < MDL

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Lab Order 1208371

Date Reported: 8/15/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Enterprise Lateral 2B-24 Excavation #1

Lab ID: 1208371-005

Client Sample ID: SC-5

Collection Date: 8/6/2012 10:54:00 AM

Received Date: 8/8/2012 9:55:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/10/2012 10:41:22 AM
Surr: DNOP	99.3	77.6-140	%REC	1	8/10/2012 10:41:22 AM
EPA METHOD 8015B: GASOLINE R.	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/11/2012 1:03:44 AM
Surr: BFB	98.5	84-116	%REC	1	8/11/2012 1:03:44 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.047	mg/Kg	1	8/11/2012 1:03:44 AM
Toluene	ND	0.047	mg/Kg	1	8/11/2012 1:03:44 AM
Ethylbenzene	ND	0.047	mg/Kg	1	8/11/2012 1:03:44 AM
Xylenes, Total	ND	0.094	mg/Kg	1	8/11/2012 1:03:44 AM
Surr: 4-Bromofluorobenzene	104	80-120	%REC	1	8/11/2012 1:03:44 AM

Matrix: SOIL

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

U Samples with CalcVal < MDL

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Lab Order 1208371

Date Reported: 8/15/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Enterprise Lateral 2B-24 Excavation #1

Lab ID: 1208371-006

Client Sample ID: SC-6

Collection Date: 8/6/2012 10:55:00 AM

Received Date: 8/8/2012 9:55:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN	GE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/10/2012 11:54:47 AM
Surr: DNOP	99.2	77.6-140	%REC	1	8/10/2012 11:54:47 AM
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/11/2012 1:32:22 AM
Surr: BFB	99.5	84-116	%REC	1	8/11/2012 1:32:22 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.048	mg/Kg	1	8/11/2012 1:32:22 AM
Toluene	ND	0.048	mg/Kg	1	8/11/2012 1:32:22 AM
Ethylbenzene	ND	0.048	mg/Kg	1	8/11/2012 1:32:22 AM
Xylenes, Total	ND	0.097	mg/Kg	1	8/11/2012 1:32:22 AM
Surr: 4-Bromofluorobenzene	105	80-120	%REC	1	8/11/2012 1:32:22 AM

Matrix: SOIL

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

U Samples with CalcVal < MDL

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Lab Order 1208371

Date Reported: 8/15/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-7

Project: Enterprise Lateral 2B-24 Excavation #1

Collection Date: 8/6/2012 10:57:00 AM

Lab ID: 1208371-007

Received Date: 8/8/2012 9:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	8/10/2012 12:17:02 PM
Surr: DNOP	101	77.6-140	%REC	1	8/10/2012 12:17:02 PM
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/11/2012 2:01:06 AM
Surr: BFB	99.7	84-116	%REC	1	8/11/2012 2:01:06 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.047	mg/Kg	1	8/11/2012 2:01:06 AM
Toluene	ND	0.047	mg/Kg	1	8/11/2012 2:01:06 AM
Ethylbenzene	ND	0.047	mg/Kg	1	8/11/2012 2:01:06 AM
Xylenes, Total	ND	0.094	mg/Kg	1	8/11/2012 2:01:06 AM
Surr: 4-Bromofluorobenzene	104	80-120	%REC	1	8/11/2012 2:01:06 AM

Matrix: SOIL

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
- U Samples with CalcVal < MDL

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Lab Order 1208371

Date Reported: 8/15/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Enterprise Lateral 2B-24 Excavation #1

Lab ID: 1208371-008

Client Sample ID: SC-8

Collection Date: 8/6/2012 11:00:00 AM

Received Date: 8/8/2012 9:55:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	8/10/2012 12:39:12 PM
Surr: DNOP	103	77.6-140	%REC	1	8/10/2012 12:39:12 PM
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/11/2012 2:29:52 AM
Surr: BFB	98.3	84-116	%REC	1	8/11/2012 2:29:52 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.050	mg/Kg	1	8/11/2012 2:29:52 AM
Toluene	ND	0.050	mg/Kg	1	8/11/2012 2:29:52 AM
Ethylbenzene	ND	0.050	mg/Kg	1	8/11/2012 2:29:52 AM
Xylenes, Total	ND	0.10	mg/Kg	1	8/11/2012 2:29:52 AM
Surr: 4-Bromofluorobenzene	102	80-120	%REC	1	8/11/2012 2:29:52 AM

Matrix: SOIL

Qualifiers: */X Value exceeds Maximum Contaminant I	Level	eve	e
---	-------	-----	---

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

U Samples with CalcVal < MDL

Lab Order 1208371

Date Reported: 8/15/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-9 Collection Date: 8/6/2012 11:55:00 AM

Project: Enterprise Lateral 2B-24 Excavation #1

1208371-009 Received Date: 8/8/2012 9:55:00 AM Lab ID: Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE	ORGANICS					Analyst: JMP
Diesel Range Organics (DRO)	120	100		mg/Kg	10	8/12/2012 4:20:52 AM
Surr: DNOP	0	77.6-140	S	%REC	10	8/12/2012 4:20:52 AM
EPA METHOD 8015B: GASOLINE RAI	NGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/14/2012 12:03:31 PM
Surr: BFB	96.1	84-116		%REC	1	8/14/2012 12:03:31 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	8/14/2012 12:03:31 PM
Toluene	ND	0.049		mg/Kg	1	8/14/2012 12:03:31 PM
Ethylbenzene	ND	0.049		mg/Kg	1	8/14/2012 12:03:31 PM
Xylenes, Total	ND	0.098		mg/Kg	1	8/14/2012 12:03:31 PM
Surr: 4-Bromofluorobenzene	99.5	80-120		%REC	1	8/14/2012 12:03:31 PM

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

Value above quantitation range E

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

Spike Recovery outside accepted recovery limits

Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND

Reporting Detection Limit RL

Samples with CalcVal < MDL

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Lab Order 1208371

Date Reported: 8/15/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Enterprise Lateral 2B-24 Excavation #1

Lab ID: 1208371-010

Client Sample ID: SC-10

Collection Date: 8/6/2012 11:56:00 AM

Received Date: 8/8/2012 9:55:00 AM

Analyses	es Result RL Qual Units		DF	Date Analyzed		
EPA METHOD 8015B: DIESEL RANGE	ORGANICS					Analyst: JMP
Diesel Range Organics (DRO)	ND	49		mg/Kg	5	8/13/2012 11:15:27 AM
Surr: DNOP	0	77.6-140	S	%REC	5	8/13/2012 11:15:27 AM
EPA METHOD 8015B: GASOLINE RAI	NGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/14/2012 12:32:18 PM
Surr: BFB	96.5	84-116		%REC	1	8/14/2012 12:32:18 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	8/14/2012 12:32:18 PM
Toluene	ND	0.048		mg/Kg	1	8/14/2012 12:32:18 PM
Ethylbenzene	ND	0.048		mg/Kg	1	8/14/2012 12:32:18 PM
Xylenes, Total	ND	0.095		mg/Kg	1	8/14/2012 12:32:18 PM
Surr: 4-Bromofluorobenzene	99.0	80-120		%REC	1	8/14/2012 12:32:18 PM

Matrix: SOIL

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

U Samples with CalcVal < MDL

Page 10 of 13

Hall Environmental Analysis Laboratory, Inc.

WO#: 1208371

15-Aug-12

Client:

Animas Environmental Services

Project:

Enterprise Lateral 2B-24 Excavation #1

Sample ID MB-3256	SampTy	pe: ME	BLK	TestCode: EPA Method 8015B: Diesel Range Organics								
Client ID: PBS	Batch	ID: 32	56	R	RunNo: 4	749						
Prep Date: 8/9/2012	Analysis Da	ate: 8/	9/2012	S	SeqNo: 1	33973	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	ND	10										
Surr: DNOP	9.4		10.00		94.3	77.6	140					

Sample ID LCS-3256	SampType: LCS TestCode: EPA Method 801							el Range C	Organics	
Client ID: LCSS	Batch II	Batch ID: 3256 RunNo: 4749								
Prep Date: 8/9/2012	Analysis Date	nalysis Date: 8/9/2012 SeqNo: 133997 U					Units: mg/K	g		
Analyte	Result I	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	37	10	50.00	0	73.9	52.6	130			
Surr: DNOP	3.9		5.000		78.2	77.6	140			

Sample ID MB-3262	SampT	SampType: MBLK			TestCode: EPA Method 8015B: Diesel Range Organics								
Client ID: PBS	Batch	Batch ID: 3262 RunNo: 4775											
Prep Date: 8/9/2012	Analysis D	ate: 8/	10/2012	SeqNo: 134715			Units: mg/K	(g					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Diesel Range Organics (DRO)	ND	10											
Surr: DNOP	10		10.00		100	77.6	140						

Sample ID LCS-3262	Samp	SampType: LCS TestCode: EPA Me						od 8015B: Diesel Range Organics						
Client ID: LCSS	Batch	Batch ID: 3262 RunNo: 4775												
Prep Date: 8/9/2012	Analysis D	ate: 8/	10/2012	8	SeqNo: 134717			(g						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Diesel Range Organics (DRO)	40	10	50.00	0	79.5	52.6	130							
Surr: DNOP	5.1		5 000		102	77.6	140							

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 11 of 13

Hall Environmental Analysis Laboratory, Inc.

WO#:

1208371

15-Aug-12

Client:

Animas Environmental Services

Project:

Enterprise Lateral 2B-24 Excavation #1

Sample ID MB-3261

SampType: MBLK

TestCode: EPA Method 8015B: Gasoline Range

Client ID:

PBS

Batch ID: 3261

RunNo: 4807

Prep Date: 8/9/2012

Analysis Date: 8/10/2012

5.0

SeqNo: 135513

Units: mg/Kg

Result **PQL**

%RPD

%RPD

RPDLimit

Analyte

ND

SPK value SPK Ref Val %REC

HighLimit

Qual

Qual

RPDLimit

Gasoline Range Organics (GRO) Surr: BFB

990

1000

98.8

LowLimit

84

116

Sample ID LCS-3261

Client ID: LCSS SampType: LCS

TestCode: EPA Method 8015B: Gasoline Range RunNo: 4807

Prep Date: 8/9/2012

Batch ID: 3261

Units: mg/Kg

Analyte

Analysis Date: 8/10/2012

SeqNo: 135517

HighLimit

115

116

Result PQL SPK value SPK Ref Val %REC LowLimit 22 Gasoline Range Organics (GRO) 5.0 25.00 0 88.1 85 Surr: BFB 1000 1000 84 102

*/X 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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit Page 12 of 13

Hall Environmental Analysis Laboratory, Inc.

WO#: 1208371

15-Aug-12

Client:

Animas Environmental Services

Project:

Enterprise Lateral 2B-24 Excavation #1

Sample ID MB-3261	SampT	ype: ME	BLK	Tes						
Client ID: PBS	Batch	n ID: 32	61	F	RunNo: 4	807				
Prep Date: 8/9/2012	Analysis D	Date: 8/	10/2012	SeqNo: 135539			Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		105	80	120			

Sample ID LCS-3261	Samp	Гуре: LC	S	Tes	8021B: Volat	tiles		·					
Client ID: LCSS	Batcl	n ID: 3261 RunNo: 4807											
Prep Date: 8/9/2012	Analysis [Date: 8/	10/2012	S	SeqNo: 1	35543	Units: mg/Kg						
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit Hi					HighLimit	%RPD	RPDLimit	Qual				
Benzene	0.93	0.050	1.000	0	92.8	76.3	117						
Toluene	0.94	0.050	1.000	0	94.4	80	120						
Ethylbenzene	0.96	0.050	1.000	0	96.4	77	116						
Xylenes, Total	2.9	0.10	3.000	0 97.3 76.7			117						
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120						

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 13 of 13



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Animas Engironmental Work Order Number: 1208371 Client Name: Received by/date: Lindsay Mangin 8/8/2012 9:55:00 AM Logged By: 8/8/2012 3:46:16 PM Completed By: **Lindsay Mangin** 08/09/12 Reviewed By: Chain of Custody No Not Present ✓ 1. Were seals intact? Yes V No : Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In Yes V No 4. Coolers are present? (see 19. for cooler specific information) NA 5. Was an attempt made to cool the samples? Yes V No 6. Were all samples received at a temperature of >0° C to 6.0°C Yes V No 7. Sample(s) in proper container(s)? Yes V No 8 Sufficient sample volume for indicated test(s)? Yes V No 9. Are samples (except VOA and ONG) properly preserved? Yes No V NA . 10. Was preservative added to bottles? No No VOA Vials 11. VOA vials have zero headspace? No V 12. Were any sample containers received broken? # of preserved Yes V No 13. Does paperwork match bottle labels? bottles checked (Note discrepancies on chain of custody) for pH: Yes V No 14. Are matrices correctly identified on Chain of Custody? (<2 or >12 unless noted) Adjusted? 15. Is it clear what analyses were requested? V No Yes V No 16. Were all holding times able to be met? (If no, notify customer for authorization.) Checked by: Special Handling (if applicable) 17. Was client notified of all discrepancies with this order? Yes No : NA V Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 18 Additional remarks:

2.0

19. Cooler Information

Cooler No Temp °C Condition | Seal Intact | Seal No | Seal Date

Client: Aurimas □ EDD (Type) □ NELAP QA/QC Package: Mailing Address: 624 Accreditation Standard email or Fax#: Phone #: Date Chain-of-Custody Record ten wine to 1050 75 Time: 1057 1100 1055 1051 053 0.00 P-50 Time 505-564-2281 30: Matrix □ Other Enlinan montal 2 ☐ Level 4 (Full Validation) III ·50-1 56-5 21-75 50-7 3-75 3C-4 56-3 SC-2 Sample Request ID Consucho 8740 Senico Project Name: Enterphise Project Manager Received Sampler: Project #: Type and # Container 4026 28-24 22 102 Preservative EXCAVATION Type 500 XOS 200 000 2000 -0°5 8 200-Teter 2007 #-0 Time Remarks: X X BTEX + MTBE + TMB's (8021) BTEX + MTBE + TPH (Gas only) 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 X TPH Method 8015B (Gas/Diesel) B. 11 TPH (Method 418.1) ANALYSIS LABORATORY www.hallenvironmental.com of EDB (Method 504.1) 8310 (PNA or PAH) Analysis Request でれていかられ RCRA 8 Metals Fax 505-345-4107 Anions (F,CI,NO₃,NO₂,PO₄,SO₄) 8081 Pesticides / 8082 PCB's 8260B (VOA) 8270 (Semi-VOA)

Air Bubbles (Y or N)



Turn-Around Time:

HALL ENVIRONMENTAL



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

August 13, 2012

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

FAX

RE: Enterprise Lateral 2B-24 Release #3

OrderNo.: 1208369

Dear Tami Ross:

Hall Environmental Analysis Laboratory received 2 sample(s) on 8/8/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1208369

Date Reported: 8/13/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Enterprise Lateral 2B-24 Release #3

Lab ID: 1208369-001

Client Sample ID: SC-1

Collection Date: 8/6/2012 3:16:00 PM

Received Date: 8/8/2012 9:55:00 AM

Analyses	Result	RL Q	ial Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE	ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/10/2012 8:48:09 AM
Surr: DNOP	107	77.6-140	%REC	1	8/10/2012 8:48:09 AM
EPA METHOD 8015B: GASOLINE RAN	IGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/10/2012 4:26:22 PM
Surr: BFB	103	84-116	%REC	1	8/10/2012 4:26:22 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.047	mg/Kg	1	8/10/2012 4:26:22 PM
Toluene	ND	0.047	mg/Kg	1	8/10/2012 4:26:22 PM
Ethylbenzene	ND	0.047	mg/Kg	1	8/10/2012 4:26:22 PM
Xylenes, Total	ND	0.094	mg/Kg	1	8/10/2012 4:26:22 PM
Surr: 4-Bromofluorobenzene	105	80-120	%REC	1	8/10/2012 4:26:22 PM

Matrix: SOIL

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
- U Samples with CalcVal < MDL

Lab Order 1208369

Date Reported: 8/13/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services Client Sample ID: SC-2

Project: Enterprise Lateral 2B-24 Release #3 Collection Date: 8/6/2012 3:18:00 PM

Lab ID: 1208369-002 **Matrix:** SOIL **Received Date:** 8/8/2012 9:55:00 AM

Analyses	yses Result RL Qual Units		DF	Date Analyzed	
EPA METHOD 8015B: DIESEL RANG	E ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/10/2012 9:13:28 AM
Surr: DNOP	109	77.6-140	%REC	1	8/10/2012 9:13:28 AM
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/10/2012 4:55:05 PM
Surr: BFB	101	84-116	%REC	1	8/10/2012 4:55:05 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.047	mg/Kg	1	8/10/2012 4:55:05 PM
Toluene	ND	0.047	mg/Kg	1	8/10/2012 4:55:05 PM
Ethylbenzene	ND	0.047	mg/Kg	1	8/10/2012 4:55:05 PM
Xylenes, Total	ND	0.094	mg/Kg	1	8/10/2012 4:55:05 PM
Surr: 4-Bromofluorobenzene	105	80-120	%REC	1	8/10/2012 4:55:05 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

U Samples with CalcVal < MDL

Page 2 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1208369

13-Aug-12

Client:

Animas Environmental Services

Project:

Enterprise Lateral 2B-24 Release #3

Sample ID MB-3256

SampType: MBLK

TestCode: EPA Method 8015B: Diesel Range Organics

Client ID: PBS

Batch ID: 3256

RunNo: 4749

Prep Date: 8/9/2012

Analysis Date: 8/9/2012

SeqNo: 133973

Units: mg/Kg

Analyte

PQL Result

SPK value SPK Ref Val %REC

10 ND

LowLimit

HighLimit %RPD **RPDLimit**

Qual

Qual

Diesel Range Organics (DRO) Surr: DNOP

9.4

37

3.9

10.00

94.3 77.6 140

Sample ID LCS-3256

SampType: LCS Batch ID: 3256 TestCode: EPA Method 8015B: Diesel Range Organics

RunNo: 4749

Client ID: LCSS Prep Date:

8/9/2012

Analysis Date: 8/9/2012

10

SeqNo: 133997

%REC

Units: mg/Kg

HighLimit %RPD **RPDLimit**

Analyte Diesel Range Organics (DRO) Surr: DNOP

PQL Result

SPK value SPK Ref Val 50.00

5.000

73.9 78.2

52.6 77.6

LowLimit

130

140

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

Analyte detected below quantitation limits

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Reporting Detection Limit

Page 3 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1208369

13-Aug-12

Client:

Animas Environmental Services

Project:

Enterprise Lateral 2B-24 Release #3

Sample ID MB-3261

SampType: MBLK

TestCode: EPA Method 8015B: Gasoline Range

84

Client ID: PBS

Batch ID: 3261

RunNo: 4807

Prep Date: 8/9/2012

SeqNo: 135513

Analysis Date: 8/10/2012

PQL

PQL

5.0

5.0

Units: mg/Kg

Analyte Gasoline Range Organics (GRO)

ND 990

Result

SPK value SPK Ref Val

SPK value SPK Ref Val %REC LowLimit

%RPD HighLimit

RPDLimit Qual

Surr: BFB

1000

98.8

116

Sample ID LCS-3261

SampType: LCS Batch ID: 3261 TestCode: EPA Method 8015B: Gasoline Range RunNo: 4807

%REC

Client ID: LCSS Prep Date: 8/9/2012

Analysis Date: 8/10/2012

SeqNo: 135517

Units: mg/Kg

HighLimit %RPD **RPDLimit** Qual

Analyte Gasoline Range Organics (GRO) Surr: BFB

Result 22 1000

25.00 1000 88.1 102 85 84

LowLimit

115 116

Qualifiers:

*/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 В

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

Reporting Detection Limit

Page 4 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1208369

13-Aug-12

Client:

Animas Environmental Services

Project:

Enterprise Lateral 2B-24 Release #3

Sample ID MB-3261

SampType: MBLK

TestCode: EPA Method 8021B: Volatiles

LowLimit

Client ID: PBS

Batch ID: 3261

PQL

RunNo: 4807

Prep Date: 8/9/2012 Analysis Date: 8/10/2012

1.1

1.1

SeqNo: 135539

Units: mg/Kg HighLimit

RPDLimit

RPDLimit

%RPD

%RPD

Qual

Analyte Benzene Toluene Ethylbenzene

Xylenes, Total

ND 0.050 ND 0.050 0.050 ND ND 0.10

1.000

105

80

76.3

80

77

80

76.7

Qual

Sample ID LCS-3261

Surr: 4-Bromofluorobenzene

SampType: LCS

TestCode: EPA Method 8021B: Volatiles

SPK value SPK Ref Val %REC

120

Client ID: Prep Date:

Surr: 4-Bromofluorobenzene

8/9/2012

Batch ID: 3261

Analysis Date: 8/10/2012

1.000

RunNo: 4807 SeqNo: 135543

107

Units: mg/Kg

117

120

116

117

120

HighLimit

Analyte Benzene Toluene Ethylbenzene

Xylenes, Total

PQL SPK value SPK Ref Val %REC Result LowLimit 0.93 0.050 1.000 0 92.8 0.94 0.050 1.000 0 94.4 0.96 0.050 1.000 0 96.4 2.9 0.10 3.000 0 97.3

Qualifiers:

Value exceeds Maximum Contaminant Level. */X

Value above quantitation range E

Analyte detected below quantitation limits

RPD outside accepted recovery limits R

Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND Reporting Detection Limit

Page 5 of 5



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105 TEL: 505-345-3075 FAX: 505-345-4107

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

Sample Log-In Check List

Client Name: A	Animas Environmental	V	Nork Or	der I	Numl	oer:	1208369	
Received by/date:	AS	08/08/12				_		
Logged By: L	indsay Mangin	8/8/2012 9:55:00 AM				0	ay Harge D	
Completed By: L	indsay Mangin	8/8/2012 3:36:08 PM				Of the	yntyse ynthys	
Reviewed By:	19	08/09/12						
Chain of Custo	<u>d</u> y:	, .						
1. Were seals into	act?		Yes		No	1 ;	Not Present	
2. Is Chain of Cus	stody complete?		Yes	~	No	: :	Not Present	
3. How was the s	ample delivered?		Cou	rier				
Log In								
 Coolers are pre 	esent? (see 19. for cooler s	pecific information)	Yes	~	No		NA ·	
5. Was an attemp	ot made to cool the samples	?	Yes	v	No		NA	
6. Were all samp	les received at a temperatu	re of >0° C to 6.0°C	Yes	~	No]	NA :	
7. Sample(s) in p	7. Sample(s) in proper container(s)?							
8. Sufficient samp	Sufficient sample volume for Indicated test(s)?							
9. Are samples (e	except VOA and ONG) prop	erly preserved?	Yes	~	No			
10. Was preservat	tive added to bottles?		Yes	į	No	V	NA	
11, VOA vials have	e zero headspace?		Yes	:	No		No VOA Vials	
12. Were any sam	ple containers received brol	ken?	Yes		No	~		
	rk match bottle labels?		Yes	~	No	-	# of preserved bottles checked for pH:	d
14. Are matrices c	correctly identified on Chain	of Custody?	Yes	~	No	!!	1	(<2 or >12 unless noted)
15. Is it clear what	analyses were requested?		Yes	~	No	1	Adjusted	?
1.4.	ng times able to be met?		Yes	V	No			
	stomer for authorization.) ig (if applicable)						Checked	by:
		h this arder?	Voc	1 :	No	:	AIA 🎻	
1	ified of all discrepancies with		res		No	1	NA V:	
Person N		Date:						
By Whom	Secretary bed Sales of the secretary and the second	Via:	i ∶eMa	il :	Ph	one	Fax In Person	1 .
Regarding								ndicanalists*
Client Ins	tructions:							,
18. Additional rem	arks:							
40.00-11-1	0							
19. Cooler Inform	auon							

Cooler No Temp °C Condition | Seal Intact | Seal No | Seal Date | Signed By

Client:	Chain-of-Custody Record Client: Animas Enc. services				Time:													ME			,
	1 1141 4	· hw.	Jelou				4		Y								/	RA		,KI	
Mailing /	Address	: 1 > 0	7 Coursehe	28-24	Rinse	re Lateral #3		400	14 LI							tal.co		7400			
	w L	609	B. Comarche -2481	Project #:						lawki											
Phone #			-7101					16	1. 50)5-34	15-3					ues		/			
email or	Fay#	5-06-	- 0 0 D	Project Mana	uer.			2	(F)				···a··			LIC 3					₹
QA/QQ P	ackage:		☐ Level 4 (Full Validation)		ni Ross honas Lon		TMB's (8021)	+ TPH (Gas only)	(Gas/Diesel)					2O4,SO	PCB's						
Accredit	tation		r	Sampler: 7	homas Lon	9 12 (No. %)	TMB	+ TPH (15B (G	18.1)	04.1)	AH)		J ₃ ,NO ₂ ,	/ 8082		(A)				Sr N)
□ EDD	(Type)			Sample Dem	planamutičký jejší	94 ()	岩	BE	08 p	bd 4	d 5	or P	tals	N,	ides	8	9				2
Date	Time	Matrix	Sample Request ID	Container Type and #	.,,,,,	1640 No. 18	BTEX + MT	BTEX + MTBE	TPH Method 8015B	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)				Air Bubbles (Y or N)
8-6-12	1516	Soil	Sc-1	402 Jan		- 001	X		V												T
4	1518	+	56-2	1	1	-002	7		£										\bot	\perp	ļ
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			-															寸	士		İ
Deter	Υ:	Relinguishe	<i>A</i>	Deschool has		Data Time												\perp	丄	\perp	
8/7/12	Time: 1737	7/1	or Te	Received by:	Walter	Date Time 8/7/2 1737	Ren	narks	. (Bill	1 7	6	Ea	ter p	ns	e					
Date: 8/1/12	1758	Relifiquishe	ad by:	Received by:	2 08	08 12 D9	5	5													

STATE OF THE PARTY.



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

August 13, 2012

Tami Ross

Animas Environmental Services

624 East Comanche

Farmington, NM 87401

TEL: (505) 793-2072

FAX

RE: Enterprise Lateral 2B-24 Excavation #2

OrderNo.: 1208372

Dear Tami Ross:

Hall Environmental Analysis Laboratory received 14 sample(s) on 8/8/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1208372

Date Reported: 8/13/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Enterprise Lateral 2B-24 Excavation #2

Lab ID: 1208372-001

Project:

Client Sample ID: SC-1

Collection Date: 8/6/2012 1:02:00 PM

Received Date: 8/8/2012 9:55:00 AM

Analyses	Result	RL Q	ıal Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	SE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	8/10/2012 1:01:41 PM
Surr: DNOP	103	77.6-140	%REC	1	8/10/2012 1:01:41 PM
EPA METHOD 8015B: GASOLINE RA	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/10/2012 2:11:12 PM
Surr: BFB	96.0	84-116	%REC	1	8/10/2012 2:11:12 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.049	mg/Kg	1	8/10/2012 2:11:12 PM
Toluene	ND	0.049	mg/Kg	1	8/10/2012 2:11:12 PM
Ethylbenzene	ND	0.049	mg/Kg	1	8/10/2012 2:11:12 PM
Xylenes, Total	ND	0.099	mg/Kg	1	8/10/2012 2:11:12 PM
Surr: 4-Bromofluorobenzene	101	80-120	%REC	1	8/10/2012 2:11:12 PM

Matrix: SOIL

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
- U Samples with CalcVal < MDL

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Lab Order 1208372

Date Reported: 8/13/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-2

Project:

Enterprise Lateral 2B-24 Excavation #2

Collection Date: 8/6/2012 1:03:00 PM

Lab ID:

1208372-002

Matrix: SOIL

Received Date: 8/8/2012 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS					Analyst: JMP
Diesel Range Organics (DRO)	170	50		mg/Kg	5	8/13/2012 12:21:26 PM
Surr: DNOP	0	77.6-140	S	%REC	5	8/13/2012 12:21:26 PM
EPA METHOD 8015B: GASOLINE RA	NGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	8/10/2012 7:13:33 PM
Surr: BFB	105	84-116		%REC	1	8/10/2012 7:13:33 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.046		mg/Kg	1	8/10/2012 7:13:33 PM
Toluene	ND	0.046		mg/Kg	1	8/10/2012 7:13:33 PM
Ethylbenzene	ND	0.046		mg/Kg	1	8/10/2012 7:13:33 PM
Xylenes, Total	ND	0.092		mg/Kg	1	8/10/2012 7:13:33 PM
Surr: 4-Bromofluorobenzene	111	80-120		%REC	1	8/10/2012 7:13:33 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

U Samples with CalcVal < MDL

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Lab Order 1208372

Date Reported: 8/13/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Enterprise Lateral 2B-24 Excavation #2

Lab ID: 1208372-003

Project:

Client Sample ID: SC-3

Collection Date: 8/6/2012 1:04:00 PM

Received Date: 8/8/2012 9:55:00 AM

Analyses	Result	RL (Qual U	nits	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN	GE ORGANICS					Analyst: JMP
Diesel Range Organics (DRO)	ND	9.8	m	ng/Kg	1	8/10/2012 1:26:03 PM
Surr: DNOP	103	77.6-140	%	REC	1	8/10/2012 1:26:03 PM
EPA METHOD 8015B: GASOLINE R	RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	m	ng/Kg	1	8/10/2012 3:42:02 PM
Surr: BFB	82.2	84-116	S %	REC	1	8/10/2012 3:42:02 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.049	m	ng/Kg	1	8/10/2012 3:42:02 PM
Toluene	ND	0.049	m	ng/Kg	1	8/10/2012 3:42:02 PM
Ethylbenzene	ND	0.049	m	ng/Kg	1	8/10/2012 3:42:02 PM
Xylenes, Total	ND	0.098	m	ng/Kg	1	8/10/2012 3:42:02 PM
Surr: 4-Bromofluorobenzene	84.4	80-120	%	REC	1	8/10/2012 3:42:02 PM

Matrix: SOIL

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

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

J Samples with CalcVal < MDL

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Lab Order 1208372

Date Reported: 8/13/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Enterprise Lateral 2B-24 Excavation #2

Lab ID: 1208372-004

Project:

Client Sample ID: SC-4

Collection Date: 8/6/2012 1:05:00 PM

Received Date: 8/8/2012 9:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	SE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/10/2012 1:48:25 PM
Surr: DNOP	103	77.6-140	%REC	1	8/10/2012 1:48:25 PM
EPA METHOD 8015B: GASOLINE RA	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/10/2012 4:12:09 PM
Surr: BFB	98.9	84-116	%REC	1	8/10/2012 4:12:09 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.049	mg/Kg	1	8/10/2012 4:12:09 PM
Toluene	ND	0.049	mg/Kg	1	8/10/2012 4:12:09 PM
Ethylbenzene	ND	0.049	mg/Kg	1	8/10/2012 4:12:09 PM
Xylenes, Total	ND	0.098	mg/Kg	1	8/10/2012 4:12:09 PM
Surr: 4-Bromofluorobenzene	102	80-120	%REC	1	8/10/2012 4:12:09 PM

Matrix: SOIL

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
- U Samples with CalcVal < MDL

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Lab Order 1208372

Date Reported: 8/13/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Enterprise Lateral 2B-24 Excavation #2

Lab ID: 1208372-005

Project:

Client Sample ID: SC-5

Collection Date: 8/6/2012 1:06:00 PM

Received Date: 8/8/2012 9:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN	GE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	12	10	mg/Kg	1	8/10/2012 2:10:52 PM
Surr: DNOP	109	77.6-140	%REC	1	8/10/2012 2:10:52 PM
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	8/10/2012 4:42:23 PM
Surr: BFB	103	84-116	%REC	1	8/10/2012 4:42:23 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.046	mg/Kg	1	8/10/2012 4:42:23 PM
Toluene	ND	0.046	mg/Kg	1	8/10/2012 4:42:23 PM
Ethylbenzene	ND	0.046	mg/Kg	1	8/10/2012 4:42:23 PM
Xylenes, Total	ND	0.092	mg/Kg	1	8/10/2012 4:42:23 PM
Surr: 4-Bromofluorobenzene	105	80-120	%REC	1	8/10/2012 4:42:23 PM

Matrix: SOIL

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

U Samples with CalcVal < MDL

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Lab Order 1208372

Date Reported: 8/13/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Enterprise Lateral 2B-24 Excavation #2

Lab ID: 1208372-006

Project:

Client Sample ID: SC-6

Collection Date: 8/6/2012 1:07:00 PM

Received Date: 8/8/2012 9:55:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	35	10	mg/Kg	1	8/13/2012 10:09:45 AM
Surr: DNOP	108	77.6-140	%REC	1	8/13/2012 10:09:45 AM
EPA METHOD 8015B: GASOLINE RA	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/10/2012 5:12:35 PM
Surr: BFB	92.0	84-116	%REC	1	8/10/2012 5:12:35 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.047	mg/Kg	1	8/10/2012 5:12:35 PM
Toluene	ND	0.047	mg/Kg	1	8/10/2012 5:12:35 PM
Ethylbenzene	ND	0.047	mg/Kg	1	8/10/2012 5:12:35 PM
Xylenes, Total	ND	0.094	mg/Kg	1	8/10/2012 5:12:35 PM
Surr: 4-Bromofluorobenzene	93.9	80-120	%REC	1	8/10/2012 5:12:35 PM

Matrix: SOIL

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

U Samples with CalcVal < MDL

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Lab Order 1208372

Date Reported: 8/13/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Enterprise Lateral 2B-24 Excavation #2

Lab ID: 1208372-007

Client Sample ID: SC-7

Collection Date: 8/6/2012 1:08:00 PM

Received Date: 8/8/2012 9:55:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	SE ORGANICS					Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/10/2012 2:33:10 PM
Surr: DNOP	102	77.6-140		%REC	1	8/10/2012 2:33:10 PM
EPA METHOD 8015B: GASOLINE R.	ANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/10/2012 5:42:44 PM
Surr: BFB	82.2	84-116	S	%REC	1	8/10/2012 5:42:44 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.050		mg/Kg	1	8/10/2012 5:42:44 PM
Toluene	ND	0.050		mg/Kg	1	8/10/2012 5:42:44 PM
Ethylbenzene	ND	0.050		mg/Kg	1	8/10/2012 5:42:44 PM
Xylenes, Total	ND	0.099		mg/Kg	1	8/10/2012 5:42:44 PM
Surr: 4-Bromofluorobenzene	86.2	80-120		%REC	1	8/10/2012 5:42:44 PM

Matrix: SOIL

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

U Samples with CalcVal < MDL

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Lab Order 1208372

Date Reported: 8/13/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Enterprise Lateral 2B-24 Excavation #2

Lab ID: 1208372-008

Client Sample ID: SC-8

Collection Date: 8/6/2012 1:09:00 PM

Received Date: 8/8/2012 9:55:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN	GE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	8/10/2012 3:18:03 PM
Surr: DNOP	101	77.6-140	%REC	1	8/10/2012 3:18:03 PM
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/10/2012 6:13:12 PM
Surr: BFB	82.2	84-116	S %REC	1	8/10/2012 6:13:12 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.048	mg/Kg	1	8/10/2012 6:13:12 PM
Toluene	ND	0.048	mg/Kg	1	8/10/2012 6:13:12 PM
Ethylbenzene	ND	0.048	mg/Kg	1	8/10/2012 6:13:12 PM
Xylenes, Total	ND	0.096	mg/Kg	1	8/10/2012 6:13:12 PM
Surr: 4-Bromofluorobenzene	86.6	80-120	%REC	1	8/10/2012 6:13:12 PM

Matrix: SOIL

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

U Samples with CalcVal < MDL

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Lab Order 1208372

Date Reported: 8/13/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Enterprise Lateral 2B-24 Excavation #2

Lab ID: 1208372-009

Client Sample ID: SC-9

Collection Date: 8/6/2012 1:10:00 PM

Received Date: 8/8/2012 9:55:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/13/2012 8:20:44 AM
Surr: DNOP	96.5	77.6-140	%REC	1	8/13/2012 8:20:44 AM
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	8/10/2012 6:43:15 PM
Surr: BFB	99.4	84-116	%REC	1	8/10/2012 6:43:15 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.046	mg/Kg	1	8/10/2012 6:43:15 PM
Toluene	ND	0.046	mg/Kg	1	8/10/2012 6:43:15 PM
Ethylbenzene	ND	0.046	mg/Kg	1	8/10/2012 6:43:15 PM
Xylenes, Total	ND	0.092	mg/Kg	1	8/10/2012 6:43:15 PM
Surr: 4-Bromofluorobenzene	104	80-120	%REC	1	8/10/2012 6:43:15 PM

Matrix: SOIL

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
- U Samples with CalcVal < MDL

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Lab Order 1208372

Date Reported: 8/13/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Enterprise Lateral 2B-24 Excavation #2

Lab ID: 1208372-010

Project:

Client Sample ID: SC-10

Collection Date: 8/6/2012 1:11:00 PM

Received Date: 8/8/2012 9:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	8/13/2012 8:42:27 AM
Surr: DNOP	96.5	77.6-140	%REC	1	8/13/2012 8:42:27 AM
EPA METHOD 8015B: GASOLINE R.	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/10/2012 11:15:10 PM
Surr: BFB	99.5	84-116	%REC	1	8/10/2012 11:15:10 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.049	mg/Kg	1	8/10/2012 11:15:10 PM
Toluene	ND	0.049	mg/Kg	1	8/10/2012 11:15:10 PM
Ethylbenzene	ND	0.049	mg/Kg	1	8/10/2012 11:15:10 PM
Xylenes, Total	ND	0.098	mg/Kg	1	8/10/2012 11:15:10 PM
Surr: 4-Bromofluorobenzene	105	80-120	%REC	1	8/10/2012 11:15:10 PM

Matrix: SOIL

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
- U Samples with CalcVal < MDL

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Lab Order 1208372

Date Reported: 8/13/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Enterprise Lateral 2B-24 Excavation #2

Lab ID: 1208372-011

Project:

Client Sample ID: SC-11

Collection Date: 8/6/2012 1:12:00 PM

Received Date: 8/8/2012 9:55:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	8/10/2012 3:40:39 PM
Surr: DNOP	103	77.6-140	%REC	1	8/10/2012 3:40:39 PM
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/10/2012 11:45:24 PM
Surr: BFB	95.0	84-116	%REC	1	8/10/2012 11:45:24 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.047	mg/Kg	1	8/10/2012 11:45:24 PM
Toluene	ND	0.047	mg/Kg	1	8/10/2012 11:45:24 PM
Ethylbenzene	ND	0.047	mg/Kg	1	8/10/2012 11:45:24 PM
Xylenes, Total	ND	0.093	mg/Kg	1	8/10/2012 11:45:24 PM
Surr: 4-Bromofluorobenzene	99.9	80-120	%REC	1	8/10/2012 11:45:24 PM

Matrix: SOIL

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
- U Samples with CalcVal < MDL

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Lab Order 1208372

Date Reported: 8/13/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Enterprise Lateral 2B-24 Excavation #2

Lab ID: 1208372-012

Matrix: SOIL

Collection Date: 8/6/2012 1:13:00 PM

Client Sample ID: SC-12

Received Date: 8/8/2012 9:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	8/10/2012 4:03:10 PM
Surr: DNOP	100	77.6-140	%REC	1	8/10/2012 4:03:10 PM
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	8/11/2012 12:15:27 AM
Surr: BFB	100	84-116	%REC	1	8/11/2012 12:15:27 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.046	mg/Kg	1	8/11/2012 12:15:27 AM
Toluene	ND	0.046	mg/Kg	1	8/11/2012 12:15:27 AM
Ethylbenzene	ND	0.046	mg/Kg	1	8/11/2012 12:15:27 AM
Xylenes, Total	ND	0.093	mg/Kg	1	8/11/2012 12:15:27 AM
Surr: 4-Bromofluorobenzene	106	80-120	%REC	1	8/11/2012 12:15:27 AM

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

U Samples with CalcVal < MDL

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Lab Order 1208372

Date Reported: 8/13/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Enterprise Lateral 2B-24 Excavation #2

Lab ID: 1208372-013

Matrix: SOIL

Collection Date: 8/6/2012 1:14:00 PM

Client Sample ID: SC-13

Received Date: 8/8/2012 9:55:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/10/2012 4:25:43 PM
Surr: DNOP	98.5	77.6-140	%REC	1	8/10/2012 4:25:43 PM
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/11/2012 12:45:31 AM
Surr: BFB	92.9	84-116	%REC	1	8/11/2012 12:45:31 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.049	mg/Kg	1	8/11/2012 12:45:31 AM
Toluene	ND	0.049	mg/Kg	1	8/11/2012 12:45:31 AM
Ethylbenzene	ND	0.049	mg/Kg	1	8/11/2012 12:45:31 AM
Xylenes, Total	ND	0.097	mg/Kg	1	8/11/2012 12:45:31 AM
Surr: 4-Bromofluorobenzene	97.6	80-120	%REC	1	8/11/2012 12:45:31 AM

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
- U Samples with CalcVal < MDL

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Lab Order 1208372

Date Reported: 8/13/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Enterprise Lateral 2B-24 Excavation #2

Lab ID: 1208372-014

Project:

Matrix: SOIL

Client Sample ID: SC-14

Collection Date: 8/6/2012 1:15:00 PM **Received Date:** 8/8/2012 9:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN	GE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/10/2012 4:48:13 PM
Surr: DNOP	105	77.6-140	%REC	1	8/10/2012 4:48:13 PM
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/11/2012 1:15:32 AM
Surr: BFB	111	84-116	%REC	1	8/11/2012 1:15:32 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.049	mg/Kg	1	8/11/2012 1:15:32 AM
Toluene	ND	0.049	mg/Kg	1	8/11/2012 1:15:32 AM
Ethylbenzene	ND	0.049	mg/Kg	1	8/11/2012 1:15:32 AM
Xylenes, Total	ND	0.097	mg/Kg	1	8/11/2012 1:15:32 AM
Surr: 4-Bromofluorobenzene	116	80-120	%REC	1	8/11/2012 1:15:32 AM

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

U Samples with CalcVal < MDL

Page 14 of 17

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1208372**

13-Aug-12

Client:	Animas Environmental Services
Project:	Enterprise Lateral 2B-24 Excavation #2

Sample ID MB-3264 SampType: MBLK TestCode: EPA Method 8015B: Diesel Range Organics Client ID: **PBS** Batch ID: 3264 RunNo: 4775 Analysis Date: 8/10/2012 SeqNo: 134569 Prep Date: 8/9/2012 Units: mg/Kg SPK value SPK Ref Val %REC LowLimit Result PQL HighLimit %RPD **RPDLimit** Analyte Qual 10 Diesel Range Organics (DRO) ND Surr: DNOP 9.7 10.00 96.9 77.6 140

SampType: LCS TestCode: EPA Method 8015B: Diesel Range Organics Sample ID LCS-3264 Client ID: LCSS Batch ID: 3264 RunNo: 4775 Prep Date: 8/9/2012 Analysis Date: 8/10/2012 SeqNo: 134693 Units: mg/Kg %REC **HighLimit** %RPD Analyte Result PQL SPK value SPK Ref Val LowLimit **RPDLimit** Qual Diesel Range Organics (DRO) 38 10 52.6 50.00 76.0 130 Surr: DNOP 5.3 5 000 106 776 140

Sample ID MB-3262 SampType: MBLK TestCode: EPA Method 8015B: Diesel Range Organics Client ID: PBS Batch ID: 3262 RunNo: 4775 Prep Date: 8/9/2012 Analysis Date: 8/10/2012 SeqNo: 134715 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Analyte Result Qual Diesel Range Organics (DRO) ND 10 Surr: DNOP 10 10.00 100 77.6 140

TestCode: EPA Method 8015B: Diesel Range Organics Sample ID LCS-3262 SampType: LCS Client ID: LCSS Batch ID: 3262 RunNo: 4775 Analysis Date: 8/10/2012 SeqNo: 134717 Units: mg/Kg Prep Date: 8/9/2012 Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 40 10 50.00 79.5 52.6 130 Surr: DNOP 5.1 5.000 102 77.6 140

Sample ID MB-3288 SampType: MBLK TestCode: EPA Method 8015B: Diesel Range Organics Client ID: PBS Batch ID: 3288 RunNo: 4810 Prep Date: 8/13/2012 SeqNo: 135920 Units: %REC Analysis Date: 8/13/2012 SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Result PQL LowLimit Qual Analyte 9.7 10.00 97.5 77.6 140 Surr: DNOP

Sample ID LCS-3288 SampType: LCS TestCode: EPA Method 8015B: Diesel Range Organics Batch ID: 3288 RunNo: 4810 Client ID: LCSS Prep Date: 8/13/2012 Analysis Date: 8/13/2012 SeqNo: 135921 Units: %REC PQL SPK value SPK Ref Val %REC LowLimit **HighLimit** %RPD **RPDLimit** Qual Analyte Result Surr: DNOP 4.2 5.000 83.6 77.6 140

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 15 of 17

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1208372

13-Aug-12

Client:

Animas Environmental Services

Project:

Enterprise Lateral 2B-24 Excavation #2

Sample ID MB-3263	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015B: Gaso	line Rang	е	
Client ID: PBS	Batch	ID: 32	63	R	RunNo: 4	788				
Prep Date: 8/9/2012	Analysis D	ate: 8/	10/2012	S	SeqNo: 1	35570	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	830		1000		82.6	84	116			S

Sample ID LCS-3263	SampType: LCS			TestCode: EPA Method 8015B: Gasoline Range						
Client ID: LCSS	Batch	ID: 32	63	R	RunNo: 4	788				
Prep Date: 8/9/2012	Analysis Da	ate: 8/	10/2012	S	SeqNo: 1	35574	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	88.4	85	115			
Surr: BFB	1000		1000		101	84	116			

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 16 of 17

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1208372

13-Aug-12

Client:

Animas Environmental Services

Project:

Enterprise Lateral 2B-24 Excavation #2

Sample ID MB-3263	SampT	ype: ME	BLK	TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	PBS Batch ID: 3263 RunNo: 4788									
Prep Date: 8/9/2012	Analysis D	ate: 8/	10/2012	8	eqNo: 1	35596	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.89		1.000		88.5	80	120			

Sample ID LCS-3263 SampType: LCS TestCode: EPA Method 8021B: Volatiles										
Client ID: LCSS Batch ID: 3263 RunNo: 4788				788						
Prep Date: 8/9/2012	Analysis D	Date: 8/	10/2012	8	SeqNo: 1	35600	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.050	1.000	0	91.7	76.3	117			
Toluene	0.94	0.050	1.000	0	94.2	80	120			
Ethylbenzene	0.96	0.050	1.000	0	96.2	77	116			
Xylenes, Total	2.9	0.10	3.000	0	97.8	76.7	117			
Surr: 4-Bromofluorobenzene	0.99		1.000		98.8	80	120			

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 17 of 17



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105

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

Sample Log-In Check List

Work Order Number: 1208372 Client Name: **Animas Environmental** Received by/date: 08/08/12 8/8/2012 9:55:00 AM Logged By: **Lindsay Mangin** Completed By: **Lindsay Mangin** 8/8/2012 3:52:05 PM Reviewed By: Chain of Custod Not Present ✓ No 1. Were seals intact? Yes V No Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In 4 Coolers are present? (see 19. for cooler specific information) 5 Was an attempt made to cool the samples? NA I 6. Were all samples received at a temperature of >0° C to 6.0°C 7. Sample(s) in proper container(s)? 8 Sufficient sample volume for indicated test(s)? 9. Are samples (except VOA and ONG) properly preserved? NA : 10. Was preservative added to bottles? : No No VOA Vials V 11. VOA vials have zero headspace? 12. Were any sample containers received broken? No V # of preserved 13. Does paperwork match bottle labels? bottles checked (Note discrepancies on chain of custody) for pH: Yes V No (<2 or >12 unless noted) 14. Are matrices correctly identified on Chain of Custody? Adjusted? 15. Is it clear what analyses were requested? ✓ No 16. Were all holding times able to be met? (If no, notify customer for authorization.) Checked by: Special Handling (if applicable) 17. Was client notified of all discrepancies with this order? Yes No NA V Person Notified: Date: By Whom: Via: eMail Phone : Fax In Person Regarding: Client Instructions: 18. Additional remarks: 19. Cooler Information Seal Intact | Seal No | Cooler No Temp °C Condition Seal Date 2.0 Good

Client: Arras Enu. Services Standard Rush Project Name: Enterprise Lateral 36-34 Excausing #4 4901 Hawkins NE - Albuquerque, NM 87109	C	Chain-of-Custody Record			Turn-	Around	Time:							IAI			NIXA	TE		BIR	AE	NIT	·AI	
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Tell 1965 1967	Mailing	Address:	624	F. Comarche	20	3-24	E	+cau	ation #2		490)1 H									109			
Project Manager: Carry Project Manager:	trus	monte	n 1/1	7																				
Project Manager:	Phone #	#: 505	5-56L	1-2481	1																		12010	
Date Time Matrix Sample Request ID Container Type And An			.,-		Project Manager:			7	<u>(</u>	(ge					(4)					T	T	Т		
Date Time Matrix Sample Request ID Container Type And An	QA/QC Package:				-	Tami	Ros	5	3021	as or	/Die					, SC	CB's							
Date Time Matrix Sample Request ID Container Type And An									1,8 (8	Ö	3as					ď,								
Date Time Matrix Sample Request ID Container Type And An					Samp	oler: 7	hora	, Lo	ng	IME	핍) Bi	=	=	Î		8	808						E
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If necessary samples submitted to Hall Environmental may be subcontracted in the analytical report.	17/n	1758	1/h	I Walt		*	A	O	8/08/12 0	1	2	7												



August 21, 2012

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

RE: **Release Assessment Report**

Lateral 2A-4 May 2012 Pipeline Release

San Juan County, New Mexico

Dear Mr. Dailey:

Animas Environmental Services, LLC

www.animasenvironmental.com

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

> Durango, Colorado 970-403-3274

RCVD AUG 30 '12 OIL CONS. DIV. DIST. 3

On May 3, 2012, Animas Environmental Services, LLC (AES) completed an assessment associated with a small release of natural gas and condensate from the Enterprise Products Company (Enterprise) 3.5-inch diameter Lateral 2A-4 pipeline. The release, which is located approximately 12 miles southeast of Bloomfield, San Juan County, New Mexico, resulted from a pipeline leak caused by corrosion.

1.0 Site Information

1.1 Location

Location - SW¼ SW¼, Section 13, T27N, R10W, San Juan County, New Mexico Latitude/Longitude - N36.57064 and W107.85246, respectively Surface Owner – Federal (Bureau of Land Management) Figure 1. Topographic Site Location Map Figure 2. Aerial Site Map

1.2 NMOCD Ranking

In accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases (August 1993), the release location was assigned a ranking score to establish release action levels. The ranking score was obtained in part by reviewing available records of nearby oil/gas wells using the NMOCD online database. A Replacement for C-144 form dated September 2004 for the Angel Peak 13M #1 well, located less than 200 feet east of the release area, reported the depth to groundwater as greater than 100 feet below ground surface (bgs). Additionally, the New Mexico Office of the State Engineer (NMOSE) database was reviewed for nearby water wells, and no registered water wells were reported to be located within 1,000 feet of the location.

Google Earth and the New Mexico Tech Petroleum Recovery Research Center online mapping tool (http://ford.nmt.edu/react/project.html) were accessed to aid in the identification of downgradient surface water. A tributary of the Armenta Canyon wash is located approximately 300 feet west of the release location. Based on this information, the release location was assessed a ranking score of 10.

1.3 Assessment and Mitigation

On May 3, 2012, Enterprise contractors completed an excavation along the Lateral 2A-4 pipeline using hand tools and hydrovac excavation equipment. Upon inspection, Enterprise determined that the release resulted from a pipeline leak caused by corrosion, and it was immediately repaired.

On the same day, AES guided the excavation by collecting 24 discrete samples for field screening for volatile organic compounds (VOCs). The final excavation dimensions measured approximately 33 feet by 12 feet by 10 feet deep and extended west an additional 150 square feet. The western extent of the excavation measured approximately 16 feet by 8 feet by 3 feet deep. AES collected confirmation soil samples from the side walls and base of the excavation and downgradient in the adjacent ephemeral stream for field screening and laboratory analysis. Soil sample locations and excavation extents are shown on Figure 3.

Approximately 120 cubic yards (excavated) and 10 barrels (hydrovac) of hydrocarbon contaminated soil were transported to the Envirotech Landfarm, near Bloomfield, New Mexico, for disposal. Following the collection of confirmation samples, the excavation was backfilled with clean imported material. A photograph log and disposal document are attached.

2.0 Soil Sampling

Prior to backfilling the excavation, AES collected 12 5-point composite samples (SC-1 through SC-12) for field screening and laboratory analysis. SC-1 through SC-3 and SC-6 through SC-12 were collected from the excavation base and sidewalls, and SC-4 and SC-5 were collected within the ephemeral wash adjacent to the release location.

2.1 Field Screening

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

2.2 Laboratory Analyses

The samples collected for laboratory analysis (SC-1 through SC-12) were placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto a sample chain of custody record. Samples were maintained on ice until delivery to the laboratory, Hall Environmental Analysis Laboratory (Hall), in Albuquerque, New Mexico. Samples were laboratory analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per U.S. Environmental Protection Agency (USEPA) Method 8021B;
- Total petroleum hydrocarbons (TPH) for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015B.

2.3 Field Screening and Laboratory Analytical Results

Soil field screening readings showed that VOC concentrations ranged from 47 ppm in SC-6 to 117 ppm in SC-11. All field screening readings were below the NMOCD action level of 100 ppm, except for SC-11 with 117 ppm.

Laboratory analytical results for benzene and total BTEX concentrations in each soil sample were below laboratory detection limits. TPH concentrations ranged from 5.0 mg/kg GRO in SC-5 up to 111 mg/kg in SC-12. All samples were below the NMOCD action level of 1,000 mg/kg for TPH. Field screening and laboratory analytical results are included in Table 1 and on Figure 3. Laboratory analytical reports are attached.

Table 1. Field Screening and Laboratory Analytical Results
Lateral 2A-4 May 2012 Pipeline Release

·			VOCs		Total	TPH-	TPH-
Sample	Sample	Depth	OVM	Benzene	BTEX	GRO	DRO
ID	Date	(ft)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
NMO	CD Action L	evel	100	10	50	1,0	00*
SC-1	5/3/12	3	87	<0.048	<0.241	<4.8	<9.9
SC-2	5/3/12	1 to 3	69	< 0.047	<0.236	<4.7	<10
SC-3	5/3/12	1 to 3	64	<0.048	<0.24	<4.8	<9.7
SC-4	5/3/12	0.75	58	<0.049	<0.244	5.8	<10
SC-5	5/3/12	0.75	67	<0.048	<0.24	5.0	<10
SC-6	5/3/12	1 to 8	47	<0.048	<0.24	<4.8	<9.8
SC-7	5/3/12	1 to 8	51	<0.047	<0.236	<4.7	<10
SC-8	5/3/12	10	48	<0.048	<0.241	<4.8	<9.8
SC-9	5/3/12	1 to 8	81	<0.048	<0.241	<4.8	<9.9
SC-10	5/3/12	1 to 8	51	<0.049	<0.246	<4.9	<9.9

			VOCs		Total	ТРН-	ТРН-
Sample	Sample	Depth	OVM	Benzene	BTEX	GRO	DRO
ID	Date	(ft)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
NMOCD Action Level			100	10	50	1,0	00*
SC-11	5/3/12	1 to 10	117	<0.19	<0.95	<19	81
SC-12	5/3/12	1 to 10	89	<0.18	<0.91	22	89

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

3.0 Conclusions and Recommendations

NMOCD action levels for releases are specified in NMOCD's *Guidelines for Leaks, Spills, and Releases* (August 1993), and the release was assigned a ranking score of 10. Based on field observations, field screening values, and laboratory analytical results for benzene, total BTEX, and TPH, petroleum hydrocarbon impacted soils have been removed to below NMOCD action levels. No further work is recommended.

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

Sincerely,

Tami C. Ross, CHMM Project Manager

Elizabeth McNally, P.E.

Elizabeth V Mervelly

Attachments:

Figure 1. Topographic Site Location Map

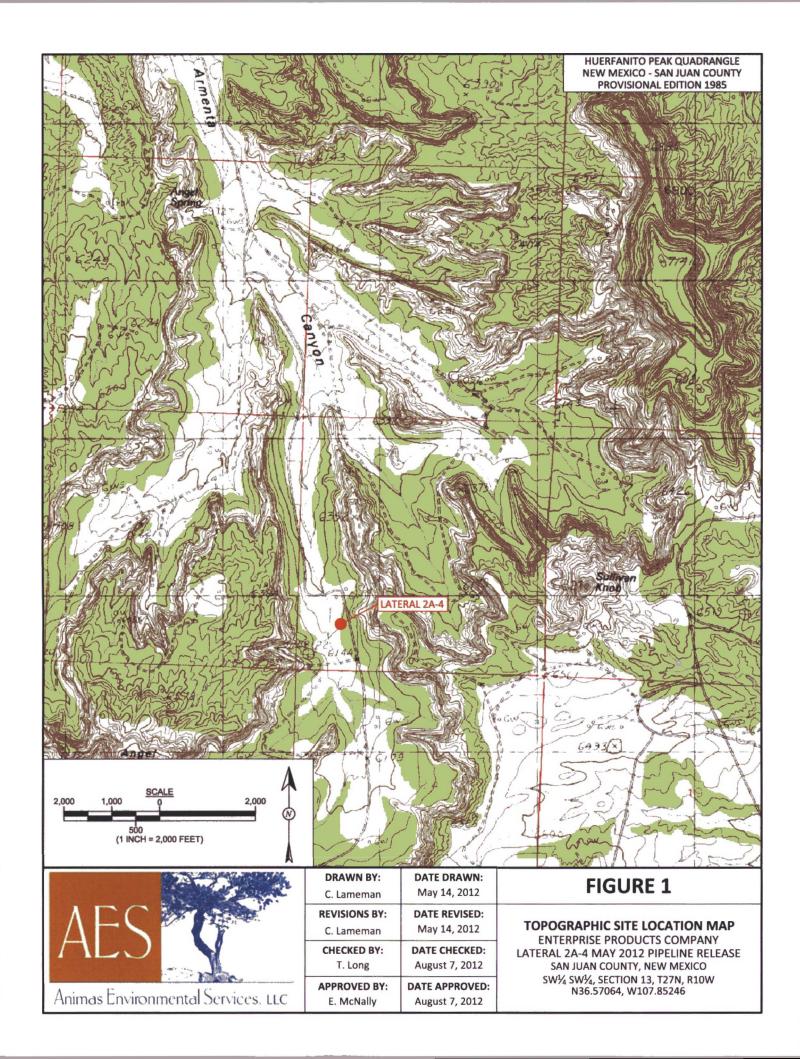
Figure 2. Aerial Site Map

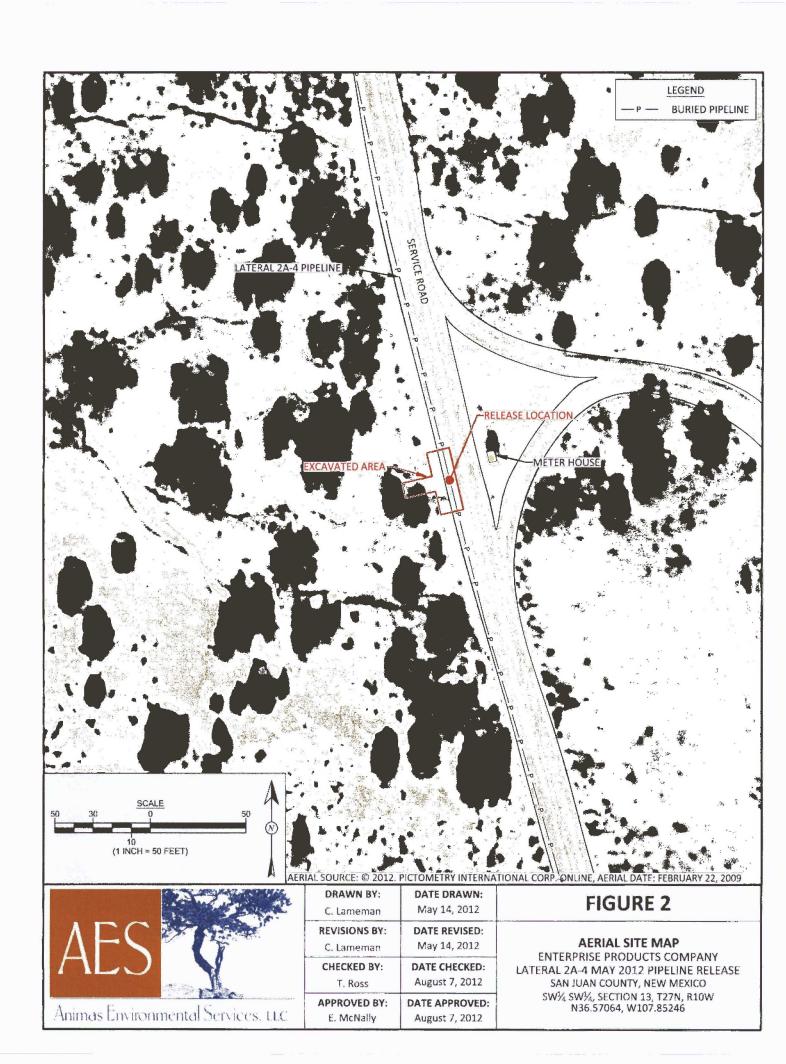
Figure 3. Soil Sample Locations and Results, May 2012

Photograph Log

Waste Disposal Document (Form C-138)

Laboratory Analytical Reports (Hall 1205268)





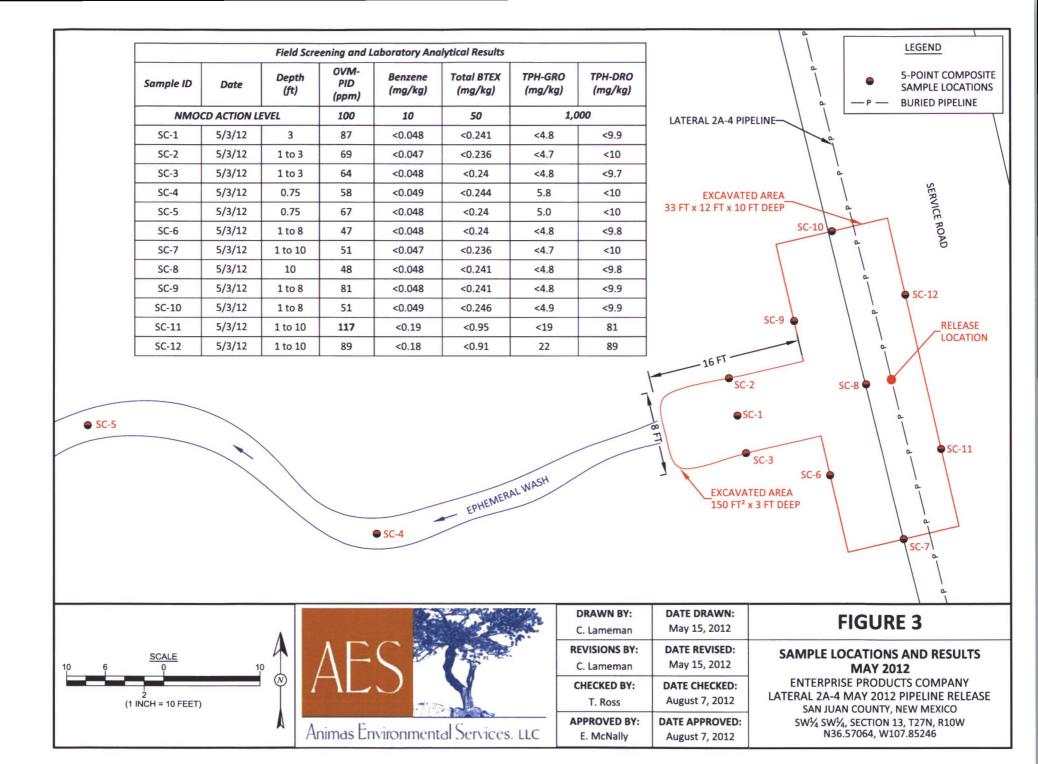


Photo #1

Client:
Enterprise Products
Company

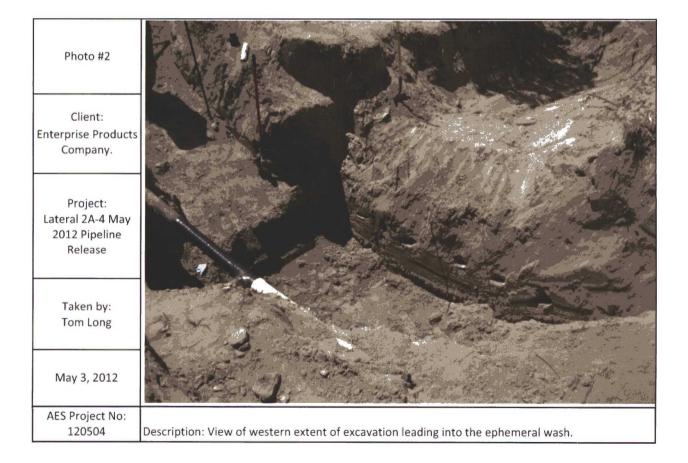
Project:
Lateral 2A-4 May
2012 Pipeline
Release

Taken by:
Tom Long

May 3, 2012

AES Project No:
120504

Description: View of the release location and main excavation trench.



District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

97057-0505

Form C-138 Revised March 12, 2007

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 *Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1.	Generator Name and Address:	Daylean (LITER
2	Enterprise Products Operating, LP.	Paykey: 6611580
2.	Originating Site: Lateral 2A-4 Gathering line	,
3.	Location of Material (Street Address, City, State or ULSTR):	N10.5
-	Unit N Sec 13, T27N R10W (N 36.57032 W 107.85200), San Juan County	y NM
4. So	Source and Description of Waste: urce: Pipeline Release	
De	scription: Exempt stained soil from a pipeline release and associated remediati	
5.	timated Volume30yd ³ / bbls Known Volume (to be entered by the opera GENERATOR CERTIFICATION STATEME)	,
٥,	DENERATOR CERTIFICATION STATEMEN	VI OF WASIE STATUS
	, representative or authorized ag	ent forEnterprise Products Operating, LP
	SIGNATURE OF REPRESENTATIVE PRINT NAME	COMPANY NAME
	hereby certify that according to the Resource Conservation and Recovery Act (by 1988 regulatory determination, the above described waste is: (Check the approximation)	
	RCRA Exempt: Oil field wastes generated from oil and gas exploration a exempt waste. Operator Use Only: Waste Acceptance Frequency	
	RCRA Non-Exempt: Oil field waste which is non-hazardous that does no	
	characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or li subpart D, as amended. The following documentation is attached to demonst	
	the appropriate items)	the the above-described waste is non-nazardous. (Cheek
	MSDS Information ☐ RCRA Hazardous Waste Analysis ☒ Process Kno	owledge
	GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION	N STATEMENT FOR LANDFARMS
I, _tes	Aaron Dailey, representative for Enterprise Products Operating/sign the Generator Waste Testing Certification.	ating, LP_ authorize Envirotech to complete the required
I,	Rendu Runuss, representative for Envirotech Inc	do hereby certify that representative samples of
	oil field waste have been subjected to the paint filter test and tested for chlorid	e content and that the samples have been found to
	nform to the specific requirements applicable to landfarms pursuant to Section I imples are attached to demonstrate the above-described waste conform to the req	
5.	Transporter:	
EN	AS—Energy Maintenance Services / NITA VICA	
0	OCD Permitted Surface Waste Management Facility	
	Name and Facility Permit #: Envirotech Inc. Soil Remediation Facility	Permit # NM-01-0011
	Address of Facility: Hilltop, New Mexico	
	Method of Treatment and/or Disposal: ☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Land	farm Landfill Other
V	Vaste Acceptance Status:	DENIED (Must Be Maintained As Permanent Record)
	RINT NAME: Kendra Runung TITLE: Waste Constitution of Title: Waste Constitution of Title: Surface Waste Management Facility Authorized Agent	TOTAINATOR DATE: 5/2/12 TELEPHONE NO.: 632-0615



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

May 15, 2012

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

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

RE: Enterprise Lateral 2A-4 OrderNo.: 1205268

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory received 12 sample(s) on 5/4/2012 for the analyses presented in the following report.

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

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1205268

Date Reported: 5/15/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Enterprise Lateral 2A-4

Lab ID: 1205268-001

Client Sample ID: SC-1

Collection Date: 5/3/2012

Received Date: 5/4/2012 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/8/2012 10:17:28 AM
Surr: DNOP	104	77.4-131	%REC	1	5/8/2012 10:17:28 AM
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/8/2012 2:26:58 PM
Surr: BFB	104	69.7-121	%REC	1	5/8/2012 2:26:58 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.048	mg/Kg	1	5/8/2012 2:26:58 PM
Toluene	ND	0.048	mg/Kg	1	5/8/2012 2:26:58 PM
Ethylbenzene	ND	0.048	mg/Kg	1	5/8/2012 2:26:58 PM
Xylenes, Total	ND	0.097	mg/Kg	1	5/8/2012 2:26:58 PM
Surr: 4-Bromofluorobenzene	94.0	80-120	%REC	1	5/8/2012 2:26:58 PM

Matrix: SOIL

- */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

Lab Order 1205268

Date Reported: 5/15/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Enterprise Lateral 2A-4 Project:

Lab ID: 1205268-002 Client Sample ID: SC-2

Collection Date: 5/3/2012

Received Date: 5/4/2012 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG		Analyst: JMP			
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/8/2012 10:38:56 AM
Surr: DNOP	102	77.4-131	%REC	1	5/8/2012 10:38:56 AM
EPA METHOD 8015B: GASOLINE RA	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/8/2012 2:55:46 PM
Surr: BFB	105	69.7-121	%REC	1	5/8/2012 2:55:46 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.047	mg/Kg	1	5/8/2012 2:55:46 PM
Toluene	ND	0.047	mg/Kg	1	5/8/2012 2:55:46 PM
Ethylbenzene	ND	0.047	mg/Kg	1	5/8/2012 2:55:46 PM
Xylenes, Total	ND	0.095	mg/Kg	1	5/8/2012 2:55:46 PM
Surr: 4-Bromofluorobenzene	94.0	80-120	%REC	1	5/8/2012 2:55:46 PM

Matrix: SOIL

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

Lab Order 1205268

Date Reported: 5/15/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Enterprise Lateral 2A-4

Lab ID: 1205268-003

Client Sample ID: SC-3

Collection Date: 5/3/2012

Received Date: 5/4/2012 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG		Analyst: JMP			
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	5/8/2012 11:00:39 AM
Surr: DNOP	103	77.4-131	%REC	1	5/8/2012 11:00:39 AM
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/8/2012 3:24:34 PM
Surr: BFB	105	69.7-121	%REC	1	5/8/2012 3:24:34 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.048	mg/Kg	1	5/8/2012 3:24:34 PM
Toluene	ND	0.048	mg/Kg	1	5/8/2012 3:24:34 PM
Ethylbenzene	ND	0.048	mg/Kg	1	5/8/2012 3:24:34 PM
Xylenes, Total	ND	0.096	mg/Kg	1	5/8/2012 3:24:34 PM
Surr: 4-Bromofluorobenzene	93.4	80-120	%REC	1	5/8/2012 3:24:34 PM

Matrix: SOIL

- */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

Lab Order 1205268

Date Reported: 5/15/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Enterprise Lateral 2A-4

Lab ID: 1205268-004

Client Sample ID: SC-4

Collection Date: 5/3/2012

Received Date: 5/4/2012 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG		Analyst: JMP			
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/8/2012 11:46:01 AM
Surr: DNOP	105	77.4-131	%REC	1	5/8/2012 11:46:01 AM
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: NSB
Gasoline Range Organics (GRO)	5.8	4.9	mg/Kg	1	5/8/2012 11:04:47 PM
Surr: BFB	111	69.7-121	%REC	1	5/8/2012 11:04:47 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.049	mg/Kg	1	5/8/2012 11:04:47 PM
Toluene	ND	0.049	mg/Kg	1	5/8/2012 11:04:47 PM
Ethylbenzene	ND	0.049	mg/Kg	1	5/8/2012 11:04:47 PM
Xylenes, Total	ND	0.097	mg/Kg	1	5/8/2012 11:04:47 PM
Surr: 4-Bromofluorobenzene	92.6	80-120	%REC	1	5/8/2012 11:04:47 PM

Matrix: SOIL

- */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

Analytical Report Lab Order 1205268

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/15/2012

CLIENT: Animas Environmental Services

Project: Enterprise Lateral 2A-4

Lab ID: 1205268-005

Client Sample ID: SC-5

Collection Date: 5/3/2012

Received Date: 5/4/2012 10:00:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGI	ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/8/2012 12:07:31 PM
Surr: DNOP	109	77.4-131	%REC	1	5/8/2012 12:07:31 PM
EPA METHOD 8015B: GASOLINE RAI	NGE				Analyst: NSB
Gasoline Range Organics (GRO)	5.0	4.8	mg/Kg	1	5/8/2012 11:33:31 PM
Surr: BFB	112	69.7-121	%REC	1	5/8/2012 11:33:31 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.048	mg/Kg	1	5/8/2012 11:33:31 PM
Toluene	ND	0.048	mg/Kg	1	5/8/2012 11:33:31 PM
Ethylbenzene	ND	0.048	mg/Kg	1	5/8/2012 11:33:31 PM
Xylenes, Total	ND	0.096	mg/Kg	1	5/8/2012 11:33:31 PM
Surr: 4-Bromofluorobenzene	94.8	80-120	%REC	1	5/8/2012 11:33:31 PM

Matrix: SOIL

- */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

Lab Order 1205268

Date Reported: 5/15/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Enterprise Lateral 2A-4

Lab ID: 1205268-006

Client Sample ID: SC-6

Collection Date: 5/3/2012

Received Date: 5/4/2012 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG		Analyst: JMP			
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/8/2012 12:29:09 PM
Surr: DNOP	103	77.4-131	%REC	1	5/8/2012 12:29:09 PM
EPA METHOD 8015B: GASOLINE RA	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/9/2012 12:02:13 AM
Surr: BFB	105	69.7-121	%REC	1	5/9/2012 12:02:13 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.048	mg/Kg	1	5/9/2012 12:02:13 AM
Toluene	ND	0.048	mg/Kg	1	5/9/2012 12:02:13 AM
Ethylbenzene	ND	0.048	mg/Kg	1	5/9/2012 12:02:13 AM
Xylenes, Total	ND	0.096	mg/Kg	1	5/9/2012 12:02:13 AM
Surr: 4-Bromofluorobenzene	94.1	80-120	%REC	1	5/9/2012 12:02:13 AM

Matrix: SOIL

- */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

Analytical Report Lab Order 1205268

Date Reported: 5/15/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Enterprise Lateral 2A-4

Lab ID: 1205268-007

Client Sample ID: SC-7

Collection Date: 5/3/2012

Received Date: 5/4/2012 10:00:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	SE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/8/2012 12:50:52 PM
Surr: DNOP	105	77.4-131	%REC	1	5/8/2012 12:50:52 PM
EPA METHOD 8015B: GASOLINE RA	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/9/2012 12:30:57 AM
Surr: BFB	105	69.7-121	%REC	1	5/9/2012 12:30:57 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.047	mg/Kg	1	5/9/2012 12:30:57 AM
Toluene	ND	0.047	mg/Kg	1	5/9/2012 12:30:57 AM
Ethylbenzene	ND	0.047	mg/Kg	1	5/9/2012 12:30:57 AM
Xylenes, Total	ND	0.095	mg/Kg	1	5/9/2012 12:30:57 AM
Surr: 4-Bromofluorobenzene	93.4	80-120	%REC	1	5/9/2012 12:30:57 AM

Matrix: SOIL

- */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

Lab Order 1205268

Date Reported: 5/15/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Enterprise Lateral 2A-4

Lab ID: 1205268-008 Client Sample ID: SC-8

Collection Date: 5/3/2012

Received Date: 5/4/2012 10:00:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/8/2012 1:12:32 PM
Surr: DNOP	104	77.4-131	%REC	1	5/8/2012 1:12:32 PM
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/9/2012 12:59:37 AM
Surr: BFB	106	69.7-121	%REC	1	5/9/2012 12:59:37 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.048	mg/Kg	1	5/9/2012 12:59:37 AM
Toluene	ND	0.048	mg/Kg	1	5/9/2012 12:59:37 AM
Ethylbenzene	ND	0.048	mg/Kg	1	5/9/2012 12:59:37 AM
Xylenes, Total	ND	0.097	mg/Kg	1	5/9/2012 12:59:37 AM
Surr: 4-Bromofluorobenzene	94.4	80-120	%REC	1	5/9/2012 12:59:37 AM

Matrix: SOIL

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

Analytical Report Lab Order 1205268

Date Reported: 5/15/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Enterprise Lateral 2A-4

Lab ID: 1205

1205268-009

Client Sample ID: SC-9

Collection Date: 5/3/2012

Received Date: 5/4/2012 10:00:00 AM

Analyses	Result	RL Qu	ial Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN	GE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/8/2012 1:34:07 PM
Surr: DNOP	104	77.4-131	%REC	1	5/8/2012 1:34:07 PM
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/9/2012 1:28:19 AM
Surr: BFB	105	69.7-121	%REC	1	5/9/2012 1:28:19 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.048	mg/Kg	1	5/9/2012 1:28:19 AM
Toluene	ND	0.048	mg/Kg	1	5/9/2012 1:28:19 AM
Ethylbenzene	ND	0.048	mg/Kg	1	5/9/2012 1:28:19 AM
Xylenes, Total	ND	0.097	mg/Kg	1	5/9/2012 1:28:19 AM
Surr: 4-Bromofluorobenzene	94.2	80-120	%REC	1	5/9/2012 1:28:19 AM

Matrix: SOIL

- */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

Lab Order 1205268

Date Reported: 5/15/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Enterprise Lateral 2A-4

Lab ID: 1205268-010

Client Sample ID: SC-10

Collection Date: 5/3/2012

Received Date: 5/4/2012 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/8/2012 1:55:54 PM
Surr: DNOP	103	77.4-131	%REC	1	5/8/2012 1:55:54 PM
EPA METHOD 8015B: GASOLINE RA	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/9/2012 1:57:05 AM
Surr: BFB	105	69.7-121	%REC	1	5/9/2012 1:57:05 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.049	mg/Kg	1	5/9/2012 1:57:05 AM
Toluene	ND	0.049	mg/Kg	1	5/9/2012 1:57:05 AM
Ethylbenzene	ND	0.049	mg/Kg	1	5/9/2012 1:57:05 AM
Xylenes, Total	ND	0.099	mg/Kg	1	5/9/2012 1:57:05 AM
Surr: 4-Bromofluorobenzene	95.1	80-120	%REC	1	5/9/2012 1:57:05 AM

Matrix: SOIL

- */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

Lab Order 1205268

Date Reported: 5/15/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-11

Project: Enterprise Lateral 2A-4 Collection Date: 5/3/2012

Lab ID: 1205268-011

Received Date: 5/4/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	SE ORGANICS					Analyst: JMP
Diesel Range Organics (DRO)	81	9.6		mg/Kg	1	5/8/2012 2:17:32 PM
Surr: DNOP	107	77.4-131		%REC	1	5/8/2012 2:17:32 PM
EPA METHOD 8015B: GASOLINE RA	ANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	19		mg/Kg	4	5/9/2012 3:14:55 PM
Surr: BFB	122	69.7-121	S	%REC	4	5/9/2012 3:14:55 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.19		mg/Kg	4	5/9/2012 3:14:55 PM
Toluene	ND	0.19		mg/Kg	4	5/9/2012 3:14:55 PM
Ethylbenzene	ND	0.19		mg/Kg	4	5/9/2012 3:14:55 PM
Xylenes, Total	ND	0.38		mg/Kg	4	5/9/2012 3:14:55 PM
Surr: 4-Bromofluorobenzene	94.2	80-120		%REC	4	5/9/2012 3:14:55 PM

Matrix: SOIL

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

Lab Order 1205268

Date Reported: 5/15/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Enterprise Lateral 2A-4

Lab ID: 1205268-012 Client Sample ID: SC-12

Collection Date: 5/3/2012

Received Date: 5/4/2012 10:00:00 AM

Analyses	Result	RL (Qual 1	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS					Analyst: JMP
Diesel Range Organics (DRO)	89	10		mg/Kg	1	5/8/2012 2:39:14 PM
Surr: DNOP	107	77.4-131		%REC	1	5/8/2012 2:39:14 PM
EPA METHOD 8015B: GASOLINE RA	NGE					Analyst: NSB
Gasoline Range Organics (GRO)	22	18		mg/Kg	4	5/9/2012 3:43:42 PM
Surr: BFB	126	69.7-121	S	%REC	4	5/9/2012 3:43:42 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.18		mg/Kg	4	5/9/2012 3:43:42 PM
Toluene	ND	0.18		mg/Kg	4	5/9/2012 3:43:42 PM
Ethylbenzene	ND	0.18		mg/Kg	4	5/9/2012 3:43:42 PM
Xylenes, Total	ND	0.37		mg/Kg	4	5/9/2012 3:43:42 PM
Surr: 4-Bromofluorobenzene	93.3	80-120		%REC	4	5/9/2012 3:43:42 PM

Matrix: SOIL

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1205268

15-May-12

Client:

Animas Environmental Services

Project:

Enterprise Lateral 2A-4

Sample ID MB-1831

SampType: MBLK

TestCode: EPA Method 8015B: Diesel Range Organics

Client ID: PBS

Batch ID: 1831

PQL

10

RunNo: 2616

Prep Date: 5/7/2012

Analysis Date: 5/8/2012

SeqNo: 73119 %REC

Units: mg/Kg

Analyte

Result

HighLimit

Qual

Diesel Range Organics (DRO) Surr: DNOP

ND 8.8

10.00

SPK value SPK Ref Val

88.0

131

RPDLimit

Sample ID LCS-1831

SampType: LCS Batch ID: 1831

RunNo: 2616

TestCode: EPA Method 8015B: Diesel Range Organics

%RPD

%RPD

Client ID: LCSS Prep Date: 5/7/2012

Analysis Date: 5/8/2012

SeqNo: 73159

Units: mg/Kg

HighLimit

RPDLimit

Analyte Diesel Range Organics (DRO)

PQL Result

SPK value SPK Ref Val 50.00

%REC 101 88.4

62.7

139

Qual

Surr: DNOP

51 10 0

77.4

LowLimit

LowLimit

77.4

131

4.4

5.000

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

Value above quantitation range

J Analyte detected below quantitation limits RPD outside accepted recovery limits

Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND

Reporting Detection Limit

Page 13 of 15

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1205268

15-May-12

Client:

Animas Environmental Services

Project:

Enterprise Lateral 2A-4

Troject.	C Laterar 21	1-1								
Sample ID MB-1829	SampTy	ype: ME	BLK	Tes	tCode: El	PA Method	8015B: Gaso	line Rang	e	
Client ID: PBS	Batch	ID: 18	29	F	RunNo: 2	654				
Prep Date: 5/7/2012	Analysis Da	ate: 5/	8/2012	S	SeqNo: 7	3700	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1,000		1,000		104	69.7	121			
Sample ID LCS-1829	SampTy	/pe: LC	s	Tes	tCode: El	PA Method	8015B: Gaso	line Rang	e	
Client ID: LCSS	Batch	ID: 18	29	F	RunNo: 2	654				
Prep Date: 5/7/2012	Analysis Da	ate: 5/	8/2012	S	SeqNo: 7	3701	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	115	98.5	133			
Surr: BFB	1,100		1,000		111	69.7	121			
Sample ID 1205257-001AMS	SampTy	/pe: MS	3	Test	tCode: El	A Method	8015B: Gaso	line Rang	e	
011 115 5 1166										

								_		
Client ID: BatchQC	Batch	ID: 18	29	R	RunNo: 2	654				
Prep Date: 5/7/2012	Analysis D	ate: 5/	8/2012	S	SeqNo: 7	3716	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	42	25	24.85	26.81	60.7	85.4	147			S
Surr: BFB	6,300		4,970		128	69.7	121			S

Sample ID 1205257-001AMS	D SampT	ype: MS	SD	Tes	tCode: El	PA Method	8015B: Gaso	line Rang	е	
Client ID: BatchQC	Batch	ID: 18	29	F	RunNo: 2	654				
Prep Date: 5/7/2012	Analysis D	ate: 5/	8/2012	S	SeqNo: 7	3717	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	48	25	24.53	26.81	84.9	85.4	147	12.8	19.2	S
Surr: BFB	6.200		4.907		126	69.7	121	0	0	S

Qualifiers

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

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

Page 14 of 15

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1205268

15-May-12

Client:

Animas Environmental Services

Project:

Enterprise Lateral 2A-4

Sample ID MB-1829	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batch	Batch ID: 1829 RunNo: 2654								
Prep Date: 5/7/2012	Analysis D	ate: 5/	8/2012	5	SeqNo: 7	3754	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.94		1.000		94.4	80	120			
Sample ID LCS-1829	SampT	ype: LC	S	TestCode: EPA Method 8021B: Volatiles						
011 115 1000		15 40		_						

Sample ID LCS-1829	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batch	ID: 18	29	F	RunNo: 2	654				
Prep Date: 5/7/2012	Analysis D	ate: 5/	8/2012	S	SeqNo: 7	3755	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.050	1.000	0	91.3	83.3	107			
Toluene	0.95	0.050	1.000	0	95.2	74.3	115			
Ethylbenzene	0.94	0.050	1.000	0	94.0	80.9	122			
Xylenes, Total	2.8	0.10	3.000	0	94.5	85.2	123			
Surr: 4-Bromofluorobenzene	0.99		1.000		98.6	80	120			

Sample ID 1205264-001AMS	SampT	ype: MS	3	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: BatchQC	Batch	ID: 182	29	F	RunNo: 2	654				
Prep Date: 5/7/2012	Analysis D	ate: 5/	8/2012	S	SeqNo: 7	3758	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.048	0.9671	0	96.7	67.2	113			
Toluene	0.99	0.048	0.9671	0.008608	102	62.1	116			
Ethylbenzene	0.97	0.048	0.9671	0	101	67.9	127			
Xylenes, Total	2.9	0.097	2.901	0	101	60.6	134			
Surr: 4-Bromofluorobenzene	0.97		0.9671		100	80	120			

Sample ID 1205264-001AM	SD SampT	mpType: MSD TestCode: EPA Method 8021B: Volatiles								
Client ID: BatchQC	Batch	1D: 18	29	F	RunNo: 2	654				
Prep Date: 5/7/2012	Analysis D	ate: 5/	8/2012	S	SeqNo: 7	3759	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.048	0.9506	0	93.9	67.2	113	4.68	14.3	
Toluene	0.96	0.048	0.9506	0.008608	100	62.1	116	2.90	15.9	
Ethylbenzene	0.96	0.048	0.9506	0	101	67.9	127	1.09	14.4	
Xylenes, Total	3.0	0.095	2.852	0	103	60.6	134	1.07	12.6	
Surr: 4-Bromofluorobenzene	0.99		0.9506		104	80	120	0	0	

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Page 15 of 15



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque. NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

													-
Clier	nt Name:	Animas En	vironmental	Í	Wo	ork Or	der I	Numb	oer:	1205268			
Rec	eived by/date	LM		05/04/	12								
Logg	jed By:	Michelle G	arcia	5/4/2012 10:0	0:00 AM				m	thall Garria			
Com	pleted By:	Michelle G	arcia	5/4/2012 3:39	:38 PM				m	italle Garria			
Revi	ewed By:	A		05/0	4/12								
Cha	in of Cust	ody	1	0 3 10	1 1								
	Were seals in	V				Yes		No		Not Present ✔	,		
• • •	Is Chain of C		olete?			Yes	v	No		Not Present			
	How was the					Cour	ier						
1 00	In												
<u>Log</u>		10.1	10 (· · · · · · · · · · · · · · · · · · ·	,			Na		A1A			
4.	Coolers are p	oresent? (see	e 19. for cooler sp	ecific informatio	n)	Yes	~	No		NA			
5.	Was an atter	npt made to	cool the samples	?		Yes	V	No		NA			
6.	Were all sam	ples receive	d at a temperature	e of >0° C to 6.	0°C	Yes	V	No		NA			
_	0		-:(-)0			Ver		No					
	Sample(s) in			(-)2		Yes							
-			for indicated test	20.1		Yes		No No					
-			A and ONG) prope	eriy preserved?		Yes				NA			
10.	Was preserv	ative added	to bottles?			Yes		No	*	NA			
11.	VOA vials ha	ve zero head	dspace?			Yes		No		No VOA Vials ✔	,		
12.	Were any sa	mple contain	ers received brok	en?		Yes		No	~				
	Does paperw					Yes	~	No		# of prese			
			hain of custody)							for pH:			
			entified on Chain o	if Custody?		Yes		No		Adii	(<2 o	or >12 unless noted)
			were requested?			Yes	7	No No		7 10/0	.0.00		
		_	authorization.)			168	•	NO		Chec	ked by:		
Spe	cial Handl	ing (if app	olicable)										
17.	Was client no	otified of all o	liscrepancies with	this order?		Yes		No		NA V	/		
	Person	Notified:	A CONTRACT WAS AND A CONTRACT OF THE CONTRACT	GOODIN COTTY TO THE REPORT AND THE PROPERTY.	Date	U-0.4-00ar	DE LANGET LA	ille si hakusilgan ilga re	Chanad WT	President High residual of the Trail.			
	By Who	m:	(1877)1989-0487420-588-05498-38L/PE-8L/TL-E-RL-E-RL-E-RL-E-RL-E-RL-E-RL-E-RL-E-	u Claffachich in Skitch Abria foarsmalaegta	Via:	eMai	il :	Ph	one	Fax In P	erson		
	Regardi	ng:	THE THE THE SECTION ASSESSMENT AND ASSESSMENT		NEWS SERVICE AND PROPERTY OF THE PROPERTY OF T	T CO DARRAGAS	ene-ni	LVS-673.ZEG-MR	190 t-p4 93 t4	myddigwydd hann dydnydu chunoc soc succes secundural nafr.	W.FAF-OF LL III - MAGIN-19	1000	
	Client Ir	structions:	THE PROPERTY OF THE PROPERTY O	PLUM TO COMPANY PLANS PROPERTY THE PROPERTY OF		MER MICHAELDH, JA CHA	OLT 49. BACKA, S	a. And Andrews Str.	and the second of	.70 м 1.180 не необъем перекоминератера (коре ле ле да учестве	NATION CONTINUES YOUR BOTTLESS AND	and the same of th	
18.	Additional rer	marks:											
10	Cooler Inf	mation											
19.	Cooler Infor	Temp °C	Condition Se	eal Intact Sea	INo Se	al Dat	te	1 9	Signe	ed By			
	1	3.4	Good Yes			J. 20 M		 `	- 9,11				

	hain-	of-Cu	stody Record	Turn-	Around	Time:						-	IA		E	MV	TE	20	NA	4E1	uT/	A I	
Client:	Anim	a) Enu	. Services		tandard		Rush				_									RA			•
				Proje	ect Name	En-	larprise								lenv								
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		on, NM		Proje	ct#:								5-39						4107				
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QA/Qe i	Package: dard		☐ Level 4 (Full Validation)		R	7 055 /	Kenner	mer Marianto	TMB's (8024)	(Gas or	(Gas/Diesel)					PO4,SO4)	PCB's						
Accredi	tation			Sami	pler: 7	ome)	Lon	7	MB.	TPH	9	=	=			102,	8082						6
□ NEL	AP	□ Othe	r	Ondo	(SIA)	V. Ye	S	is News	1	+	8015B	8.	90	AH		03,1	s / 8		(A)				Or N
	(Type)_			Sam	ole Tem	e Pari	će"		出出	MTBE	96 9	od 4	od 5	or	etals	Ž,	side	F) <u>-</u>				>
Date	Time	Matrix	Sample Request ID	Тур	ntainer e and #		ervative ype	17 (5.416-1918) 1946-5-748	9 4	BTEX + MI	TPH Method	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,CI,NO3,NO2,	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)				Air Ruhhlas
5-2-12		Sod	Sc-1	40	Jar	I	E	-001	X		X												
1			50-2					- 002	×		بد												
			50-3					-003	X		×												
			SC-4					- 004	x		k												
			SC-5					- 005	X		K												
			Sc-6					- 006	X		X												
			SC-7					- 007	X		X												
			SC-3					- 008	x		x												L
			SC-9					- 609	X		X												L
			SC-16					-0010	X		x												
			Sc-11					- OH	X		X												
V		4	50-12		V			- 1/2	X		X												
Date:	Time:	Relinquishe	comor Lung	Ch	ved by: Ved by:	Wo	eter If	Date Time 5/3/n 1624 Pate Time	Ren	narks	s: [3:11	17	6	En-	ter	pris	و					
3/12	f necessary.	samples sub	mitted to Hall Environmental may be subo	contracte	d to other a	ccreditéd	laboratori		s possi	bility.	Апу ѕі	ıb-con	tracted	d data	will be	clear	ty nota	ited or	the a	nalytical	report.		

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

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

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

Release Notification and Corrective Action

	-					OPERA	TOR		☐ Init	ial Report	\boxtimes	Fin	al Report
		nterprise Pro				Contact Aa							
		venue, Farm		M 87401			No. (505)599-22						
Facility Nar	ne Latera	2B-24 Pipe	line			Facility Typ	e Natural gas g	gathering	gline				
Surface Ow	ner BLM			Mineral C	wner	BLM			API No).			
				LOCA	TIO	N OF REI				_			
Unit Letter E	Section 22	Township 28N	Range 10W	Feet from the	Nortl	h/South Line	Feet from the	East/W	est Line	County San Juan			
		L	atitude_	N 36*648311 NAT		tude_W 107* E OF RELI		l degree	S)	RCVD NOV OIL CONS DIST	S. DI		
Type of Rele	Type of Release Natural gas Volume of Release: 700 MCF (estimated over time) Volume Recovered None										- 50		
Source of Re	lease corros	ion leak on pi	Date and H Unknown	lour of Occurrence	e		Hour of Disc 2 @ 11:00	covery					
Was Immediate Notice Given? ☐ Yes ☐ No ☐ Not Required ☐ If YES, To Whom? ☐ Brandon Powell (left message), Jonathan Kelly													
By Whom?							Iour 7.24.2012 @						
Was a Water	course Read		Yes 🗵	No		If YES, Vo	olume Impacting t	the Water	rcourse.				
If a Watercou	irse was Im	pacted, Descr	ibe Fully.'	t .									
been locked of conducted in	out, tagged of conjunction	out and render with the repa	red out of airs. Pleas	n Taken.*□ Mult service. Repairs se refer to the attac	were co	onducted the waird party corre	eek of August 6, ctive action repor	2012. En	nvironmei iils.	ntal confirmat	tion sa	mpli	ng was
		and Cleanup A		ten.*Please refer t	to the a	ttached third p	arty corrective ac	tion repo	rt for deta	ails and confir	rmatio	n sar	npling
regulations al public health should their or or the environ	Il operators or the envir operations h nment. In a	are required to ronment. The ave failed to a	o report ar acceptant adequately OCD accep	is true and comp nd/or file certain re te of a C-141 repo investigate and re tance of a C-141	elease ort by the emedia	notifications a he NMOCD m te contaminati	nd perform correct arked as "Final R on that pose a thr	ctive action eport" do eat to gro	ons for rel ses not rel ound wate	eases which r ieve the opera r, surface wat	may er ator of er, hu	idang liab man	ger ility health
							OIL CON	SERV	ATION	DIVISIO	N		
Signature:	Signature: Approved by Environmental Specialist: Approved by Environmental Specialist:												
Printed Name: Aaron Dailey							2/01/00	17	0		0		
Title: Field I	Environmen	tal Scientist				Approval Dat	te: 5/26/20	013 E	xpiration	Date:			
E-mail Addre	ess: amdaile	ey@eprod.cor	n			Conditions of	Approval:			Attached			
Date: 11.27 * Attach Addit		ets If Necess		05)599-2286			NSK	1309	8540	236			



November 15, 2012

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

RE: **Multiple Release Assessment Report** Lateral 2B-24 San Juan County, New Mexico

Mr. Dailey:

Animas Environmental Services, LLC

www.animasenvironmental.com

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

> Durango, Colorado 970-403-3274

ROVD MAR 18 115 OIL CONS. DIV. DIST. 3

On August 6, 2012, Animas Environmental Services, LLC (AES) completed an assessment associated with three separate releases of natural gas from the Enterprise Products Company (Enterprise) Lateral 2B-24 4-inch diameter pipeline. The releases, which are located approximately 6.25 to 7 miles south of Bloomfield, San Juan County, New Mexico, resulted from pipeline leaks caused by corrosion.

Site Information 1.0

1.1 Locations

All locations are illustrated on Figure 1- Topographic Site Location Map.

Release #1

Location – NE¼ NE¼, Section 21, T28N, R10W, San Juan County, New Mexico Latitude/Longitude - N36.65287 and W107.89455, respectively Surface Owner – Federal (Bureau of Land Management) Figure 2a. Aerial Site Map Release #1

Release #2

Location – SE¼ NW¼, Section 22, T28N, R10W, San Juan County, New Mexico Latitude/Longitude - N36.64828 and W107.88367, respectively Surface Owner – Federal (Bureau of Land Management) Figure 2b. Aerial Site Map Release #2

Release #3

Location – SW¼ NW¼, Section 22, T28N, R10W, San Juan County, New Mexico Latitude/Longitude - N36.65040 and W107.88930, respectively Surface Owner – Federal (Bureau of Land Management)
Figure 2c. Aerial Site Map Release #3

1.2 NMOCD Ranking

In accordance with the New Mexico Oil Conservation Division (NMOCD) *Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993) the release locations were each assigned a ranking score to establish release action levels. The ranking scores were obtained in part by reviewing available records of nearby oil/gas wells using the NMOCD online database. Additionally, the New Mexico Office of the State Engineer (NMOSE) database was reviewed for nearby water wells, and Google Earth and the New Mexico Tech Petroleum Recovery Research Center online mapping tool (http://ford.nmt.edu/react/project.html) were accessed to aid in the identification of downgradient surface water.

Release #1

No NMOCD documents were found to assist in determining the ranking score for Release #1. Based on site topography and elevation differentials between the release location and the nearest perennial water sources, depth to groundwater is estimated to be greater than 100 feet below ground surface (bgs). No registered water wells were reported to be located within 1,000 feet of the release area. A small unnamed ephemeral wash is located approximately 400 feet east of Release #1, and a larger unnamed ephemeral wash is located approximately 630 feet to the northwest. Based on this information, Release #1 was assessed a ranking score of 10.

Release #2

No NMOCD documents were found to assist in determining the ranking score for Release #2. Based on site topography and elevation differentials between the release location and the nearest perennial water sources, depth to groundwater is estimated to be greater than 100 feet bgs. No registered water wells were reported to be located within 1,000 feet of the release area. Unnamed ephemeral washes are located approximately 50 feet and 250 feet west and approximately 520 feet east of Release #2. Based on this information, Release #2 was assessed a ranking score of 20.

Release #3

A C-144 form dated August 2007 for the Davidson Gas Com H #1F well located approximately 200 feet northeast of Release #3 reported the depth to groundwater as greater than 100 feet bgs. No registered water wells were reported to be located within 1,000 feet of the release area. Unnamed ephemeral washes are also located

approximately 90 feet northwest and 550 feet southeast of Release #3. Based on this information, Release #3 was assessed a ranking score of 20.

1.3 Assessment and Mitigation

On August 6, 2012, Enterprise contractors completed two excavations (Release #1 and Release #2) along the Lateral 2B-24 pipeline and determined that the releases were the result of pipeline leaks caused by corrosion. A third release area was identified (Release #3) and assessed with the installation of six soil borings. AES collected soil samples for field screening and laboratory analysis; a total of 10 soil samples were collected from the excavation at Release #1, a total of 14 samples from the excavation at Release #2, and 2 samples from the soil borings at Release #3.

The final excavation dimensions for Release #1 measured approximately 44 feet by 12 feet by 6.75 feet deep. Additionally, an area of surface staining approximately 1 foot wide by 75 feet long was observed adjacent to the north side of the excavation at Release #1. The final excavation dimensions for Release #2 measured 74 feet by 10 feet by 5 feet deep. The six soil borings installed in the vicinity of Release #3 were each terminated at sandstone. Soil boring total depths ranged from 0.5 feet bgs to 2.5 bgs.

Soil sample locations are included on Figures 3a, 3b, and 3c, and a photograph log is attached.

2.0 Soil Sampling

Release #1

AES personnel collected eight 5-point composite soil samples (SC-1 through SC-8) from the excavation base and sidewalls of Release #1 for field screening and laboratory analysis. Soil samples SC-1 through SC-6 were collected from the sidewalls of the excavation from 0 to 6.75 feet bgs. SC-7 and SC-8 were collected from the excavation base at depths of 6.75 feet. Additionally, AES collected two 5-point composite soil samples (SC-9 and SC-10) at depths of 0.25 feet bgs from the area of surface staining adjacent to the release area.

Release #2

AES personnel collected 14 5-point composite soil samples (SC-1 through SC-14) from the excavation base and sidewalls of Release #2 for field screening and laboratory analysis. Soil samples SC-1 through SC-10 were collected from the sidewalls of the excavation from 0 to 5 feet bgs; and SC-11 through SC-14 were collected from the excavation base at depths of 5 feet bgs.

Release #3

AES personnel collected a total of 11 soil samples for field screening from the six soil borings installed in the vicinity of Release #3. Additionally, two 5-point composite soil samples (SC-1 and SC-2) were collected for field screening and laboratory analysis. Soil sample SC-1 is a composite of SB-2 through SB-6 at 1 foot bgs, and SC-2 is a composite of SB-2 through SB-6 at total depth.

2.1 Field Screening

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

2.2 Laboratory Analyses

A total of 26 soil samples (SC-1 through SC-10 for Release #1, SC-1 through SC-14 for Release #2, and SC-1 and SC-2 for Release #3) were collected for laboratory analysis and were placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto a sample chain of custody record. Samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall), in Albuquerque, New Mexico. Soil samples were laboratory analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per U.S. Environmental Protection Agency (USEPA) Method 8021B;
- Total petroleum hydrocarbons (TPH) for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015B.

2.3 Field Screening and Laboratory Analytical Results

Release #1

Soil field screening results showed that VOC concentrations were 0.0 ppm in each soil sample collected from the Release #1 area. Soil analytical results from SC-1 through SC-10 showed that benzene and total BTEX concentrations were below laboratory detection limits. TPH concentrations were below laboratory detection limits in all samples, except for SC-9 with 120 mg/kg DRO.

Release #2

Field screening VOC concentrations in the samples collected from Release #2 ranged from 0.0 ppm up to 53.6 ppm in SC-1. Soil analytical results from SC-1 through SC-14 showed that benzene and total BTEX concentrations were below laboratory detection limits. TPH concentrations were below laboratory detection limits in all samples, except for SC-2 (170 mg/kg DRO), SC-5 (12 mg/kg DRO), and SC-6 (35 mg/kg DRO).

Release #3

The VOC concentration was 0.0 ppm in each of the samples collected from the soil borings and 5-point composite samples for Release #3. Soil analytical results from SC-1 and SC-2 showed that benzene, total BTEX, and TPH concentrations were below laboratory detection limits.

Laboratory analytical results are included in Table 1 and on Figures 3a, 3b, and 3c. Laboratory analytical reports are attached.

Table 1. Soil Field Screening and Laboratory Analytical Results Lateral 2B-24 Multiple Release Assessment, August 2012

			iviuitipie ke	VOCs		Total	ТРН-	ТРН-
Release	Sample	Sample	Depth	OVM	Benzene	BTEX	GRO	DRO
ID	ID	Date	(ft)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
		NMOCD	Action Level	100	10	50	1,0	00*
	SC-1	8/6/12	0 to 6.75	0.0	<0.047	<0.236	<4.7	<10
	SC-2	8/6/12	0 to 6.75	0.0	<0.048	<0.24	<4.8	<9.8
	SC-3	8/6/12	0 to 6.75	0.0	<0.049	<0.246	<4.9	<10
	SC-4	8/6/12	0 to 6.75	0.0	<0.048	<0.24	<4.8	<10
Release	SC-5	8/6/12	0 to 6.75	0.0	<0.047	<0.235	<4.7	<10
#1	SC-6	8/6/12	0 to 6.75	0.0	<0.048	<0.241	<4.8	<10
	SC-7	8/6/12	6.75	0.0	<0.047	<0.235	<4.7	<9.7
	SC-8	8/6/12	6.75	0.0	<0.050	<0.25	<5.0	<9.8
	SC-9	8/6/12	0.25	0.0	<0.049	<0.245	<4.9	120
	SC-10	8/6/12	0.25	0.0	<0.048	<0.239	<4.8	<49
		NMOCD	Action Level	100	10	50	10	00*
	SC-1	8/6/12	0 to 5	53.6	<0.049	<0.246	<4.9	<9.7
	SC-2	8/6/12	0 to 5	7.0	<0.046	<0.23	<4.6	170
	SC-3	8/6/12	0 to 5	1.5	< 0.049	<0.245	<4.9	<9.8
	SC-4	8/6/12	0 to 5	0.2	<0.049	<0.245	<4.9	<10
Release	SC-5	8/6/12	0 to 5	3.8	<0.046	<0.23	<4.6	12
#2	SC-6	8/6/12	0 to 5	2.4	< 0.047	<0.235	<4.7	35
	SC-7	8/6/12	0 to 5	0.7	<0.050	<0.249	<5.0	<10
	SC-8	8/6/12	0 to 5	0.0	<0.048	<0.24	<4.8	<9.6
	SC-9	8/6/12	0 to 5	0.0	<0.046	<0.23	<4.6	<10
	SC-10	8/6/12	0 to 5	0.6	<0.049	<0.245	<4.9	<9.6

				VOCs		Total	ТРН-	ТРН-
Release	Sample	Sample	Depth	OVM	Benzene	BTEX	GRO	DRO
ID	ID	Date	(ft)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
	SC-11	8/6/12	5	2.9	< 0.047	<0.234	<4.7	<9.7
	SC-12	8/6/12	5	0.3	<0.046	<0.231	<4.6	<9.7
	SC-13	8/6/12	5	0.0	<0.049	<0.244	<4.9	<10
	SC-14	8/6/12	5	0.0	< 0.049	<0.244	<4.9	<10
		NMOCD A	Action Level	100	10	50	10	00*
Release	SC-1	8/6/12	1	0.0	<0.047	<0.235	<4.7	<10
#3	SC-2	8/6/12	TD	0.0	<0.047	<0.235	<4.7	<10

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

3.0 Conclusions and Recommendations

NMOCD action levels for releases are specified in NMOCD's *Guidelines for Leaks, Spills, and Releases* (August 1993). Release #1 was assigned a ranking score of 10, and Release #2 and Release #3 were each assigned a ranking score of 20. Based on field observations, field screening values, and laboratory analytical results for VOCs, benzene, BTEX, and TPH, soils have not been impacted above NMOCD action levels within the release areas, with the exception of SC-2 (170 mg/kg DRO) at Release #2. AES recommends application of a dilute Simple Green solution within the vicinity of SC-2 at Release #2 in order to enhance bioremediation of residual petroleum hydrocarbons in the soil.

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

Sincerely,

Landrea Cupps

Environmental Scientist

Elizabeth V MiNdly

Sandre R. lupps

Elizabeth McNally, P.E.

Aaron Dailey Lateral 2B-24 Multiple Release Assessment November 15, 2012 Page 7 of 7

Attachments:

Figure 1. Topographic Site Location Map

Figure 2a. Aerial Site Map Release #1

Figure 2b. Aerial Site Map Release #2

Figure 2c. Aerial Site Map Release #3

Figure 3a. Release #1 Sample Locations and Results, August 2012

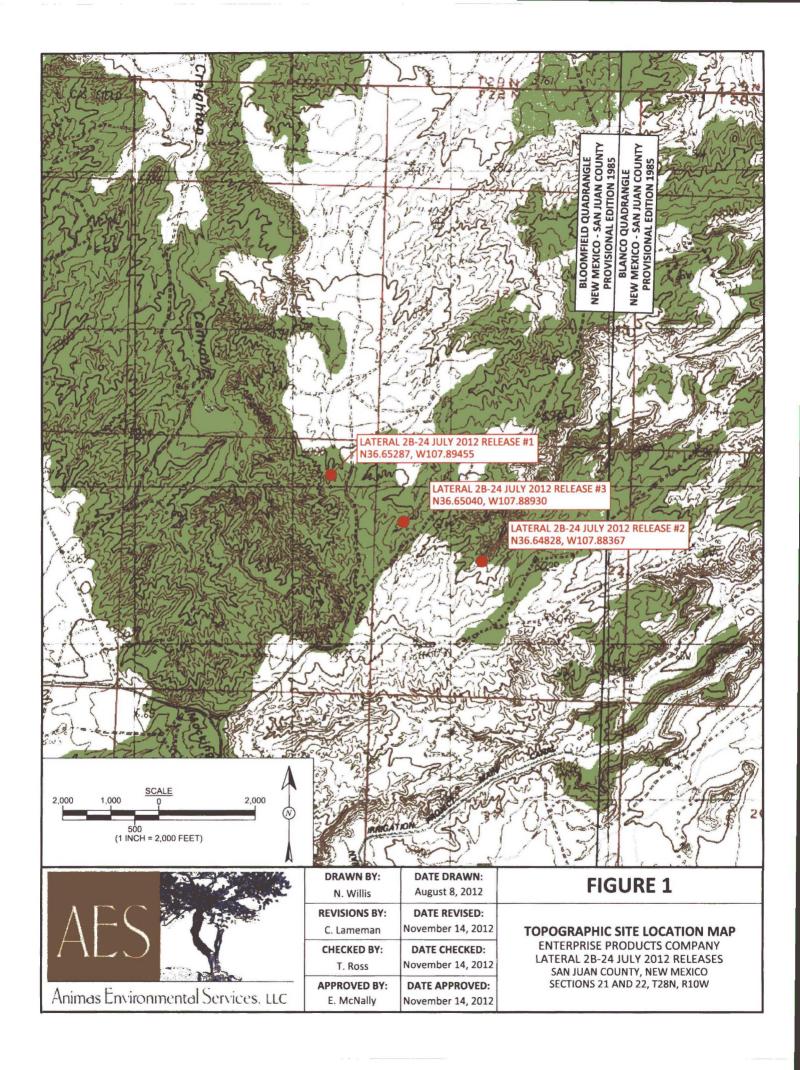
Figure 3b. Release #2 Sample Locations and Results, August 2012

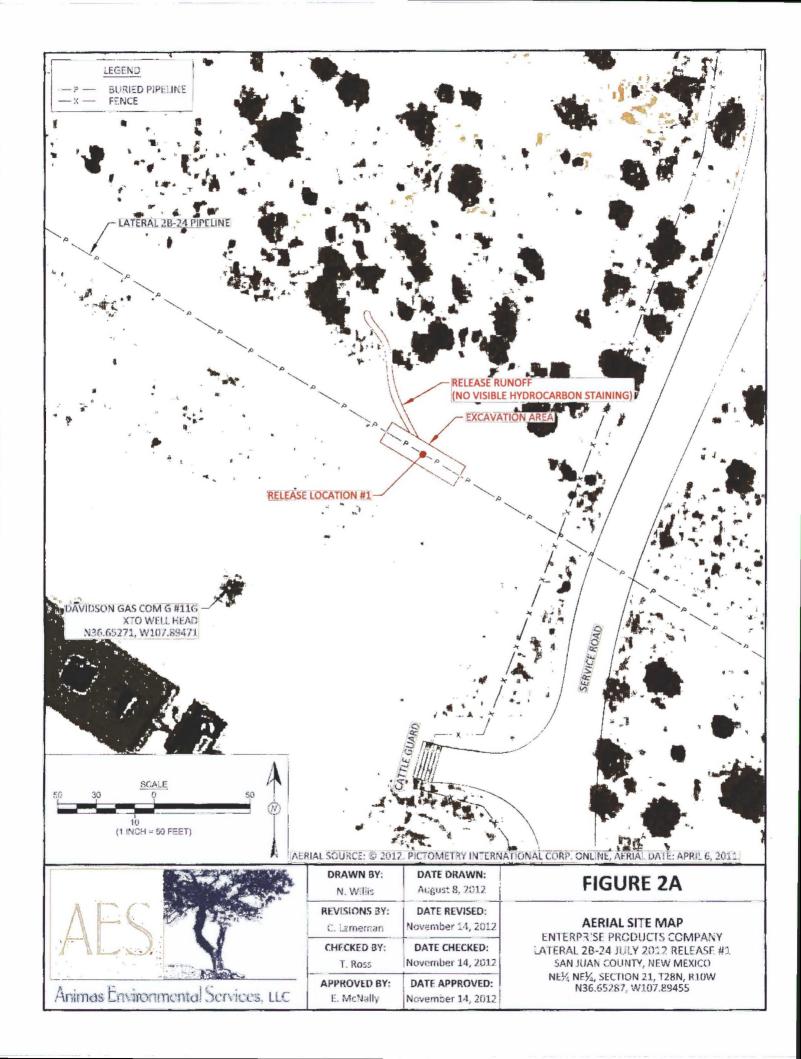
Figure 3c. Release #3 Sample Locations and Results, August 2012

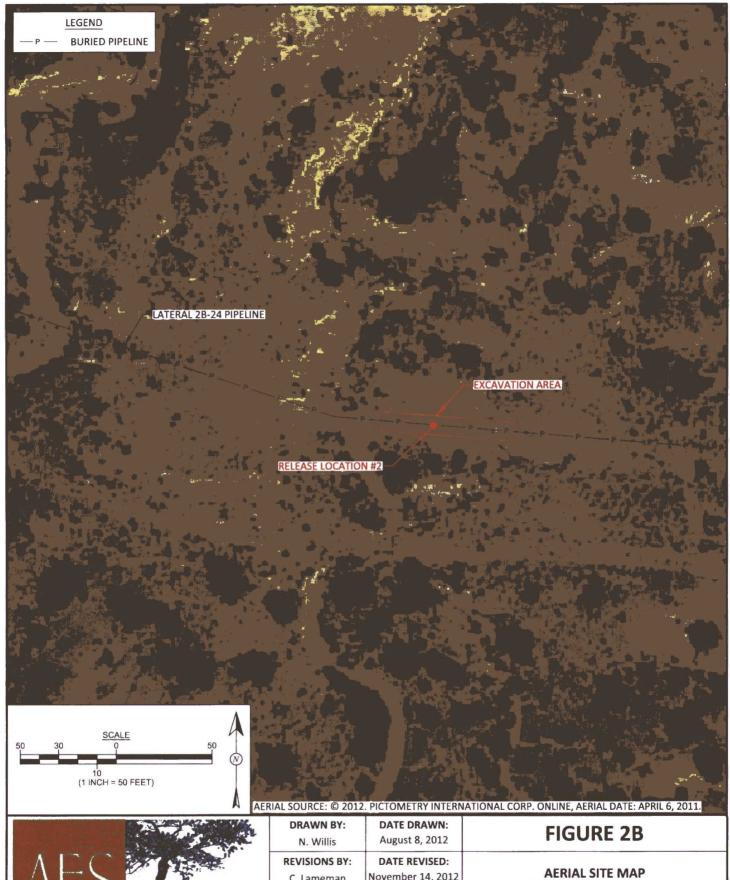
Photograph Log

Laboratory Analytical Reports (Hall 1208369, 1208371, 1208372)

R:\Animas 2000\2012 Projects\Enterprise\Lateral 2B-24\July 2012\Enterprise Lateral 2B-24 Multiple Release Assessment 111512.docx



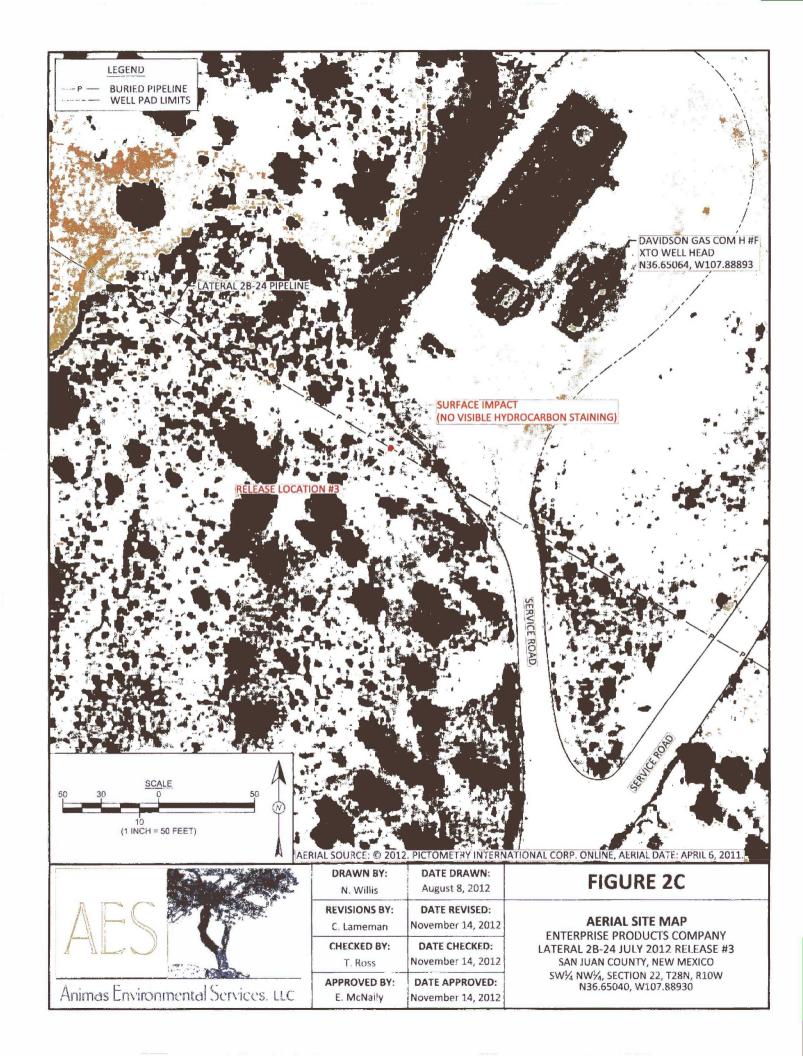


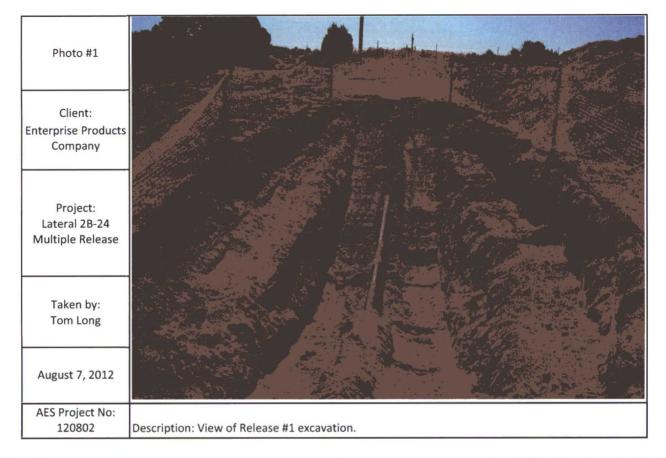


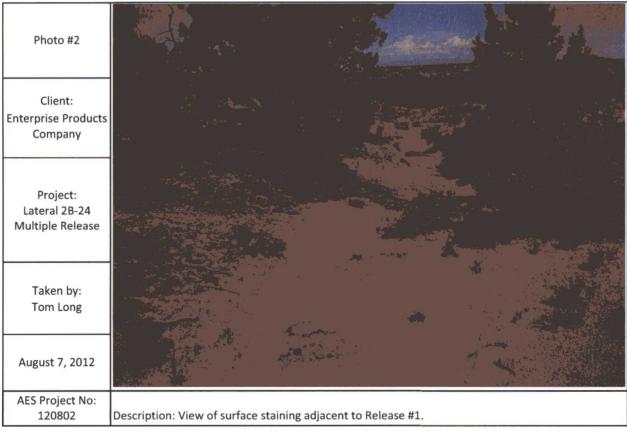


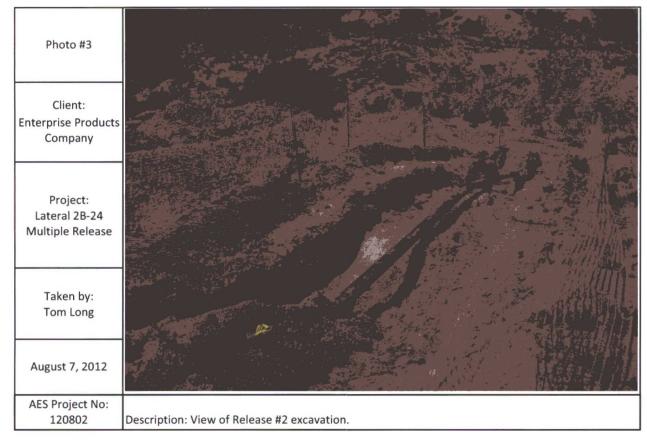
REVISIONS BY:	DATE REVISED:
C. Lameman	November 14, 2012
CHECKED BY:	DATE CHECKED:
T. Ross	November 14, 2012
APPROVED BY:	DATE APPROVED:
E. McNally	November 14, 2012

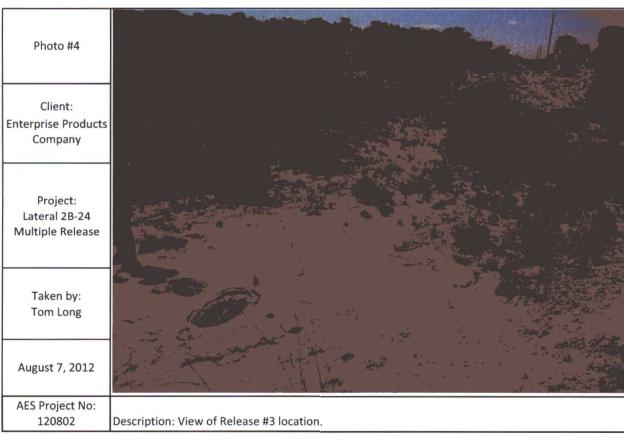
ENTERPRISE PRODUCTS COMPANY LATERAL 2B-24 JULY 2012 RELEASE #2 SAN JUAN COUNTY, NEW MEXICO SE¹/₄ NW¹/₄, SECTION 22, T28N, R10W N36.64828, W107.88367













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

August 15, 2012

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

FAX

RE: Enterprise Lateral 2B-24 Excavation #1

OrderNo.: 1208371

Dear Tami Ross:

Hall Environmental Analysis Laboratory received 10 sample(s) on 8/8/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1208371

Date Reported: 8/15/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-1

Project:

Enterprise Lateral 2B-24 Excavation #1

Collection Date: 8/6/2012 10:50:00 AM

Lab ID:

1208371-001

Matrix: SOIL

Received Date: 8/8/2012 9:55:00 AM

Analyses	Result	RL C	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/10/2012 11:20:03 AM
Surr: DNOP	105	77.6-140	%REC	1	8/10/2012 11:20:03 AM
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/10/2012 7:19:01 PM
Surr: BFB	99.7	84-116	%REC	1	8/10/2012 7:19:01 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.047	mg/Kg	1	8/10/2012 7:19:01 PM
Toluene	ND	0.047	mg/Kg	1	8/10/2012 7:19:01 PM
Ethylbenzene	ND	0.047	mg/Kg	1	8/10/2012 7:19:01 PM
Xylenes, Total	ND	0.095	mg/Kg	1	8/10/2012 7:19:01 PM
Surr: 4-Bromofluorobenzene	103	80-120	%REC	1	8/10/2012 7:19:01 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
- J Samples with CalcVal < MDL

Page 1 of 13

Lab Order 1208371

Date Reported: 8/15/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Enterprise Lateral 2B-24 Excavation #1

Lab ID: 1208371-002

on #1

Matrix: SOIL

Client Sample ID: SC-2

Collection Date: 8/6/2012 10:51:00 AM

Received Date: 8/8/2012 9:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE	ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	8/10/2012 11:45:25 AM
Surr: DNOP	106	77.6-140	%REC	1	8/10/2012 11:45:25 AM
EPA METHOD 8015B: GASOLINE RAN	NGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/10/2012 11:37:38 PM
Surr: BFB	99.1	84-116	%REC	1	8/10/2012 11:37:38 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.048	mg/Kg	1	8/10/2012 11:37:38 PM
Toluene	ND	0.048	mg/Kg	1	8/10/2012 11:37:38 PM
Ethylbenzene	ND	0.048	mg/Kg	1	8/10/2012 11:37:38 PM
Xylenes, Total	ND	0.096	mg/Kg	1	8/10/2012 11:37:38 PM
Surr: 4-Bromofluorobenzene	105	80-120	%REC	1	8/10/2012 11:37:38 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

U Samples with CalcVal < MDL

Page 2 of 13

Lab Order 1208371

Date Reported: 8/15/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-3

Project: Enterprise Lateral 2B-24 Excavation #1

Collection Date: 8/6/2012 10:52:00 AM

Lab ID: 1208371-003

Matrix: SOIL

Received Date: 8/8/2012 9:55:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/10/2012 12:37:07 PM
Surr: DNOP	103	77.6-140	%REC	1	8/10/2012 12:37:07 PM
EPA METHOD 8015B: GASOLINE RA	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/11/2012 12:06:24 AM
Surr: BFB	98.8	84-116	%REC	1	8/11/2012 12:06:24 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.049	mg/Kg	1	8/11/2012 12:06:24 AM
Toluene	ND	0.049	mg/Kg	1	8/11/2012 12:06:24 AM
Ethylbenzene	ND	0.049	mg/Kg	1	8/11/2012 12:06:24 AM
Xylenes, Total	ND	0.099	mg/Kg	1	8/11/2012 12:06:24 AM
Surr: 4-Bromofluorobenzene	104	80-120	%REC	1	8/11/2012 12:06:24 AM

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
- U Samples with CalcVal < MDL

Page 3 of 13

Lab Order 1208371

Date Reported: 8/15/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Enterprise Lateral 2B-24 Excavation #1

Lab ID: 1208371-004

Project:

Client Sample ID: SC-4

Collection Date: 8/6/2012 10:53:00 AM

Received Date: 8/8/2012 9:55:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	SE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/10/2012 9:29:44 AM
Surr: DNOP	96.9	77.6-140	%REC	1	8/10/2012 9:29:44 AM
EPA METHOD 8015B: GASOLINE RA	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/11/2012 12:35:04 AM
Surr: BFB	97.6	84-116	%REC	1	8/11/2012 12:35:04 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.048	mg/Kg	1	8/11/2012 12:35:04 AM
Toluene	ND	0.048	mg/Kg	1	8/11/2012 12:35:04 AM
Ethylbenzene	ND	0.048	mg/Kg	1	8/11/2012 12:35:04 AM
Xylenes, Total	ND	0.096	mg/Kg	1	8/11/2012 12:35:04 AM
Surr: 4-Bromofluorobenzene	102	80-120	%REC	1	8/11/2012 12:35:04 AM

Matrix: SOIL

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

J Samples with CalcVal < MDL

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Lab Order 1208371

Date Reported: 8/15/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-5

Project:

Enterprise Lateral 2B-24 Excavation #1

Collection Date: 8/6/2012 10:54:00 AM

Lab ID:

1208371-005

Matrix: SOIL

Received Date: 8/8/2012 9:55:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	SE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/10/2012 10:41:22 AM
Surr: DNOP	99.3	77.6-140	%REC	1	8/10/2012 10:41:22 AM
EPA METHOD 8015B: GASOLINE RA	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/11/2012 1:03:44 AM
Surr: BFB	98.5	84-116	%REC	1	8/11/2012 1:03:44 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.047	mg/Kg	1	8/11/2012 1:03:44 AM
Toluene	ND	0.047	mg/Kg	1	8/11/2012 1:03:44 AM
Ethylbenzene	ND	0.047	mg/Kg	1	8/11/2012 1:03:44 AM
Xylenes, Total	ND	0.094	mg/Kg	1	8/11/2012 1:03:44 AM
Surr: 4-Bromofluorobenzene	104	80-120	%REC	1	8/11/2012 1:03:44 AM

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
- U Samples with CalcVal < MDL

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Lab Order 1208371

Date Reported: 8/15/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Enterprise Lateral 2B-24 Excavation #1

Lab ID: 1208371-006

Project:

Client Sample ID: SC-6

Collection Date: 8/6/2012 10:55:00 AM

Received Date: 8/8/2012 9:55:00 AM

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	SE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/10/2012 11:54:47 AM
Surr: DNOP	99.2	77.6-140	%REC	1	8/10/2012 11:54:47 AM
EPA METHOD 8015B: GASOLINE RA	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/11/2012 1:32:22 AM
Surr: BFB	99.5	84-116	%REC	1	8/11/2012 1:32:22 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.048	mg/Kg	1	8/11/2012 1:32:22 AM
Toluene	ND	0.048	mg/Kg	1	8/11/2012 1:32:22 AM
Ethylbenzene	ND	0.048	mg/Kg	1	8/11/2012 1:32:22 AM
Xylenes, Total	ND	0.097	mg/Kg	1	8/11/2012 1:32:22 AM
Surr: 4-Bromofluorobenzene	105	80-120	%REC	1	8/11/2012 1:32:22 AM

Matrix: SOIL

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
- U Samples with CalcVal < MDL</p>

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Lab Order 1208371

Date Reported: 8/15/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-7

Project: Enterprise Lateral 2B-24 Excavation #1

Collection Date: 8/6/2012 10:57:00 AM

Lab ID: 1208371-007

Received Date: 8/8/2012 9:55:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	SE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	8/10/2012 12:17:02 PM
Surr: DNOP	101	77.6-140	%REC	1	8/10/2012 12:17:02 PM
EPA METHOD 8015B: GASOLINE RA	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/11/2012 2:01:06 AM
Surr: BFB	99.7	84-116	%REC	1	8/11/2012 2:01:06 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.047	mg/Kg	1	8/11/2012 2:01:06 AM
Toluene	ND	0.047	mg/Kg	1	8/11/2012 2:01:06 AM
Ethylbenzene	ND	0.047	mg/Kg	1	8/11/2012 2:01:06 AM
Xylenes, Total	ND	0.094	mg/Kg	1	8/11/2012 2:01:06 AM
Surr: 4-Bromofluorobenzene	104	80-120	%REC	1	8/11/2012 2:01:06 AM

Matrix: SOIL

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
- U Samples with CalcVal < MDL

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Lab Order 1208371

Date Reported: 8/15/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Enterprise Lateral 2B-24 Excavation #1

Lab ID: 1208371-008

Client Sample ID: SC-8

Collection Date: 8/6/2012 11:00:00 AM

Received Date: 8/8/2012 9:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN		Analyst: JMP			
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	8/10/2012 12:39:12 PM
Surr: DNOP	103	77.6-140	%REC	1	8/10/2012 12:39:12 PM
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/11/2012 2:29:52 AM
Surr: BFB	98.3	84-116	%REC	1	8/11/2012 2:29:52 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.050	mg/Kg	1	8/11/2012 2:29:52 AM
Toluene	ND	0.050	mg/Kg	1	8/11/2012 2:29:52 AM
Ethylbenzene	ND	0.050	mg/Kg	1	8/11/2012 2:29:52 AM
Xylenes, Total	ND	0.10	mg/Kg	1	8/11/2012 2:29:52 AM
Surr: 4-Bromofluorobenzene	102	80-120	%REC	1	8/11/2012 2:29:52 AM

Matrix: SOIL

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
- U Samples with CalcVal < MDL

Page 8 of 13

Lab Order 1208371

Date Reported: 8/15/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-9

Project: Enterprise Lateral 2B-24 Excavation #1

Collection Date: 8/6/2012 11:55:00 AM

Lab ID: 1208371-009

Matrix: SOIL

Received Date: 8/8/2012 9:55:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGI	ORGANICS					Analyst: JMP
Diesel Range Organics (DRO)	120	100		mg/Kg	10	8/12/2012 4:20:52 AM
Surr: DNOP	0	77.6-140	S	%REC	10	8/12/2012 4:20:52 AM
EPA METHOD 8015B: GASOLINE RAI	NGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/14/2012 12:03:31 PM
Surr: BFB	96.1	84-116		%REC	1	8/14/2012 12:03:31 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	8/14/2012 12:03:31 PM
Toluene	ND	0.049		mg/Kg	1	8/14/2012 12:03:31 PM
Ethylbenzene	ND	0.049		mg/Kg	1	8/14/2012 12:03:31 PM
Xylenes, Total	ND	0.098		mg/Kg	1	8/14/2012 12:03:31 PM
Surr: 4-Bromofluorobenzene	99.5	80-120		%REC	1	8/14/2012 12:03:31 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
- U Samples with CalcVal < MDL

Page 9 of 13

Lab Order 1208371

Date Reported: 8/15/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-10

Project: E

t: Enterprise Lateral 2B-24 Excavation #1

Collection Date: 8/6/2012 11:56:00 AM

Lab ID: 12

1208371-010

Matrix: SOIL

Received Date: 8/8/2012 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE ORGANICS					Analyst: JMP
Diesel Range Organics (DRO)	ND	49		mg/Kg	5	8/13/2012 11:15:27 AM
Surr: DNOP	0	77.6-140	S	%REC	5	8/13/2012 11:15:27 AM
EPA METHOD 8015B: GASOLINE R.	ANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/14/2012 12:32:18 PM
Surr: BFB	96.5	84-116		%REC	1	8/14/2012 12:32:18 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	8/14/2012 12:32:18 PM
Toluene	ND	0.048		mg/Kg	1	8/14/2012 12:32:18 PM
Ethylbenzene	ND	0.048		mg/Kg	1	8/14/2012 12:32:18 PM
Xylenes, Total	ND	0.095		mg/Kg	1	8/14/2012 12:32:18 PM
Surr: 4-Bromofluorobenzene	99.0	80-120		%REC	1	8/14/2012 12:32:18 PM

Qualifiers:

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

Page 10 of 13

Hall Environmental Analysis Laboratory, Inc.

WO#: 1208371

15-Aug-12

Client:

Animas Environmental Services

Project:

Enterprise Lateral 2B-24 Excavation #1

Sample ID MB-3256	SampType	e: MBLK	Test	Code: El	PA Method	8015B: Diese	el Range C	Organics	
Client ID: PBS	Batch ID	3256	R	unNo: 4	749				
Prep Date: 8/9/2012	Analysis Date	e: 8/9/2012	S	eqNo: 1	33973	Units: mg/K	g		
Analyte	Result F	PQL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10							
Surr: DNOP	9.4	10.00		94.3	77.6	140			

Sample ID LCS-3256	SampT	ype: LC	S	Tes	tCode: E	PA Method	8015B: Dies	el Range (Organics	
Client ID: LCSS	Batch	ID: 32	56	F	RunNo: 4	749				
Prep Date: 8/9/2012	Analysis D	ate: 8/	9/2012	S	SeqNo: 1	33997	Units: mg/h	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	37	10	50.00	0	73.9	52.6	130			
Surr: DNOP	3.9		5,000		78.2	77.6	140			

Sample ID MB-3262	SampT	ype: ME	BLK	Test	tCode: El	PA Method	8015B: Diese	el Range C	Organics	
Client ID: PBS	Batch	ID: 326	62	R	RunNo: 4	775				
Prep Date: 8/9/2012	Analysis D	ate: 8/	10/2012	S	SeqNo: 1	34715	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	10		10.00		100	77.6	140			

Sample ID LCS-3262	SampT	ype: LC	S	Test	tCode: El	PA Method	8015B: Dies	el Range (Organics	
Client ID: LCSS	Batch	ID: 32	62	R	RunNo: 4	775				
Prep Date: 8/9/2012	Analysis D	ate: 8/	10/2012	S	SeqNo: 1	34717	Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	10	50.00	0	79.5	52.6	130			
Surr: DNOP	5.1		5.000		102	77.6	140			

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

Analyte detected below quantitation limits

RPD outside accepted recovery limits

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 11 of 13

Hall Environmental Analysis Laboratory, Inc.

WO#: 1208371

15-Aug-12

Client:

Animas Environmental Services

Project:

Enterprise Lateral 2B-24 Excavation #1

Sample ID MB-3261

SampType: MBLK

TestCode: EPA Method 8015B: Gasoline Range

Client ID: PBS

Batch ID: 3261

PQL

5.0

5.0

RunNo: 4807

Prep Date: 8/9/2012 Analysis Date: 8/10/2012

SeqNo: 135513

Units: mg/Kg

Analyte

Result

%REC

ND 990

HighLimit

%RPD

LowLimit

RPDLimit

Qual

Gasoline Range Organics (GRO) Surr: BFB

1000

98.8

116

Sample ID LCS-3261

LCSS

SampType: LCS Batch ID: 3261

RunNo: 4807

TestCode: EPA Method 8015B: Gasoline Range

LowLimit

Client ID: Prep Date:

8/9/2012 Analysis Date: 8/10/2012

SeqNo: 135517 %REC

Units: mg/Kg

Analyte

Result **PQL**

SPK value SPK Ref Val

SPK value SPK Ref Val

HighLimit **RPDLimit** %RPD Qual

Gasoline Range Organics (GRO) Surr: BFB

1000

25.00 1000 88.1 102

84

116

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits RPD outside accepted recovery limits

Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Reporting Detection Limit

Page 12 of 13

Hall Environmental Analysis Laboratory, Inc.

WO#: 1208371

15-Aug-12

Client: Animas Environmental Services

Project: Enterprise Lateral 2B-24 Excavation #1

Sample ID MB-3261	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batch	n ID: 32	61	R	RunNo: 4	807				
Prep Date: 8/9/2012	Analysis D	ate: 8/	10/2012	S	SeqNo: 1	35539	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		105	80	120			

Sample ID LCS-3261	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batch	1D: 32	61	F	RunNo: 4	807				
Prep Date: 8/9/2012	Analysis D	ate: 8/	10/2012	S	SeqNo: 1	35543	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.050	1.000	0	92.8	76.3	117			
Toluene	0.94	0.050	1.000	0	94.4	80	120			
Ethylbenzene	0.96	0.050	1.000	0	96.4	77	116			
Xylenes, Total	2.9	0.10	3.000	0	97.3	76.7	117			
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120			

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 13 of 13



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105

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

Sample Log-In Check List

Animas Environmental Work Order Number: 1208371 Client Name: Received by/date: Logged By: Lindsay Mangin 8/8/2012 9:55:00 AM 8/8/2012 3:46:16 PM Completed By: **Lindsay Mangin** 08/09/12 Reviewed By: Chain of Custody 1. Were seals intact? No Not Present ✓ Yes V No i Not Present 2 Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In NA ✓ No 4 Coolers are present? (see 19. for cooler specific information) 5 Was an attempt made to cool the samples? NA 6 Were all samples received at a temperature of >0° C to 6.0°C 7. Sample(s) in proper container(s)? 8 Sufficient sample volume for indicated test(s)? 9. Are samples (except VOA and ONG) properly preserved? ✓ No Yes No V NA : 10. Was preservative added to bottles? No No VOA Vials 11. VOA vials have zero headspace? No V 12. Were any sample containers received broken? # of preserved 13. Does paperwork match bottle labels? bottles checked (Note discrepancies on chain of custody) for pH: V No (<2 or >12 unless noted) 14. Are matrices correctly identified on Chain of Custody? Adjusted? V No 15. Is it clear what analyses were requested? Yes V No 16. Were all holding times able to be met? (If no, notify customer for authorization.) Checked by: Special Handling (if applicable) 17. Was client notified of all discrepancies with this order? No NA V Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 18 Additional remarks: 19. Cooler Information

Seal Date

2.0

Cooler No Temp °C Condition Seal Intact Seal No

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Air Bubbles (Y or N)



HALL ENVIRONMENTAL ANALYSIS LABORATORY



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

August 13, 2012

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

FAX

RE: Enterprise Lateral 2B-24 Release #3

OrderNo.: 1208369

Dear Tami Ross:

Hall Environmental Analysis Laboratory received 2 sample(s) on 8/8/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman

Laboratory Manager

Only

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1208369

Date Reported: 8/13/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Enterprise Lateral 2B-24 Release #3

Lab ID: 1208369-001

Client Sample ID: SC-1

Collection Date: 8/6/2012 3:16:00 PM

Received Date: 8/8/2012 9:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN	GE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/10/2012 8:48:09 AM
Surr: DNOP	107	77.6-140	%REC	1	8/10/2012 8:48:09 AM
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/10/2012 4:26:22 PM
Surr: BFB	103	84-116	%REC	1	8/10/2012 4:26:22 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.047	mg/Kg	1	8/10/2012 4:26:22 PM
Toluene	ND	0.047	mg/Kg	1	8/10/2012 4:26:22 PM
Ethylbenzene	ND	0.047	mg/Kg	1	8/10/2012 4:26:22 PM
Xylenes, Total	ND	0.094	mg/Kg	1	8/10/2012 4:26:22 PM
Surr: 4-Bromofluorobenzene	105	80-120	%REC	1	8/10/2012 4:26:22 PM

Matrix: SOIL

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
- $U \quad \text{Samples with CalcVal} < \text{MDL}$

Page 1 of 5

Lab Order 1208369

Date Reported: 8/13/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Enterprise Lateral 2B-24 Release #3

Lab ID: 1208369-002

Client Sample ID: SC-2

Collection Date: 8/6/2012 3:18:00 PM Received Date: 8/8/2012 9:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGI	E ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/10/2012 9:13:28 AM
Surr: DNOP	109	77.6-140	%REC	1	8/10/2012 9:13:28 AM
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/10/2012 4:55:05 PM
Surr: BFB	101	84-116	%REC	1	8/10/2012 4:55:05 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.047	mg/Kg	1	8/10/2012 4:55:05 PM
Toluene	ND	0.047	mg/Kg	1	8/10/2012 4:55:05 PM
Ethylbenzene	ND	0.047	mg/Kg	1	8/10/2012 4:55:05 PM
Xylenes, Total	ND	0.094	mg/Kg	1	8/10/2012 4:55:05 PM
Surr: 4-Bromofluorobenzene	105	80-120	%REC	1	8/10/2012 4:55:05 PM

Matrix: SOIL

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

U Samples with CalcVal < MDL

Page 2 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: 1

1208369

13-Aug-12

Client:

Animas Environmental Services

Project:

Enterprise Lateral 2B-24 Release #3

Sample ID MB-3256	SampT	ype: ME	BLK	Test	tCode: El	PA Method	8015B: Diese	el Range (Organics	
Client ID: PBS	Batch	ID: 32	56	R	RunNo: 4	749				
Prep Date: 8/9/2012	Analysis D	ate: 8/	9/2012	S	SeqNo: 1	33973	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	9.4		10.00		94.3	77.6	140			

Sample ID LCS-3256	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015B: Diese	el Range C	Organics	
Client ID: LCSS	Batch	ID: 32	56	R	RunNo: 4	749				
Prep Date: 8/9/2012	Analysis D	ate: 8/	9/2012	S	SeqNo: 1	33997	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	37	10	50.00	0	73.9	52.6	130			
Surr: DNOP	3.0		5,000		78.2	77.6	140			

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 3 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1208369 13-Aug-12

Client:

Animas Environmental Services

Project:

Enterprise Lateral 2B-24 Release #3

Sample ID MB-3261

SampType: MBLK

TestCode: EPA Method 8015B: Gasoline Range

LowLimit

LowLimit

84

Client ID: **PBS**

Batch ID: 3261

RunNo: 4807

Prep Date: 8/9/2012 Analysis Date: 8/10/2012

SeqNo: 135513

Analyte

Result **PQL** 5.0

Units: mg/Kg

Gasoline Range Organics (GRO)

ND

SPK value SPK Ref Val %REC

SPK value SPK Ref Val

HighLimit

RPDLimit Qual

Surr: BFB

990

1000

98.8

116

Sample ID LCS-3261

LCSS

8/9/2012

SampType: LCS Batch ID: 3261 TestCode: EPA Method 8015B: Gasoline Range RunNo: 4807

Analyte Gasoline Range Organics (GRO)

Analysis Date: 8/10/2012 Result PQL

5.0

SeqNo: 135517

0

Units: mg/Kg

HighLimit %RPD

%RPD

RPDLimit Qual

Surr: BFB

Client ID:

Prep Date:

22 1000 25.00 1000

88.1 102

%REC

85 84 115 116

Qualifiers:

R

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits RPD outside accepted recovery limits

B

Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

RL Reporting Detection Limit Page 4 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1208369

13-Aug-12

Client:

Animas Environmental Services

Project:

Enterprise Lateral 2B-24 Release #3

Sample ID MB-3261	SampT	уре: МЕ	BLK	Tes	tCode: E	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batch	n ID: 32	61	R	RunNo: 4	807				
Prep Date: 8/9/2012	Analysis D	ate: 8/	10/2012	S	SeqNo: 1	35539	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1	1.1 1.000			105	80	120			

Sample ID LCS-3261	SampT	ype: LC	S	TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch	n ID: 32	61	R	RunNo: 4	807					
Prep Date: 8/9/2012	Analysis D	ate: 8/	10/2012	SeqNo: 135543			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.93	0.050	1.000	0	92.8	76.3	117				
Toluene	0.94	0.050	1.000	0	94.4	80	120				
Ethylbenzene	0.96	0.050	1.000	0	96.4	77	116				
Xylenes, Total	2.9	0.10	3.000	0	97.3	76.7	117				
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120				

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 5 of 5



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105

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

Sample Log-In Check List

Client Na	ame:	Animas Env	vironmental			Work On	der l	Num	ber:	1208369		
Received	d by/date:	45		08/08	1/2							
Logged 8	Ву:	Lindsay Ma	angin	8/8/2012	9:55:00 AM				0	4/1140 4/1140		
Complete	ed By:	Lindsay Ma	angin	8/8/2012	3:36:08 PM				0	by Allego		
Reviewe	d By:	ng		08/00	1/12							
Chain d	of Custo	ody)										
1. Wer	re seals in	ntact?				Yes		No	! !	Not Present	r.	
2. Is C	hain of C	ustody comp	olete?			Yes	~	No	: :	Not Present		
3. How	was the	sample deliv	vered?			Cour	ier					
Log In												
4. Coo	lers are p	oresent? (see	e 19. for cooler	specific inforr	mation)	Yes	V	No		NA		
5. Was	s an atter	npt made to	cool the sample	es?		Yes	V	No	; i	NA		
6. Wer	re all sam	ples receive	d at a temperat	ure of >0° C	to 6.0°C	Yes	V	No		NA		
7. San	nple(s) in	proper conta	ainer(s)?			Yes	V	No	!!			
8. Suff	ficient sar	nple volume	for indicated te	st(s)?		Yes	~	No				
9. Are	samples	(except VOA	and ONG) pro	perly preserv	ed?	Yes	V	No				
10. Was	s preserv	ative added t	to bottles?			Yes	į.	No	V	NA	!	
11. VO	A vials ha	ve zero head	dspace?			Yes	• :	No		No VOA Vials 🗸	,	
12. Wei	re any sa	mple contain	ers received br	oken?		Yes		No	~			
		ork match bo pancies on ch	ottle labels? nain of custody)	(Yes	V	No	!	# of preser bottles che for pH:		
14. Are	matrices	correctly ide	ntified on Chair	of Custody?		Yes	~	No	!!		(<2 o	r >12 unless noted)
15. Is it	clear wha	at analyses w	vere requested	?		Yes	~	No	1	Adju	sted?	
		•	le to be met? authorization.)			Yes	V	No		Chec	ked by:	
Special	Handl	ing (if app	olicable)									
17. Was	s client no	otified of all d	liscrepancies w	ith this order?	•	Yes	: ;	No	; !	NA V	·	
	Person	Notified:			Date:					ACCORDING THE REAL PROPERTY AND ADDRESS OF THE PERTY ADDRESS OF THE PERTY AND ADDRESS OF THE PERTY ADDRESS OF THE PERTY ADDRESS OF THE PERTY ADDRESS OF THE PERTY ADDRESS OF THE PERTY ADDRESS OF THE PERTY ADDRESS OF THE PERTY ADDRESS OF THE PERTY ADDRESS OF THE PERTY ADDRESS OF THE PERTY ADDRESS OF THE PERTY ADDRESS OF T		
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18. Add	itional rei	marks:										
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1	coler No	2.0	Condition Good	Seal Intact /es	Seal No	Seal Da	te		Signe	ed By		

C	hain-	of-Cu	stody Record	Turn-Around	Time:		HALL ENVIRONMENTA		A.I												
Client:	Anima	Env.	Services	Standard Project Name		re Lateral				A	N.	AL	YS	SIS	S L	AE	30		TO		r
Mailing	Address	624	B. Comarche	28-24	Rlase	tt3		490)1 H						ment erau		от М 87	109			
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Phone #	: 50	5-564	-2181									Д	naly	/sis	Req	uest					
email or				Project Mana				only)	sel)					04)					1		
QA/QQ1			☐ Level 4 (Full Validation)	Sampler: 7	ni R.55		TMB'e (8921)	(Gas o	as/Die					PO4,S	PCB's						
Accredi		□ Othe	r	Sampler: 7	horas Lon	9 12 No 2	TMB	+ TPH (Gas	15B (G	18.1)	04.1)	AH)		3,NO2	/ 8082		(A				N N
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Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type		BTEX + MTBE	BTEX + MTBE	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Me	Anions (F,C	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)				Air Bubbles (Y or N)
8-6-12	1516	Soil	Sc-1	402 Jan		- 001	K		X												Γ
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17/12	necessary.	samples subr	nitted to Hall Environmental may be subc	ontracted to other ac	Credited laboratorie	This serves as notice of this	nossil	C ville	inv sul	h-cont	racted	data	will he	clear	v nota	ted on	the ar	nalytical	report		_



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

August 13, 2012

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

FAX

RE: Enterprise Lateral 2B-24 Excavation #2 OrderNo.: 1208372

Dear Tami Ross:

Hall Environmental Analysis Laboratory received 14 sample(s) on 8/8/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1208372

Date Reported: 8/13/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-1

Project: Enterprise Lateral 2B-24 Excavation #2

Collection Date: 8/6/2012 1:02:00 PM

Lab ID: 1208372-001

Matrix: SOIL Received Date: 8/8/2012 9:55:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	8/10/2012 1:01:41 PM
Surr: DNOP	103	77.6-140	%REC	1	8/10/2012 1:01:41 PM
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/10/2012 2:11:12 PM
Surr: BFB	96.0	84-116	%REC	1	8/10/2012 2:11:12 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.049	mg/Kg	1	8/10/2012 2:11:12 PM
Toluene	ND	0.049	mg/Kg	1	8/10/2012 2:11:12 PM
Ethylbenzene	ND	0.049	mg/Kg	1	8/10/2012 2:11:12 PM
Xylenes, Total	ND	0.099	mg/Kg	1	8/10/2012 2:11:12 PM
Surr: 4-Bromofluorobenzene	101	80-120	%REC	1	8/10/2012 2:11:12 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
- U Samples with CalcVal < MDL

Page 1 of 17

Lab Order 1208372

Date Reported: 8/13/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Enterprise Lateral 2B-24 Excavation #2

Lab ID: 1208372-002

Client Sample ID: SC-2

Collection Date: 8/6/2012 1:03:00 PM

Received Date: 8/8/2012 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE	ORGANICS					Analyst: JMP
Diesel Range Organics (DRO)	170	50		mg/Kg	5	8/13/2012 12:21:26 PM
Surr: DNOP	0	77.6-140	S	%REC	5	8/13/2012 12:21:26 PM
EPA METHOD 8015B: GASOLINE RAI	NGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	8/10/2012 7:13:33 PM
Surr: BFB	105	84-116		%REC	1	8/10/2012 7:13:33 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.046		mg/Kg	1	8/10/2012 7:13:33 PM
Toluene	ND	0.046		mg/Kg	1	8/10/2012 7:13:33 PM
Ethylbenzene	ND	0.046		mg/Kg	1	8/10/2012 7:13:33 PM
Xylenes, Total	ND	0.092		mg/Kg	1	8/10/2012 7:13:33 PM
Surr: 4-Bromofluorobenzene	111	80-120		%REC	1	8/10/2012 7:13:33 PM

Matrix: SOIL

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
- U Samples with CalcVal < MDL</p>

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Lab Order 1208372

Date Reported: 8/13/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-3

Project: Enterprise Lateral 2B-24 Excavation #2

Collection Date: 8/6/2012 1:04:00 PM

Lab ID: 1208372-003

Matrix: SOIL Received Date: 8/8/2012 9:55:00 AM

Analyses	Result	RL (Qual U	nits	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE ORGANICS					Analyst: JMP
Diesel Range Organics (DRO)	ND	9.8	n	ng/Kg	1	8/10/2012 1:26:03 PM
Surr: DNOP	103	77.6-140	%	6REC	1	8/10/2012 1:26:03 PM
EPA METHOD 8015B: GASOLINE R	ANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	n	ng/Kg	1	8/10/2012 3:42:02 PM
Surr: BFB	82.2	84-116	S %	6REC	1	8/10/2012 3:42:02 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.049	m	ng/Kg	1	8/10/2012 3:42:02 PM
Toluene	ND	0.049	m	ng/Kg	1	8/10/2012 3:42:02 PM
Ethylbenzene	ND	0.049	m	ng/Kg	1	8/10/2012 3:42:02 PM
Xylenes, Total	ND	0.098	m	ng/Kg	1	8/10/2012 3:42:02 PM
Surr: 4-Bromofluorobenzene	84.4	80-120	%	REC	1	8/10/2012 3:42:02 PM

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- */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
- U Samples with CalcVal < MDL</p>

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Lab Order 1208372

Date Reported: 8/13/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Enterprise Lateral 2B-24 Excavation #2

Lab ID: 1208372-004

Project:

Matrix: SOIL

Collection Date: 8/6/2012 1:05:00 PM Received Date: 8/8/2012 9:55:00 AM

Client Sample ID: SC-4

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN	GE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/10/2012 1:48:25 PM
Surr: DNOP	103	77.6-140	%REC	1	8/10/2012 1:48:25 PM
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/10/2012 4:12:09 PM
Surr: BFB	98.9	84-116	%REC	1	8/10/2012 4:12:09 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.049	mg/Kg	1	8/10/2012 4:12:09 PM
Toluene	ND	0.049	mg/Kg	1	8/10/2012 4:12:09 PM
Ethylbenzene	ND	0.049	mg/Kg	1	8/10/2012 4:12:09 PM
Xylenes, Total	ND	0.098	mg/Kg	1	8/10/2012 4:12:09 PM
Surr: 4-Bromofluorobenzene	102	80-120	%REC	1	8/10/2012 4:12:09 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

U Samples with CalcVal < MDL

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Lab Order 1208372

Date Reported: 8/13/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-5

Project: Enterprise Lateral 2B-24 Excavation #2

Collection Date: 8/6/2012 1:06:00 PM

Lab ID: 1208372-005

Matrix: SOIL

Received Date: 8/8/2012 9:55:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	12	10	mg/Kg	1	8/10/2012 2:10:52 PM
Surr: DNOP	109	77.6-140	%REC	1	8/10/2012 2:10:52 PM
EPA METHOD 8015B: GASOLINE R.	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	8/10/2012 4:42:23 PM
Surr: BFB	103	84-116	%REC	1	8/10/2012 4:42:23 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.046	mg/Kg	1	8/10/2012 4:42:23 PM
Toluene	ND	0.046	mg/Kg	1	8/10/2012 4:42:23 PM
Ethylbenzene	ND	0.046	mg/Kg	1	8/10/2012 4:42:23 PM
Xylenes, Total	ND	0.092	mg/Kg	1	8/10/2012 4:42:23 PM
Surr: 4-Bromofluorobenzene	105	80-120	%REC	1	8/10/2012 4:42:23 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
- U Samples with CalcVal < MDL</p>

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Lab Order 1208372

Date Reported: 8/13/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Enterprise Lateral 2B-24 Excavation #2

Lab ID: 1208372-006

Client Sample ID: SC-6

Collection Date: 8/6/2012 1:07:00 PM

Received Date: 8/8/2012 9:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	35	10	mg/Kg	1	8/13/2012 10:09:45 AM
Surr: DNOP	108	77.6-140	%REC	1	8/13/2012 10:09:45 AM
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/10/2012 5:12:35 PM
Surr: BFB	92.0	84-116	%REC	1	8/10/2012 5:12:35 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.047	mg/Kg	1	8/10/2012 5:12:35 PM
Toluene	ND	0.047	mg/Kg	1	8/10/2012 5:12:35 PM
Ethylbenzene	ND	0.047	mg/Kg	1	8/10/2012 5:12:35 PM
Xylenes, Total	ND	0.094	mg/Kg	1	8/10/2012 5:12:35 PM
Surr: 4-Bromofluorobenzene	93.9	80-120	%REC	1	8/10/2012 5:12:35 PM

Matrix: SOIL

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
- U Samples with CalcVal < MDL

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Lab Order 1208372

Date Reported: 8/13/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-7

Project: Enterprise Lateral 2B-24 Excavation #2

Collection Date: 8/6/2012 1:08:00 PM

Lab ID: 1208372-007

Received Date: 8/8/2012 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS					Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/10/2012 2:33:10 PM
Surr: DNOP	102	77.6-140		%REC	1	8/10/2012 2:33:10 PM
EPA METHOD 8015B: GASOLINE RA	NGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/10/2012 5:42:44 PM
Surr: BFB	82.2	84-116	S	%REC	1	8/10/2012 5:42:44 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.050		mg/Kg	1	8/10/2012 5:42:44 PM
Toluene	ND	0.050		mg/Kg	1	8/10/2012 5:42:44 PM
Ethylbenzene	ND	0.050		mg/Kg	1	8/10/2012 5:42:44 PM
Xylenes, Total	ND	0.099		mg/Kg	1	8/10/2012 5:42:44 PM
Surr: 4-Bromofluorobenzene	86.2	80-120		%REC	1	8/10/2012 5:42:44 PM

Matrix: SOIL

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
- U Samples with CalcVal < MDL</p>

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Lab Order 1208372

Date Reported: 8/13/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Enterprise Lateral 2B-24 Excavation #2

Lab ID: 1208372-008

Client Sample ID: SC-8

Collection Date: 8/6/2012 1:09:00 PM

Received Date: 8/8/2012 9:55:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGI	E ORGANICS					Analyst: JMP
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	8/10/2012 3:18:03 PM
Surr: DNOP	101	77.6-140		%REC	1	8/10/2012 3:18:03 PM
EPA METHOD 8015B: GASOLINE RA	NGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/10/2012 6:13:12 PM
Surr: BFB	82.2	84-116	S	%REC	1	8/10/2012 6:13:12 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.048		mg/Kg	1	8/10/2012 6:13:12 PM
Toluene	ND	0.048		mg/Kg	1	8/10/2012 6:13:12 PM
Ethylbenzene	ND	0.048		mg/Kg	1	8/10/2012 6:13:12 PM
Xylenes, Total	ND	0.096		mg/Kg	1	8/10/2012 6:13:12 PM
Surr: 4-Bromofluorobenzene	86.6	80-120		%REC	1	8/10/2012 6:13:12 PM

Matrix: SOIL

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
- U Samples with CalcVal < MDL</p>

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Lab Order 1208372

Date Reported: 8/13/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Enterprise Lateral 2B-24 Excavation #2

Lab ID: 1208372-009

Project:

Matrix: SOIL

Client Sample ID: SC-9

Collection Date: 8/6/2012 1:10:00 PM

Received Date: 8/8/2012 9:55:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/13/2012 8:20:44 AM
Surr: DNOP	96.5	77.6-140	%REC	1	8/13/2012 8:20:44 AM
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	8/10/2012 6:43:15 PM
Surr: BFB	99.4	84-116	%REC	1	8/10/2012 6:43:15 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.046	mg/Kg	1	8/10/2012 6:43:15 PM
Toluene	ND	0.046	mg/Kg	1	8/10/2012 6:43:15 PM
Ethylbenzene	ND	0.046	mg/Kg	1	8/10/2012 6:43:15 PM
Xylenes, Total	ND	0.092	mg/Kg	1	8/10/2012 6:43:15 PM
Surr: 4-Bromofluorobenzene	104	80-120	%REC	1	8/10/2012 6:43:15 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
- U Samples with CalcVal < MDL

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Lab Order 1208372

Date Reported: 8/13/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Enterprise Lateral 2B-24 Excavation #2

Lab ID: 120

1208372-010

Client Sample ID: SC-10

Collection Date: 8/6/2012 1:11:00 PM

Received Date: 8/8/2012 9:55:00 AM

Analyses	Result RL Qual Units		DF	Date Analyzed	
EPA METHOD 8015B: DIESEL RANG	SE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	8/13/2012 8:42:27 AM
Surr: DNOP	96.5 77.6-140 %REC		1	8/13/2012 8:42:27 AM	
EPA METHOD 8015B: GASOLINE RA	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/10/2012 11:15:10 PM
Surr: BFB	99.5	84-116	%REC	1	8/10/2012 11:15:10 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.049	mg/Kg	1	8/10/2012 11:15:10 PM
Toluene	ND	0.049	mg/Kg	1	8/10/2012 11:15:10 PM
Ethylbenzene	ND	0.049	mg/Kg	1	8/10/2012 11:15:10 PM
Xylenes, Total	ND 0.098		mg/Kg	1	8/10/2012 11:15:10 PM
Surr: 4-Bromofluorobenzene	105	80-120	%REC	1	8/10/2012 11:15:10 PM

Matrix: SOIL

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
- U Samples with CalcVal < MDL

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Lab Order 1208372

Date Reported: 8/13/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-11

Project: Enterprise Lateral 2B-24 Excavation #2

Collection Date: 8/6/2012 1:12:00 PM

Lab ID: 1208372-011

Matrix: SOIL

Received Date: 8/8/2012 9:55:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	8/10/2012 3:40:39 PM
Surr: DNOP	103	77.6-140	%REC	1	8/10/2012 3:40:39 PM
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/10/2012 11:45:24 PM
Surr: BFB	95.0	84-116	%REC	1	8/10/2012 11:45:24 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.047	mg/Kg	1	8/10/2012 11:45:24 PM
Toluene	ND	0.047	mg/Kg	1	8/10/2012 11:45:24 PM
Ethylbenzene	ND	0.047	mg/Kg	1	8/10/2012 11:45:24 PM
Xylenes, Total	ND	0.093	mg/Kg	1	8/10/2012 11:45:24 PM
Surr: 4-Bromofluorobenzene	99.9	80-120	%REC	1	8/10/2012 11:45:24 PM

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- */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
- U Samples with CalcVal < MDL

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Lab Order 1208372

Date Reported: 8/13/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Enterprise Lateral 2B-24 Excavation #2

Lab ID: 1208372-012

Client Sample ID: SC-12

Collection Date: 8/6/2012 1:13:00 PM

Received Date: 8/8/2012 9:55:00 AM

Analyses	Result	RL Q	DF	Date Analyzed	
EPA METHOD 8015B: DIESEL RANG	GE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	8/10/2012 4:03:10 PM
Surr: DNOP	100	77.6-140	%REC	1	8/10/2012 4:03:10 PM
EPA METHOD 8015B: GASOLINE RA	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	8/11/2012 12:15:27 AM
Surr: BFB	100	84-116	%REC	1	8/11/2012 12:15:27 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.046	mg/Kg	1	8/11/2012 12:15:27 AM
Toluene	ND	0.046	mg/Kg	1	8/11/2012 12:15:27 AM
Ethylbenzene	ND	0.046	mg/Kg	1	8/11/2012 12:15:27 AM
Xylenes, Total	ND	0.093	mg/Kg	1	8/11/2012 12:15:27 AM
Surr: 4-Bromofluorobenzene	106	80-120	%REC	1	8/11/2012 12:15:27 AM

Matrix: SOIL

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

U Samples with CalcVal < MDL

Page 12 of 17

Lab Order 1208372

Date Reported: 8/13/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Enterprise Lateral 2B-24 Excavation #2

Lab ID: 1208372-013

Project:

Matrix: SOIL

Client Sample ID: SC-13

Collection Date: 8/6/2012 1:14:00 PM

Received Date: 8/8/2012 9:55:00 AM

Analyses	Result RL Qual Units		DF	Date Analyzed	
EPA METHOD 8015B: DIESEL RANG	E ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/10/2012 4:25:43 PM
Surr: DNOP	98.5 77.6-140 %REC		1	8/10/2012 4:25:43 PM	
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND 4.9 mg/Kg		1	8/11/2012 12:45:31 AM	
Surr: BFB	92.9	84-116	%REC	1	8/11/2012 12:45:31 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.049	mg/Kg	1	8/11/2012 12:45:31 AM
Toluene	ND	0.049	mg/Kg	1	8/11/2012 12:45:31 AM
Ethylbenzene	ND	0.049	mg/Kg	1	8/11/2012 12:45:31 AM
Xylenes, Total	ND	ND 0.097 mg/Kg		1	8/11/2012 12:45:31 AM
Surr: 4-Bromofluorobenzene	97.6	80-120	%REC	1	8/11/2012 12:45:31 AM

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

U Samples with CalcVal < MDL

Page 13 of 17

Lab Order 1208372

Date Reported: 8/13/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Enterprise Lateral 2B-24 Excavation #2

Lab ID: 1208372-014

Client Sample ID: SC-14

Collection Date: 8/6/2012 1:15:00 PM

Received Date: 8/8/2012 9:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/10/2012 4:48:13 PM
Surr: DNOP	105	77.6-140	%REC	1	8/10/2012 4:48:13 PM
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/11/2012 1:15:32 AM
Surr: BFB	111	84-116	%REC	1	8/11/2012 1:15:32 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.049	mg/Kg	1	8/11/2012 1:15:32 AM
Toluene	ND	0.049	mg/Kg	1	8/11/2012 1:15:32 AM
Ethylbenzene	ND	0.049	mg/Kg	1	8/11/2012 1:15:32 AM
Xylenes, Total	ND	0.097	mg/Kg	1	8/11/2012 1:15:32 AM
Surr: 4-Bromofluorobenzene	116	80-120	%REC	1	8/11/2012 1:15:32 AM

Matrix: SOIL

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

J Samples with CalcVal < MDL

Page 14 of 17

Hall Environmental Analysis Laboratory, Inc.

WO#:

1208372

13-Aug-12

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n					4.

Animas Environmental Services

Project:

Enterprise Lateral 2B-24 Excavation #2

Project:	Enterprise	nterprise Lateral 2B-24 Excavation #2													
Sample ID	MB-3264	SampTyp	e: M E	BLK	Tes	tCode: E	PA Method	8015B: Dies	el Range (Organics					
Client ID:	PBS	Batch II	D: 32	64	F	RunNo: 4	775								
Prep Date:	8/9/2012	Analysis Date	e: 8/	10/2012	8	SeqNo: 1	34569	Units: mg/h	(g						
Analyte		Result I	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
•	rganics (DRO)	ND	10	40.00		00.0	77.6	140							
Surr: DNOP		9.7		10.00		96.9	140								
Sample ID I	LCS-3264	SampTyp	e: LC	s	Tes	tCode: E	EPA Method 8015B: Diesel Range Organics								
Client ID:	LCSS	Batch II): 32	64	F	RunNo: 4	775								
Prep Date:	8/9/2012	Analysis Date	e: 8 /	10/2012	S	SeqNo: 1	34693	Units: mg/k	(g						
Analyte		Result I	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
-	rganics (DRO)	38	10	50.00	0	76.0	52.6	130							
Surr: DNOP		5.3		5.000		106	77.6	140							
Sample ID I	MB-3262	SampTyp	e: ME	BLK	Tes	tCode: E	PA Method	8015B: Dies	el Range (Organics					
Client ID: I	PBS	Batch II): 32	62	R	RunNo: 4	775								
Prep Date:	8/9/2012	Analysis Date	e: 8/	10/2012	S	SeqNo: 1	34715	Units: mg/Kg							
Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
000	rganics (DRO)	ND	10												
Surr: DNOP		10		10.00		100	77.6	140							
Sample ID I	LCS-3262	SampTyp	e: LC	s	Test	Code: E	PA Method	8015B: Dies	el Range (Organics					
Client ID: I	LCSS	Batch II): 32	62	R	lunNo: 4	775								
Prep Date:	8/9/2012	Analysis Date	e: 8/	10/2012	S	SeqNo: 1	34717	Units: mg/k	(g						
Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
	rganics (DRO)	40	10	50.00	0	79.5	52.6	130							
Surr: DNOP		5.1		5.000		102	77.6	140							
Sample ID I	MB-3288	SampTyp	e: ME	BLK	Test	Code: E	PA Method	8015B: Dies	el Range C	Organics					
Client ID:	PBS	Batch ID	32	88	R	tunNo: 4	810								
Prep Date:	8/13/2012	Analysis Date	e: 8/	13/2012	S	eqNo: 1	35920	Units: %RE	С						
Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Surr: DNOP		9.7		10.00		97.5	77.6	140							
Sample ID I	LCS-3288	SampTyp	e: LC	s	Test	Code: E	PA Method	8015B: Diese	el Range C	Organics					
Client ID: I	LCSS	Batch ID): 32	88	R	unNo: 4	810								
Prep Date:	8/13/2012	Analysis Date	e: 8/	13/2012	S	eqNo: 1	35921	Units: %RE	С						
Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Surr: DNOP		4.2		5.000		83.6	77.6	140							

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 15 of 17

Hall Environmental Analysis Laboratory, Inc.

WO#:

1208372

13-Aug-12

Client:

Animas Environmental Services

Project:

Enterprise Lateral 2B-24 Excavation #2

Sample ID MB-3263

SampType: MBLK

TestCode: EPA Method 8015B: Gasoline Range

Client ID: PBS

Batch ID: 3263

RunNo: 4788

Prep Date: 8/9/2012

Analysis Date: 8/10/2012

SeqNo: 135570

Units: mg/Kg

Analyte

PQL Result

%REC

HighLimit

RPDLimit Qual

S

Gasoline Range Organics (GRO)

ND 5.0 830

SPK value SPK Ref Val

1000

82.6

116

Surr: BFB

SampType: LCS

TestCode: EPA Method 8015B: Gasoline Range

%RPD

Client ID: LCSS

Sample ID LCS-3263

Batch ID: 3263

RunNo: 4788

Prep Date:

8/9/2012

Analysis Date: 8/10/2012

SeqNo: 135574

Units: mg/Kg

%RPD **RPDLimit** Qual

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit Gasoline Range Organics (GRO) 22 5.0 25.00 88.4 Surr: BFB 1000 1000

85 101 84

LowLimit

84

HighLimit 115 116

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

Value above quantitation range

Analyte detected below quantitation limits

R 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 16 of 17

Hall Environmental Analysis Laboratory, Inc.

WO#:

1208372

13-Aug-12

Client:

Animas Environmental Services

Project:

Enterprise Lateral 2B-24 Excavation #2

Sample ID MB-3263	SampT	SampType: MBLK			tCode: El					
Client ID: PBS	Batch	Batch ID: 3263			RunNo: 4	788				
Prep Date: 8/9/2012	Analysis Date: 8/10/2012			S	SeqNo: 1	35596	Units: mg/K	g		
Analyte	Result PQL SPK value			SPK Ref Val	Ref Val %REC LowLimit			%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	enes, Total ND 0.10									
Surr: 4-Bromofluorobenzene	0.89		1.000		88.5	80	120			

Sample ID LCS-3263	SampType: LCS TestCode: EPA Method 8021B: Volatiles												
Client ID: LCSS	Batch ID: 3	263	F										
Prep Date: 8/9/2012	Analysis Date: 8/10/2012 SeqNo: 135600						Units: mg/Kg						
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene	0.92 0.05	1.000	0	91.7	76.3	117							
Toluene	0.94 0.05	1.000	0	94.2	80	120							
Ethylbenzene	0.96 0.05	1.000	0	96.2	77	116							
Xylenes, Total	enes, Total 2.9 0.10 3.000				76.7	117							
Surr: 4-Bromofluorobenzene	0.99	1.000		98.8	80	120							

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 17 of 17



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Work Order Number: 1208372 **Animas Environmental** Client Name: Received by/date: 08/08/12 8/8/2012 9:55:00 AM Logged By: **Lindsay Mangin** Completed By: **Lindsay Mangin** 8/8/2012 3:52:05 PM Reviewed By: Chain of Custod Not Present ✓ 1. Were seals intact? Not Present Yes V No 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In 4. Coolers are present? (see 19. for cooler specific information) NA 5. Was an attempt made to cool the samples? ✓ No 6. Were all samples received at a temperature of >0° C to 6.0°C Yes V No 7 Sample(s) in proper container(s)? 8 Sufficient sample volume for indicated test(s)? 9. Are samples (except VOA and ONG) properly preserved? 10. Was preservative added to bottles? No NA : No VOA Vials V 11. VOA vials have zero headspace? No No ✓ 12. Were any sample containers received broken? # of preserved Yes V No 13. Does paperwork match bottle labels? bottles checked (Note discrepancies on chain of custody) for pH: Yes V No (<2 or >12 unless noted) 14. Are matrices correctly identified on Chain of Custody? Adjusted? V No 15. Is it clear what analyses were requested? 16. Were all holding times able to be met? Yes V No (If no, notify customer for authorization.) Checked by: Special Handling (if applicable) 17. Was client notified of all discrepancies with this order? No Yes NA V Person Notified: Date: By Whom: Via: eMail Phone : Fax In Person Regarding: Client Instructions: 18. Additional remarks:

19. Cooler Information

2.0

Cooler No Temp °C Condition | Seal Intact | Seal No | Seal Date

	Chain-of-Custody Record Client: Arimas Env. Services		Turn-	Around	Time:										NIX.	<i>(</i> T E		BI B	RIT	AL			
Client:	Animas	En	u.	Service 5	_∕s	tandard	[□ Rush				_										OR	
	,				Proje	ct Name	e: B	nterpri	se Lateral														•
Mailing	Address:	62	4 7	E. Comarch &	20	3-24	E	TC au	afron #2	www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109													
			IM	Condition	Proje													-					
Phone	± 505	- 5L	Ч.	- 2181						Tel. 505-345-3975 Fax 505-345-4107 Analysis Request													
email or				000	Project Manager:				4	<u>(</u>	(iel					(7						T	
QA/QC F				Level 4 (Full Validation)	Tami Ross			+ TMB's (8021)	+ TPH (Gas only)	(Gas/Diesel)					PO4,SC	PCB's							
Accredi					Sam	oler: 7	hora	, Lo	ney	MB	PH (=			102,	082					
	□ NELAP □ Other			(<u> </u>		n GNV.	£	ásios Delenas		+	015	138	504	PAH	w	03,1	8/8		(A)			or N	
□ EDD	(Type)_				Sam	ole (leng	esiejų.			MTBE	MTBE	8 pc	po	pou	\ Or	etal	N,	cide	₹	J-V-I			>
Date	Time	Matr	rix	Sample Request ID	100000000000000000000000000000000000000	ntainer e and #	Prese T	ervative ype		BTEX + M	BTEX + M	TPH Method 8015B	TPH (Method 418.1)	EDB (Meth	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)			Air Bubbles
-6-12	1302	Soil	1	50-1	40	Jar	I	CE CE	-801	X		γ			- 30	_	1	ω.	۵	٣	\top	+	1
	1303			56-9					-002	X		x									\top	\top	T
	1304			54-3					-003	X		X									\top	\top	十
	B05			56-4					-004	4		4									\top	\top	+
1	1306			SC-5			~		-005	4		Ý									\top	\top	+
1	1367			56-6					-000	4		F									\top	\top	\dagger
	1308			SL-7					-007	X		x										\top	\uparrow
	1309			56-8					-008	X		V										\top	T
	1310			50-9					-007	¥		Y											T
	1311			50-10					-010	X		X											T
	1312			SC-11					-011	×		4											
V	1313	4		250-19		,	,	/	-012	X		X											
Date: Time: Relinquished by:		1/h	ved by:	No	ete	Date Time 8/1/12 1737	Ren	narks	: `	B.	[{	70	Ē	nter	prs	e							
3/1/n	Date: Time: Relinquished by: 17/12 1758			by:	Receiv	1		1 laboratorie	Date Time	7	5	2	h		1 1-1-		-1			41	 		

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

11.5.2012

* Attach Additional Sheets If Necessary

Phone: (505)599-2286

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

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

Release Notification and Corrective Action **OPERATOR** Initial Report Final Report Name of Company Enterprise Products Contact Aaron Dailey Address 614 Reilly Avenue, Farmington NM 87401 Telephone No. (505)599-2286 Facility Type Natural Gas Gathering line Facility Name Lateral K-7 Pipeline Surface Owner Private Mineral Owner API No. LOCATION OF RELEASE North/South Line Feet from the Feet from the Unit Letter Township East/West Line County Section Range 7W 15 26N San Juan Latitude N36.4825 Longitude W107.5633(Decimal Degrees) NATURE OF RELEASE Volume of Release Unknown Type of Release Natural gas Volume Recovered None Source of Release 8 inch natural gas gathering line Date and Hour of Occurrence Date and Hour of Discovery** Unknown 8.1.2012 @ 09:00 hours Was Immediate Notice Given? If YES, To Whom? RCVD NOV 7'12 Brandon Powell, NM OCD Aztec Office OIL CONS. DIV. Date and Hour 8.1.2012 @ 15:00 hours By Whom? Aaron Dailey Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. DIST, 3 ☐ Yes ⊠ No If a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.* Dead vegetation on pipeline right of way was reported to Enterprise Environmental Department by a third party contractor. Upon investigation and verification, the site was claimed by Enterprise. After making notifications to Enterprise supervision and NM OCD, the site was barricaded using orange field fence within 24 hours of discovery. Additionally, signage was placed on the field fence stating "flammable, keep out." Describe Area Affected and Cleanup Action Taken.* There are approximately 5 dead vegetation spots on this right of way. Enterprise supervisor and operators identified and repaired corrosion leaks on this pipeline. An environmental assessment was conducted by a third party environmental contractor. Soil samples taken demonstrate dry gas released in this area as the laboratory analytical results show soil impacts below regulatory standards. A third party environmental corrective action report is attached to this "final" c-141 report. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION Signature: Approved by Environmental Specialist: Printed Name: Aaron Dailey Approval Date: 3/2 Expiration Date: Title: Field Environmental Scientist E-mail Address: amdailey@eprod.com Conditions of Approval: Attached

NJK 1308543225

23



October 3, 2012

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

> **Release Assessment Report** Lateral K-7 August 2012 Pipeline Release

Rio Arriba County, New Mexico

Dear Mr. Dailey:

RE:

Animas Environmental Services, LLC

www.animasenvironmental.com

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

> Durango, Colorado 970-403-3274

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

On August 9, 2012, Animas Environmental Services, LLC (AES) completed an assessment associated with current and historic releases of natural gas condensate from the Enterprise Products Company (Enterprise) Lateral K-7 pipeline. The release area, which is located approximately 28 miles southeast of Bloomfield, San Juan County, New Mexico, was investigated because of distressed vegetation and discolored soils encountered by Enterprise personnel during pipeline investigation and repair activities.

1.0 Site Information

1.1 Location

Location - NW¼ SE¼, Section 15, T26N, R7W, San Juan County, New Mexico Latitude/Longitude - N36.48489 and W107.56028, respectively Surface Owner - Private

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map

1.2 NMOCD Ranking

In accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases (August 1993), the release location was assigned a ranking score to establish release action levels. The ranking score was obtained in part by reviewing available records of nearby oil/gas wells using the NMOCD online database. A C-144 form dated April 2012 for the Candado 1 E well located approximately 230 feet southeast of the release area reported the depth to groundwater as less than 50 feet below ground surface (bgs). Additionally, the C-144 form for the Candado 1 E identified a domestic water well and an industrial water well within the 1,000 foot buffer zone. The New Mexico Office of the State Engineer

(NMOSE) database was reviewed for nearby water wells, and a registered water well was reported to be located within 1,000 feet of the location. However, it was determined that the release area was not located within a wellhead protection area because no private domestic water sources were located within a 200 foot radius of the release location.

Google Earth and the New Mexico Tech Petroleum Recovery Research Center online mapping tool (http://ford.nmt.edu/react/project.html) were accessed to aid in the identification of downgradient surface water. Little Palluche Canyon wash, a tributary of Cañon Largo wash, is located approximately 200 feet northwest of the release location. Based on this information, the release location was assessed a ranking score of 40.

1.3 Assessment and Mitigation

On August 9, 2012, AES conducted a release assessment along the Lateral K-7 pipeline. AES installed 16 soil borings and collected soil samples for field screening of volatile organic compounds (VOCs) and total petroleum hydrocarbons (TPH). Samples were also collected for laboratory analysis. Soil sample locations are included on Figure 3, and a photograph log is attached.

2.0 Soil Sampling

AES installed 16 soil borings (SB-1 through SB-16) and collected soil samples for field screening of VOCs from each soil boring in order to guide the assessment. A total of 107 discrete soil samples were field screened for VOCs. Soil borings ranged from 5 feet to 7 feet below ground surface (bgs) and were terminated at auger refusal due to tight clay. Based on VOC field screening results and location, 16 of the samples were field screened for TPH. Four were also submitted for laboratory analysis in order to provide Quality Assurance/Quality Control (QA/QC) of the field screening results.

2.1 Field Screening

2.1.1 Volatile Organic Compounds

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

2.1.2 Total Petroleum Hydrocarbons

Sixteen samples were analyzed in the field for TPH per USEPA Method 418.1 using a Buck Scientific Model HC-404 Total Hydrocarbon Analyzer Infrared Spectrometer (Buck).

A 3-point calibration was completed prior to conducting soil analyses. Field analytical protocol followed AES's *Standard Operating Procedure: Field Analysis Total Petroleum Hydrocarbons per EPA Method 418.1*.

2.2 Laboratory Analyses

Soil samples were selected from SB-1, SB-3, SB-12, and SB-16 for confirmation laboratory analysis and were placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto a sample chain of custody record. Samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall), in Albuquerque, New Mexico. Soil samples were laboratory analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per U.S. Environmental Protection Agency (USEPA) Method 8021B;
- TPH for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015B.

2.3 Field Screening and Laboratory Analytical Results

Soil field screening results showed that VOC concentrations ranged from 25.3 ppm in SB-11 up to 1,175 ppm in SB-1. Field TPH concentrations ranged from 48.3 mg/kg in SB-7 up to 114 mg/kg in SB-1.

Laboratory analytical results showed that benzene concentrations were below laboratory detection limits in each sample. Total BTEX concentrations ranged from below laboratory detection limits up to 2.1 mg/kg in SB-3 at 6 feet bgs. TPH concentrations in SB-1 at 5 feet bgs were 6.7 mg/kg GRO and 28 mg/kg DRO, and the TPH concentration in SB-3 at 6 feet bgs was 18 mg/kg GRO. TPH concentrations were below laboratory detection limits in SB-12 at 5 feet bgs and SB-16 at 2 feet bgs. Field screening and laboratory analytical results are included in Table 1 and on Figure 3. AES Field Screening Report and the laboratory analytical report are attached.

3.0 Conclusions and Recommendations

NMOCD action levels for releases are specified in NMOCD's *Guidelines for Leaks, Spills, and Releases* (August 1993), and the release was assigned a ranking score of 40. During the August 2012 assessment, AES personnel observed distressed vegetation and subsurface soil staining with an odor indicative of decomposed petroleum hydrocarbons. Field screening action levels for VOCs were exceeded in SB-1, SB-3, and SB-16, and TPH field screening action levels were exceeded in SB-1. However, laboratory analytical results for benzene, total BTEX, and TPH, soil concentrations in SB-

Aaron Dailey Lateral K-7 Release Report October 3, 2012 Page 4 of 4

1 and SB-3 are below NMOCD action levels within the release area. Based on interpolation of field screening values and corresponding laboratory QA/QC results, AES believes the elevated VOC field screening reading of 327 ppm in SB-14 would correspond with laboratory analytical results that are also below applicable NMOCD action levels. No further work is recommended.

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

Sincerely,

Landrea Cupps

Environmental Scientist

Elizabeth V MeNdly

Sandre R. Cupps

Elizabeth McNally, P.E.

Attachments:

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map

Figure 3. Sample Locations and Results, August 2012

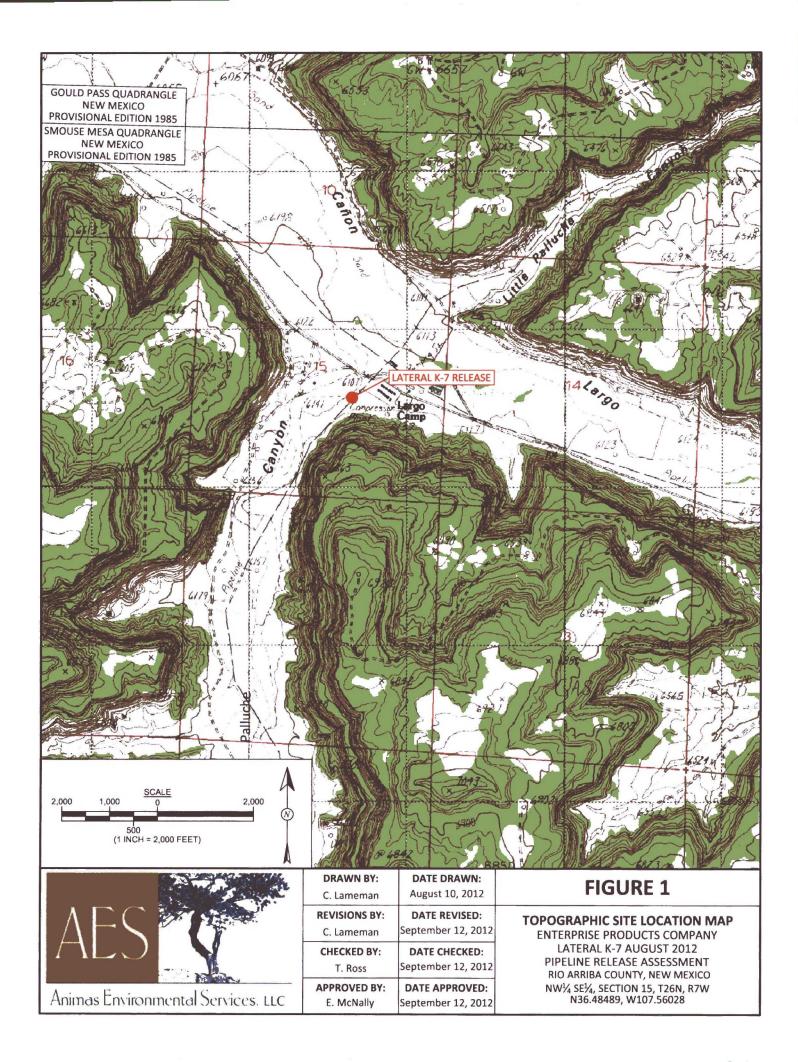
Photograph Log

Table 1. Summary of Soil Field Screening and Analytical Results

AES Field Screening Report 081012

Laboratory Analytical Reports (Hall 1208520)

R:\Animas 2000\2012 Projects\Enterprise\Lateral K-7\August 2012 Release\Lateral K-7 Release Report 100312.docx



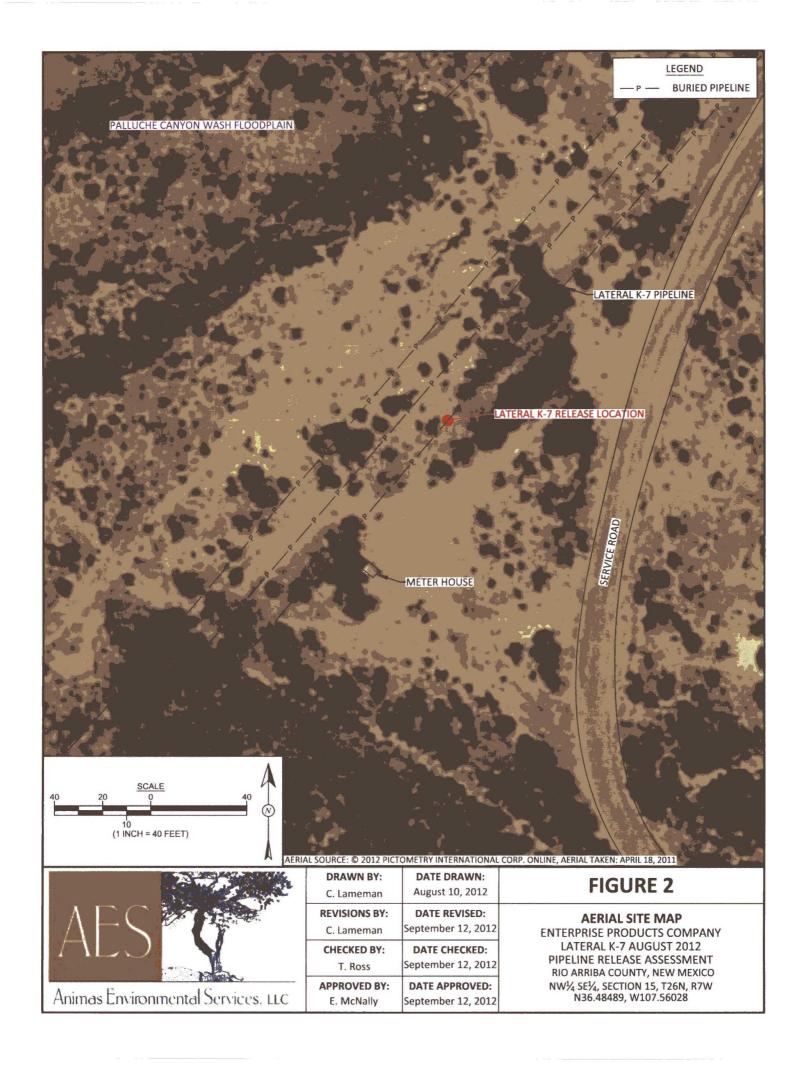


Photo #1

Client:
Enterprise Products
Company

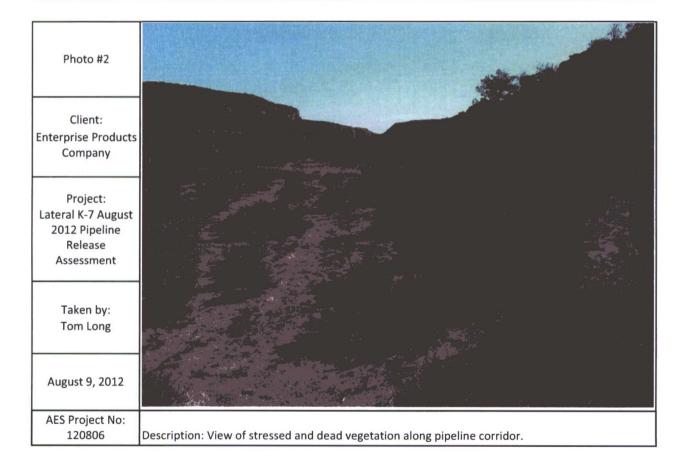
Project:
Lateral K-7 August
2012 Pipeline
Release
Assessment

Taken by:
Tom Long

August 9, 2012

AES Project No:
120806

Description: View of dead vegetation and stained soils along pipeline corridor.



Client:
Enterprise Products
Company

Project:
Lateral K-7 August
2012 Pipeline
Release
Assessment

Taken by:
Tom Long

August 9, 2012

AES Project No:
120806

Description: View of stressed and dead vegetation along pipeline corridor.

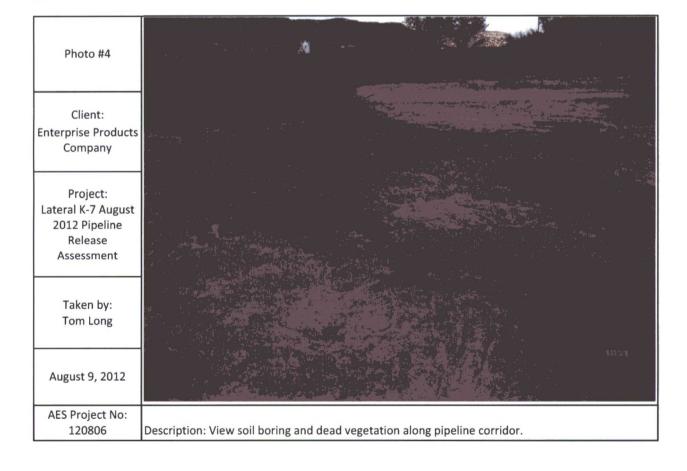


TABLE 1
SUMMARY OF SOIL FIELD SCREENING AND ANALYTICAL RESULTS
Enterprise Products Company Lateral K-7 August 2012 Pipeline Release Assessment
Rio Arriba County, New Mexico

Sample ID	Date Sampled	Depth (ft)	VOCs OVM (ppm)	Field TPH (mg/kg)	Benzene (mg/kg)	Total BTEX (mg/kg)	GRO (C6-C10) (mg/kg)	DRO (C10-C22) (mg/kg)
	NMOCD AC	tion Level	100	100	10	50	10	00
SB-1	9-Aug-12	3	303	84.9	NA	NA	NA	NA
30-1	J Aug 12	5	1,175	114	<0.049	0.41	6.7	28
SB-2	9-Aug-12	4	90	60.1	NA	NA	NA	NA
30-2	3-Aug-12	6	38.6	56.2	NA	NA	NA	NA
SB-3	9-Aug-12	3	82.2	49.6	NA	NA	NA	NA
30-3	3-Aug-12	6	633.0	75.7	<0.049	2.1	18	<10
SB-4	9-Aug-12	2	31.1	NA	NA	NA	NA	NA
30-4	9-Aug-12	5	62.3	53.6	NA	NA	NA	NA
SB-5	0 Aug 12	2	65.8	NA	NA	NA	NA	NA
30-3	9-Aug-12	7	64.7	NA	NA	NA	NA	NA
SB-6	0 Aug 12	2	52.1	70.5	NA	NA	NA	NA
30-0	9-Aug-12	5	48.8	NA	NA	NA	NA	NA
SB-7	0 10 12	2	96.6	66.6	NA	NA	NA	NA
3B-7	9-Aug-12	4	47.2	48.3	NA	NA	NA	NA
CD 0	0.4	2	46.4	NA	NA	NA	NA	NA
SB-8	9-Aug-12	6	34.3	NA	NA	NA	NA	NA
CD O	0.4	2	39.2	74.4	NA	NA	NA	NA
SB-9	9-Aug-12	5	53.3	NA	NA	NA	NA	NA
CD 10	0.4	2	56.8	NA	NA	NA	NA	NA
SB-10	9-Aug-12	5	78.6	NA	NA	NA	NA	NA
CD 11	0.4	2	70.3	NA	NA	NA	NA	NA
SB-11	9-Aug-12	5	25.3	NA	NA	NA	NA	NA
CD 12	0.4	1	44.7	53.6	NA	NA	NA	NA
SB-12	9-Aug-12	5	56.4	57.5	<0.048	<0.241	<4.8	<9.8
CD 12	0.4	3	94	50.9	NA	NA	NA	NA
SB-13	9-Aug-12	5	71.4	62.7	NA	NA	NA	NA
CD 14	0.4	2	54	NA	NA	NA	NA	NA
SB-14	9-Aug-12	7	327	NA	NA	NA	NA	NA
CD 1E	0.000 12	2	35.8	NA	NA	NA	NA	NA
SB-15	9-Aug-12	5	64.2	NA	NA	NA	NA	NA
SB-16	0 Aug 12	2	101	94.0	<0.049	<0.245	<4.9	<9.8
2D-10	9-Aug-12	5	64.2	NA	NA	NA	NA	NA

NOTES NE = Not Established NA = Not Analyzed

AES Field Screening Report



www.animasenvironmental.com

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

> Durango, Colorado 970-403-3274

Project Location: Lateral K-7

Date: 8/10/2012

Client: Enterprise Products Company

Matrix: Soil

Sample ID	Collection Date	Time of Sample Collection	Sample Location	OVM (ppm)	Field Chloride (mg/kg)	Field TPH Analysis Time	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SB-1@3'	8/9/2012	9:26		303	NA	12:28	84.88	20.0	1	TCR
SB-1@5'	8/9/2012	9:30		1,175	NA	12:31	113.59	20.0	1	TCR
SB-2@4'	8/9/2012	9:41		89.6	NA	12:33	60.08	20.0	1	TCR
SB-2@6'	8/9/2012	9:43		38.6	NA	12:35	56.16	20.0	1	TCR
SB-3@3'	8/9/2012	10:07		82.2	NA	12:38	49.64	20.0	1	TCR
SB-3@6'	8/9/2012	10:20		633	NA	12:42	75.74	20.0	1	TCR
SB-4@2'	8/9/2012	10:26		31	NA	NA	NA	NA	NA	NA
SB-4@5'	8/9/2012	10:31		62.3	NA	12:44	53.55	20.0	1	TCR
SB-6@2'	8/9/2012	10:57		52.1	NA	9:35	70.52	20.0	1	TCR
SB-6@5'	8/9/2012	11:00		48.8	NA	NA	NA	NA	NA	NA
SB-7@2'	8/9/2012	11:24		96.6	NA	9:41	66.60	20.0	1	TCR
SB-7@4'	8/9/2012	11:26		47.2	NA	12:47	48.33	20.0	1	TCR
SB-8@2'	8/9/2012	11:30		46.4	NA	NA	NA	NA	NA	NA
SB-8@6'	8/9/2012	11:34		34.3	NA	NA	NA	NA	NA	NA

SB-9@2'	8/9/2012	12:15	39.2	NA	9:49	74.43	20.0	1	TCR
SB-9@5'	8/9/2012	12:18	53.3	NA	NA	NA	NA	NA	NA
SB-10@2'	8/9/2012	12:22	56.8	NA	NA	NA	NA	NA	NA
SB-10@5'	8/9/2012	12:25	78.6	NA	NA	NA	NA	NA	NA
SB-11@2'	8/9/2012	12:56	70.3	NA	NA	NA	NA	NA	NA
SB-11@5'	8/9/2012	12:59	25.3	NA	NA	NA	NA	NA	NA
SB-12@1'	8/9/2012	13:01	44.7	NA	12:50	53.55	20.0	1	TCR
SB-12@5'	8/9/2012	13:05	56.4	NA	12:52	57.47	20.0	1	TCR
SB-13@3'	8/9/2012	13:23	94.0	NA	12:54	50.94	20.0	1	TCR
SB-13@5'	8/9/2012	13:25	71.4	NA	12:56	62.69	20.0	1	TCR
SB-14@2'	8/9/2012	13:28	54	NA	NA	NA	NA	NA	NA
SB-14@7'	8/9/2012	14:15	327	NA	NA	NA	NA	NA	NA
SB-15@2'	8/9/2012	14:27	35.8	NA	NA	NA	NA	NA	NA
SB-15@5'	8/9/2012	14:30	64.2	NA	NA	NA	NA	NA	NA
SB-16@2'	8/9/2012	14:33	101	NA	9:55	94.01	20.0	1	TCR
SB-16@5'	8/9/2012	14:33	101	NA	NA	NA	NA	NA	NA

PQL Practical Quantitation Limit

ND Not Detected at the Reporting Limit

DF **Dilution Factor**

Not Analyzed NA

Field Chloride - Quantab Chloride Titrators or Drop Count Titration with Silver

Nitrate

Total Petroleum Hydrocarbons - USEPA 418.1 Sami Ross

Analyst:



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

August 16, 2012

Tami Ross

Animas Environmental Services 624 East Comanche Farmington, NM 87401

TEL: (505) 793-2072

FAX

RE: Enterprise Lateral K-7

OrderNo.: 1208520

Dear Tami Ross:

Hall Environmental Analysis Laboratory received 4 sample(s) on 8/11/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1208520

Date Reported: 8/16/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Enterprise Lateral K-7

Lab ID: 1208520-001

Client Sample ID: SB-1@5'

Collection Date: 8/9/2012 9:30:00 AM

Received Date: 8/11/2012 12:00:00 PM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	SE ORGANICS					Analyst: JMP
Diesel Range Organics (DRO)	28	9.9		mg/Kg	1	8/14/2012 9:17:51 AM
Surr: DNOP	103	77.6-140		%REC	1	8/14/2012 9:17:51 AM
EPA METHOD 8015B: GASOLINE RA	ANGE					Analyst: NSB
Gasoline Range Organics (GRO)	6.7	4.9		mg/Kg	1	8/14/2012 1:58:46 PM
Surr: BFB	126	84-116	S	%REC	1	8/14/2012 1:58:46 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	8/14/2012 1:58:46 PM
Toluene	0.056	0.049		mg/Kg	1	8/14/2012 1:58:46 PM
Ethylbenzene	ND	0.049		mg/Kg	1	8/14/2012 1:58:46 PM
Xylenes, Total	0.35	0.097		mg/Kg	1	8/14/2012 1:58:46 PM
Surr: 4-Bromofluorobenzene	99.6	80-120		%REC	1	8/14/2012 1:58:46 PM

Matrix: SOIL

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
- U Samples with CalcVal < MDL

Page 1 of 7

Lab Order 1208520

Date Reported: 8/16/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Enterprise Lateral K-7

Lab ID: 1208520-002

Client Sample ID: SB-3@6'

Collection Date: 8/9/2012 10:20:00 AM

Received Date: 8/11/2012 12:00:00 PM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS					Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/14/2012 10:23:38 AM
Surr: DNOP	105	77.6-140		%REC	1	8/14/2012 10:23:38 AM
EPA METHOD 8015B: GASOLINE RA	NGE					Analyst: NSB
Gasoline Range Organics (GRO)	18	4.9		mg/Kg	1	8/14/2012 4:22:39 PM
Surr: BFB	142	84-116	S	%REC	1	8/14/2012 4:22:39 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	8/14/2012 4:22:39 PM
Toluene	0.41	0.049		mg/Kg	1	8/14/2012 4:22:39 PM
Ethylbenzene	0.15	0.049		mg/Kg	1	8/14/2012 4:22:39 PM
Xylenes, Total	1.5	0.097		mg/Kg	1	8/14/2012 4:22:39 PM
Surr: 4-Bromofluorobenzene	105	80-120		%REC	1	8/14/2012 4:22:39 PM

Matrix: SOIL

Qualifiers: */2

*/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

U Samples with CalcVal < MDL

Page 2 of 7

Lab Order 1208520

Date Reported: 8/16/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Enterprise Lateral K-7

Lab ID: 1208520-003

Client Sample ID: SB-12@5'

Collection Date: 8/9/2012 1:05:00 PM

Received Date: 8/11/2012 12:00:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	8/14/2012 10:45:33 AM
Surr: DNOP	110	77.6-140	%REC	1	8/14/2012 10:45:33 AM
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/14/2012 4:51:24 PM
Surr: BFB	103	84-116	%REC	1	8/14/2012 4:51:24 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.048	mg/Kg	1	8/14/2012 4:51:24 PM
Toluene	ND	0.048	mg/Kg	1	8/14/2012 4:51:24 PM
Ethylbenzene	ND	0.048	mg/Kg	1	8/14/2012 4:51:24 PM
Xylenes, Total	ND	0.097	mg/Kg	1	8/14/2012 4:51:24 PM
Surr: 4-Bromofluorobenzene	101	80-120	%REC	1	8/14/2012 4:51:24 PM

Matrix: SOIL

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
- U Samples with CalcVal < MDL</p>

Page 3 of 7

Lab Order 1208520

Date Reported: 8/16/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Enterprise Lateral K-7

Lab ID: 1208520-004

Project:

Client Sample ID: SB-16@2'

Collection Date: 8/9/2012 2:33:00 PM

Received Date: 8/11/2012 12:00:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	SE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	8/14/2012 11:29:47 AM
Surr: DNOP	112	77.6-140	%REC	1	8/14/2012 11:29:47 AM
EPA METHOD 8015B: GASOLINE RA	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/14/2012 5:20:13 PM
Surr: BFB	99.9	84-116	%REC	1	8/14/2012 5:20:13 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.049	mg/Kg	1	8/14/2012 5:20:13 PM
Toluene	ND	0.049	mg/Kg	1	8/14/2012 5:20:13 PM
Ethylbenzene	ND	0.049	mg/Kg	1	8/14/2012 5:20:13 PM
Xylenes, Total	ND	0.098	mg/Kg	1	8/14/2012 5:20:13 PM
Surr: 4-Bromofluorobenzene	101	80-120	%REC	1	8/14/2012 5:20:13 PM

Matrix: SOIL

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

U Samples with CalcVal < MDL

Page 4 of 7

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1208520

16-Aug-12

Client:

Animas Environmental Services

Project:

Enterprise Lateral K-7

Sample ID MB-3288	SampType: MBLK	TestCode: EPA Method	8015B: Diesel Range (Organics
Client ID: PBS	Batch ID: 3288	RunNo: 4810		
Prep Date: 8/13/2012	Analysis Date: 8/13/2012	SeqNo: 135920	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Diesel Range Organics (DRO)	ND 10			
Surr: DNOP	9.7 10.00	97.5 77.6	140	
Sample ID LCS-3288	SampType: LCS	TestCode: EPA Method	8015B: Diesel Range (Organics
Client ID: LCSS	Batch ID: 3288	RunNo: 4810		
Prep Date: 8/13/2012	Analysis Date: 8/13/2012	SeqNo: 135921	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Diesel Range Organics (DRO)	35 10 50.00	0 70.0 52.6	130	
Surr: DNOP	4.2 5.000	83.6 77.6	140	
Sample ID 1208520-001AMS	SampType: MS	TestCode: EPA Method	8015B: Diesel Range C	Organics
Client ID: SB-1@5'	Batch ID: 3288	RunNo: 4836		
Prep Date: 8/13/2012	Analysis Date: 8/14/2012	SeqNo: 136797	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Diesel Range Organics (DRO)	58 10 51.23	28.23 57.5 57.2	146	
Surr: DNOP	4.5 5.123	88.4 77.6	140	

Sull. DI4OF	4.0		5.125		00.4	77.0	140			
Sample ID 1208520-001AMS	D SampT	уре: М\$	SD	Test	tCode: El	PA Method	8015B: Dies	el Range C	Organics	
Client ID: SB-1@5'	Batch	ID: 32	88	R	RunNo: 4	836				
Prep Date: 8/13/2012	Analysis D	ate: 8/	14/2012	S	SeqNo: 1	36798	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	64	10	51.02	28.23	69.3	57.2	146	9.70	24.5	
Surr: DNOP	4.7		5.102		92.3	77.6	140	0	0	

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 5 of 7

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1208520

16-Aug-12

Client:

Animas Environmental Services

Project:

Enterprise Lateral K-7

Sample ID MB-3299

SampType: MBLK

TestCode: EPA Method 8015B: Gasoline Range

Client ID: PBS

Batch ID: 3299

RunNo: 4873

8/13/2012 Prep Date:

Analysis Date: 8/14/2012

SeqNo: 137753

Units: mg/Kg

Analyte Gasoline Range Organics (GRO)

Result PQL 5.0 SPK value SPK Ref Val %REC LowLimit

%RPD HighLimit

Qual

Qual

S

S

S

RPDLimit

RPDLimit

Surr: BFB

ND 970

1000

96.6

116

Sample ID LCS-3299

LCSS

SampType: LCS Batch ID: 3299

TestCode: EPA Method 8015B: Gasoline Range

Client ID: Prep Date:

8/13/2012

RunNo: 4873

84

%RPD

%RPD

Analyte

Analysis Date: 8/14/2012

SeqNo: 137754

Units: mg/Kg

Result POL SPK value SPK Ref Val %REC LowLimit HighLimit 23 5.0 25.00 n 90.9 85 115 Gasoline Range Organics (GRO) Surr: BFB 990 1000 98.6 84 116

24.46

978.5

Sample ID 1208520-001AMS

SampType: MS

49

1400

Result

57

1400

TestCode: EPA Method 8015B: Gasoline Range

RunNo: 4873

Prep Date: 8/13/2012

SB-1@5'

Batch ID: 3299 Analysis Date: 8/14/2012

SeqNo: 137758

Units: mg/Kg

116

Analyte Gasoline Range Organics (GRO)

Client ID:

Result PQL 4.9

%REC SPK value SPK Ref Val 6.660

HighLimit LowLimit 174 70 130

84

84

RPDLimit Qual S

Surr: BFB

Sample ID 1208520-001AMSD

SampType: MSD

TestCode: EPA Method 8015B: Gasoline Range

Client ID: SB-1@5'

Prep Date: 8/13/2012

Batch ID: 3299

RunNo: 4873

116

Analyte

Analysis Date: 8/14/2012 **PQL**

SeqNo: 137759

142

138

Units: mg/Kg

%RPD **RPDLimit** Qual

Gasoline Range Organics (GRO) Surr: BFB

4.9 985.2

SPK value SPK Ref Val 24.63 6.660

%REC LowLimit 203

HighLimit 70 130

14.4 0

22.1 0

Qualifiers:

R

*/X Value exceeds Maximum Contaminant Level

E Value above quantitation range

Analyte detected below quantitation limits RPD outside accepted recovery limits

Analyte detected in the associated Method Blank B

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit Reporting Detection Limit

Page 6 of 7

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1208520

16-Aug-12

Client:

Animas Environmental Services

Project:

Enterprise Lateral K-7

Sample ID MB-3299	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batch	ID: 32	99	RunNo: 4873						
Prep Date: 8/13/2012	Analysis D	ate: 8/	14/2012	SeqNo: 137765 Units: mg				g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		99.9	80	120			
Sample ID LCS-3299	SampT	ype: LC	s	TestCode: EPA Method 8021B: Volatiles						

Sample ID LCS-3299	SampT	ype: LC	S	Tes	tCode: E	PA Method	8021B: Vola	iles		
Client ID: LCSS	Batch	1D: 32	99	F	RunNo: 4	873				
Prep Date: 8/13/2012	Analysis D	ate: 8/	14/2012	8	SeqNo: 1	37766	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.050	1.000	0	98.9	76.3	117			
Toluene	1.0	0.050	1.000	0	101	80	120			
Ethylbenzene	1.0	0.050	1.000	0	104	77	116			
Xylenes, Total	3.000	0	105	76.7	117					
Surr: 4-Bromofluorobenzene	1.0		1.000		105	80	120			

Sample ID 1208520-004AMS	SampT	уре: М	3	Tes	TestCode: EPA Method 8021B: Volatiles					
Client ID: SB-16@2'	Batch	n ID: 32	99	F						
Prep Date: 8/13/2012	Analysis D	oate: 8/	14/2012	S	SeqNo: 137774 Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.048	0.9681	0	102	67.2	113			
Toluene	1.0	0.048	0.9681	0	106	62.1	116			
Ethylbenzene	1.1	0.048	0.9681	0	111	67.9	127			
Xylenes, Total 3.2 0.097 2.904			2.904	0.01761	111	60.6	134			
Surr: 4-Bromofluorobenzene	1.0		0.9681		106	80	120			

Sample ID 1208520-004AM	SD Samp1	ype: MS	SD	Tes						
Client ID: SB-16@2'	Batch	h ID: 32	99	RunNo: 4873						
Prep Date: 8/13/2012	Analysis D	Date: 8/	14/2012	SeqNo: 137775			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.048	0.9653	0	97.4	67.2	113	4.76	14.3	
Toluene	0.97	0.048	0.9653	0	101	62.1	116	5.01	15.9	
Ethylbenzene	1.0	0.048	0.9653	0	104	67.9	127	6.22	14.4	
Xylenes, Total	3.1	0.097	2.896	0.01761	106	60.6	134	5.02	12.6	
Surr: 4-Bromofluorobenzene	1.0		0.9653		106	80	120	0	0	

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105

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

Sample Log-In Check List

Clier	nt Name: Animas Environmental	Work Order N	Number:	1208520					
Rece	eived by/date: 08/11/12								
Logg	ged By: Ashley Gallegos 8/11/2012 12:00:00 F	РМ	A	7					
Com	pleted By: Ashley Gallegos 8/13/2012 9:31:59 Al	М	A	7					
Revi	ewed By: AT 08/13/12								
Cha	in of Custody								
1.	Were seals intact?	Yes	No :	Not Present					
2.	Is Chain of Custody complete?	Yes 🗸	No	Not Present					
3.	How was the sample delivered?	Client		•					
Log	<u>In</u>								
4.	Coolers are present? (see 19. for cooler specific information)	Yes 🗸	No	NA					
5.	Was an attempt made to cool the samples?	Yes 🗸	No	NA					
6.	Were all samples received at a temperature of >0° C to 6.0°C	Yes 🗸	No	NA					
7.	Sample(s) in proper container(s)?	Yes 🗸	No						
8.	Sufficient sample volume for indicated test(s)?	Yes 🗸	No						
9.	Are samples (except VOA and ONG) properly preserved?	Yes 🗸	No :						
10.	Was preservative added to bottles?	Yes	No 🗸	NA :					
14	VOA vials have zero headspace?	Yes	No	No VOA Vials ✔					
	Were any sample containers received broken?	Yes		THE VOIL VIGIS VI					
13.	Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗸		# of preserved bottles checked					
	Are matrices correctly identified on Chain of Custody?	Yes V	No :	for pH: (<2 or >12 unless noted)					
2 2.7	Is it clear what analyses were requested?	Yes 🗸	No	Adjusted?					
16.	Were all holding times able to be met?	Yes 🗸	No .						
	(If no, notify customer for authorization.)			Checked by:					
Spe	cial Handling (if applicable)								
17.	Was client notified of all discrepancies with this order?	Yes	No	NA 🗸					
	Person Notified: Date:			MANAMENT AND THE STATE OF THE S					
	By Whom: Via:	eMail	Phone	Fax In Person					
	Regarding:			A SA SA SA SA AN TIME A SA					
į	Client Instructions:								
18. Additional remarks:									
19.	Cooler Information								
	Cooler No Temp °C Condition Seal Intact Seal No 1 3.4 Good Not Present	Seal Date	Sign	ed By					
	L								

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

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

						OPERA		In	Initial Report				
		nterprise Pro				Contact Aaron Dailey							
		venue, Farm		7401		Telephone No. (505) 599-2286							
Facility Name Lateral H-37 Pipeline						Facility Type Natural gas gathering line							
Surface Owner Private Mineral Owner						rivate		Lease	Lease No. N/A				
LOCATION OF RELEASE													
Unit Letter	Section 3	Township 31N				/South Line Feet from the Ea		East/West Line	County San Juan	-			
Latitude_N36 56.051 Longitude_W 108 10.986										2,15)IA:			
Type of Release: Natural Gas							Release: 84 MCI		Volume Recovered: Soil remediation (dig and haul) to OCD standard				
Source of Re	lease 6" Ga	is Gathering L	ine			Date and Hour of Occurrence 11.18.2011 @ 08:00 hours			Date and Hour of Discovery 11.18.2011 @ 08:00 hours				
Was Immedia	ate Notice (Yes [No Not Rec	quired	If YES, To Whom?							
By Whom?						Date and Hour							
Was a Watercourse Reached? ☐ Yes ☑ No						If YES, Volume Impacting the Watercourse.							
If a Watercourse was Impacted, Describe Fully.*													
Describe Cause of Problem and Remedial Action Taken.* Enterprise employees were dispatched to a reported line leak located on lateral H-37, which is located on private land.													
Describe Area Affected and Cleanup Action Taken.* Pipeline was repaired on 11.29.2011. Contaminated soil was removed and hauled to an OCD permitted landfarm facility. No groundwater was encountered and we were able to achieve the <100ppm TPH and BTEX standard for all sidewalls and the bottom of the excavation. A third party environmental contractor was used to oversee the environmental cleanup. A third party environmental assessment and report will be submitted to the Aztec office once this is complete.													
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.													
Λ						OIL CONSERVATION DIVISION Approved by District Supervisor:							
Title: Field Environmental Scientist						Approval Date: //2/2012 Expiration Date:							
E-mail Addre	E-mail Address: amdailey@eprod.com					Conditions of Approval:			Attached	Attached			
Date: 12.2.	2011	F	hone: (50	5) 599-2286									

* Attach Additional Sheets If Necessary

NJK1201256123