3R-440

Site Investigation Report

Date: 5/16/12

Contents

Introduction	
Vegetation Reclamation Procedure	2
Revision of the Reclamation Plan	2
Project Description	2
Estimated Total Area of Disturbance	2
Pre-Disturbance Site Visit	3
Vegetation Community	3
Proposed Reclamation Seed Mix	
Vegetation Reclamation Standards	4
Pre-Disturbance Weed Survey	4
Pre-Disturbance Soil Evaluation	4
Pre-Disturbance Site Photographs	
Reclamation Techniques for Successful Revegetation	9
Vegetation and Site Clearing	9
Topsoil Stripping, Storage, and Replacement	9
Erosion Control/Water Management Features	9
Seedbed Preparation	9
Soil Amendments	
Seeding	
Mulching	
Noxious and Invasive Weed Control	
Monitoring Requirements	
Post-Disturbance Monitoring Initiation	
Post-Disturbance Monitoring Photographs	
Annual Monitoring	
Attainment of Vegetation Reclamation Standards	
Long-Term Monitoring	
Final Abandonment	
Cessation of Monitoring	
References	



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Site Investigation Report Enterprise Products Company Lateral K-31 December 2011 Pipeline Release SE¼ SW¼ Section 16, T25N, R6W Rio Arriba County, New Mexico

May 16, 2012

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Contents

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1.0	Introduction	1
1.1	Site Location and NMOCD Ranking	1
1.2	Release Information	1
1.3	Initial Release Assessment	1
2.0	Release Investigation – March 2012	2
2.1	Permits and Access Agreements	2
2.2	Utilities Notification	2
2.3	Project Notification	2
2.4	Health and Safety Plan	2
2.5	Soil Borings	3
	2.5.1 Drilling Methods	3
	2.5.2 Soil Sample Collection	3
	2.5.3 Soil Field Screening	3
	2.5.4 Soil Laboratory Analyses	4
2.6	Groundwater	4
	2.6.1 Groundwater Sample Collection	4
	2.6.2 Laboratory Analyses - Groundwater	4
2.7	Sample Preservation and Handling	4
3.0	Site Investigation Results	4
3.1	Soil	4
3.2	Groundwater	5
4.0	Conclusion and Recommendations	5
5.0	Certification	6
6.0	References	7

Figure 1.	Topographic Site Location Map
Figure 2.	Aerial Site Map
Figure 3.	Soil Sample Locations and Results, March 2012
Figure 4.	Groundwater Analytical Results, March 2012
Figure 5.	Dissolved Benzene Concentration Contours, March 2012

Tables

Table 1.	Summary of Soil Field-Screening and Laboratory Analytical Results
Table 2.	Summary of Groundwater Laboratory Analytical Results

Appendices

Appendix A.	Soil Boring Logs
Appendix B.	Soil and Groundwater Laboratory Analytical Reports

1.0 Introduction

Animas Environmental Services, LLC (AES), on behalf of Enterprise Products Company, Inc. (Enterprise), has prepared this Site Investigation Report for the Lateral K-31 pipeline release that was discovered and confirmed in December 2011.

1.1 Site Location and NMOCD Ranking

The release area is located on Federal land under jurisdiction of the Bureau of Land Management (BLM) within the SE¼ SW¼, Section 16, T25N, R6W, Rio Arriba County, New Mexico. Latitude and longitude of the release were recorded as N36.39373 and W107.47519, respectively. The release location is within the Largo Wash floodplain. Surface runoff drains northeast towards Largo Wash, which is 1,550 feet east of the release location. Depth of groundwater is approximately 14 feet below ground surface (bgs). A topographic site location map is included as Figure 1, and an aerial map showing the release location is included as Figure 2.

Prior to initial site work, the New Mexico Oil Conservation Division (NMOCD) database was reviewed along with the New Mexico Office of the State Engineer (NMOSE) database for information to assist in site ranking. Once on-site, AES personnel assessed the NMOCD ranking criteria using topographical interpretation, Global Position System (GPS) elevation readings, and visual reconnaissance. No domestic or private registered water wells were identified within 1,000 feet of the location. The location was assessed a NMOCD ranking score of 20.

1.2 Release Information

A release was reported at the location on December 2, 2011, by Enterprise personnel, and on the same date Enterprise personnel were dispatched to locate and isolate the leak. The line repair was also completed on December 2, 2011. The cause of the release was identified as a corrosion hole on the underside of the line.

1.3 Initial Release Assessment

On December 8, 2011, Tami Ross of AES met with Enterprise representatives at the location to complete an initial release assessment. Four test holes were each excavated to a total depth of 15.5 feet bgs, from which a total of six soil samples were collected for laboratory analysis. A groundwater sample from a groundwater monitor well labeled MW-4, which is located near the release area, was collected for laboratory analysis. The soil samples were field screened for volatile organic compounds (VOCs) with a photo-ionization detector (PID) organic vapor meter (OVM). VOC readings (via OVM) and soil laboratory analytical results for total benzene, toluene, ethylbenzene, and total xylenes (BTEX) and total petroleum hydrocarbons (TPH) exceeded applicable New Mexico Oil Conservation Division (NMOCD) action levels in two of the four test holes (TP-3 and TP-4). Groundwater was not

encountered in the test holes; however, depth to water was measured at 14 feet bgs in the nearby groundwater monitor well. The laboratory analytical results for the groundwater sample collected from this well showed reported benzene and total BTEX concentrations below laboratory detection limits. Details of the initial release assessment were submitted to Enterprise in a letter report dated January 20, 2012.

Based on the field screening readings, laboratory analytical results, and the shallow depth of groundwater, AES and Enterprise determined that a limited investigation of the release extents would be appropriate prior to implementing further mitigation measures.

2.0 Release Investigation – March 2012

On March 15 and 16, 2012, AES completed an additional site investigation in order to delineate the full extent of petroleum hydrocarbon impact on subsurface soils and groundwater resulting from the release. The investigation included the installation of 12 soil borings and the collection of soil and groundwater samples in accordance with U.S. Environmental Protection Agency (USEPA) Environmental Response Team's Standard Operating Procedures (SOPs), and applicable American Society of Testing and Materials (ASTM) standards.

2.1 Permits and Access Agreements

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

2.2 Utilities Notification

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

2.3 Project Notification

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

2.4 Health and Safety Plan

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

understanding of the information contained within the JSA. The JSA was implemented and enforced on site by the assigned Site Safety and Health Officer.

2.5 Soil Borings

On March 15 and 16, 2012, AES installed 12 soil borings (SB-1 through SB-12) in order to define the lateral and vertical extent of soil contamination and the lateral extent of groundwater contamination. All soil borings were advanced to a total depth of 16 feet bgs. The local site lithology consists of fine sand from the surface to 2 feet bgs, sandy clay from 2 feet bgs to 14 feet bgs, and fine sand at 14 feet bgs to 16 feet bgs. The locations of soil borings are presented on Figure 3.

2.5.1 Drilling Methods

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

2.5.2 Soil Sample Collection

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

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

2.5.3 Soil Field Screening

Samples were collected at 4 foot intervals from each soil boring and field screened for VOC vapors utilizing a PID-OVM calibrated with isobutylene gas. Once collected, the soil samples to be field screened were immediately placed in 1 gallon Ziploc bags and sealed. The soil samples were then allowed to warm to approximately 80°F. Approximately 10 minutes were allowed for the soil to be heated and for any VOCs in the soil to accumulate in the headspace of the bag. During the initial stages of headspace development, the sample was gently disaggregated to promote vapor development. VOCs were then measured by inserting the sampling tube of the PID-OVM into a small opening in the seal of the bag. The highest (peak) measurements were recorded onto the soil boring logs.

2.5.4 Soil Laboratory Analyses

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

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

2.6 Groundwater

2.6.1 Groundwater Sample Collection

Groundwater was encountered in each soil boring between 14 to 16 feet bgs. A total of 12 groundwater samples (SB-1W through SB-12W) were collected from the borings using new and dedicated disposable bailers.

2.6.2 Laboratory Analyses - Groundwater

All groundwater analytical samples were analyzed for the following parameters:

BTEX per USEPA Method 8021

2.7 Sample Preservation and Handling

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

3.0 Site Investigation Results

3.1 Soil

Soil samples (SB-1 through SB-12) were collected from each boring for field screening and laboratory analysis. OVM field screening readings ranged from 10.1 in SB-4 up to 3,519 ppm in SB-9, with VOC concentrations above the NMOCD threshold of 100 ppm in:

- SB-1 at 10 feet bgs (2,769 ppm);
- SB-2 at 2 to 4 feet bgs (184 ppm) and 12 feet bgs (1,683 ppm);
- SB-3 at 12 feet bgs (417 ppm);
- SB-4 at 4 feet bgs (482 ppm);
- SB-9 at 10 feet bgs (3,519 ppm) and 14 feet bgs (128 ppm);
- SB-10 at 4 feet bgs (211 ppm); and
- SB-11 at 10 feet bgs (3, 210 ppm).

Soil laboratory analytical results for all samples were below NMOCD action levels for benzene and total BTEX. TPH concentrations exceeded the NMOCD action level in SB-1 at 10 feet bgs (280 mg/kg), SB-9 at 10 feet bgs (440 mg/kg) and 14 feet bgs (8,700 mg/kg), and SB-11 at 10 feet bgs (1,340 mg/kg). Tabulated analytical results are presented in Table 1 and on Figure 3. Soil laboratory analytical reports are presented in Appendix B.

3.2 Groundwater

Groundwater samples (SB-1W through SB-12W) were collected from borings SB-1 through SB-12 for laboratory analysis. Analytical results showed that benzene concentrations exceeded the WQCC standard of 10 μ g/L in eight groundwater samples, SB-1W (28 μ g/L), SB-2W (46 μ g/L), SB-3W (1,100 μ g/L), SB-4W (130 μ g/L), SB-7W (37 μ g/L), SB-9W (430 μ g/L), SB-11W (1,400 μ g/L), and SB-12W (13 μ g/L). All other samples had BTEX concentrations either below laboratory detection limits or well below applicable WQCC standards. Tabulated groundwater analytical results are presented in Table 2 and on Figure 4. A dissolved phase benzene concentration contour map is provided in Figures 5. Groundwater analytical laboratory reports are presented in Appendix B.

4.0 Conclusion and Recommendations

A total of 12 soil borings (SB-1 through SB-12) were installed by AES on March 15 and 16, 2012. Soil samples collected for laboratory analysis showed that contaminant concentrations exceeded NMOCD action levels for TPH in borings SB-1, SB-9, and SB-11. The highest TPH concentration was reported in SB-9 with 8,700 mg/kg.

Dissolved phase analytical results indicate groundwater is impacted above the WQCC standard for benzene in SB-1W, SB-2W, SB-3W, SB-4W, SB-7W, SB-9W, SB-11W, and SB-12W. The highest concentration for benzene was reported in SB-11W with 1,400 μ g/L. The dissolved phase concentration contour map for benzene shows that the release appears to have migrated primarily north along the pipeline corridor and to the northeast (following gradient) towards Largo Canyon Wash. The highest dissolved phase concentrations were noted in SB-3W and SB-11W.

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

5.0 Certification

I, the undersigned, am personally familiar with the information presented in this Site Investigation Report, prepared on behalf of Enterprise Products Company, Inc. for the Lateral K-31 December 2011 pipeline release. I attest that it is true and complete to the best of my knowledge.

Jami Koss

Tami C. Ross, CHMM Project Manager

Elizabeth V Mendly

Elizabeth McNally, P.E. Principal

6.0 References

- Animas Environmental Services, LLC (AES). Enterprise Lateral K-31 Letter Report, January 20, 2012
- New Mexico Oil Conservation Division. Guidelines for Remediation of Leaks, Spills, and Releases. October 13, 1993.
- U.S. Environmental Protection Agency (USEPA). 1982. Methods for Chemical Analysis for Water and Wastes. Document EPA-600, July, 1982.
- USEPA. 1992. SW-846, 3rd Edition, *Test Methods for Evaluating Solid Waste: Physical Chemical Methods*, dated November, 1986, and as amended by Update One, July, 1992.
- USEPA. 1991. Site Characterization for Subsurface Remediation, EPA 625/4-91-026, November, 1991.
- USEPA. 1997. Expedited Site Assessment Tools for Underground Storage Tank Sites. OSWER 5403G and EPA 510B-97-001, March, 1997.
- USEPA. 2001. Contract Laboratory Program (CLP) Guidance for Field Samplers. OSWER 9240.0-35, EPA 540-R-00-003. June, 2001.











TABLE 1 SUMMARY OF SOIL FIELD-SCREENING AND LABORATORY ANALYTICAL RESULTS Enterprise Products Company Lateral K-31 Pipeline December 2011 Release Rio Arriba County, New Mexico

Sample ID	Date Sampled	Depth (ft)	VOCs OVM (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Xylene (mg/kg)	BTEX (mg/kg)	GRO (C6-C10) (mg/kg)	DRO (C10-C22) (mg/kg)	TPH (mg/kg)
Sector States	NMOCD Act	ion Level	100	10	NE	NE	NE	50	NE	NE	100
CP 1	15 Mar 12	10	2,769	<0.49	<0.49	0.73	4.9	5.6	190	89	280
3D-1	13-11/11-12	14	27	<0.046	<0.046	<0.046	<0.092	<0.23	<4.6	<9.7	<14
50.2	15 Mar 12	2 to 4	184	0.070	0.10	0.054	0.49	0.71	5.3	<10	5.3
3D-2	13-11/101-12	12	1,683	<0.049	<0.049	<0.049	<0.098	<0.25	<4.9	<10	<15
CD 2	15 Mar 12	12	417	<0.049	<0.049	<0.049	<0.099	<0.25	<4.9	<10	<15
30-3	13-11/101-12	14	39	<0.048	<0.048	<0.048	<0.096	<0.24	<4.8	<10	<15
CD 4	15-Mar-12	4	482	0.11	0.55	0.16	1.6	2.4	10	20	30
5B-4		14	10.1	<0.048	<0.048	<0.048	<0.097	<0.24	<4.6	<9.8	<14
CD F	10 Mar 12	4	70.5	<0.048	<0.048	<0.048	0.24	0.24	<4.8	<9.7	<15
38-3	10-IVIAR-12	14	10.4	<0.048	<0.048	<0.048	<0.095	<0.24	<4.8	<9.6	<14
CD C	10 14-12	2	78.9	<0.097	<0.097	<0.097	0.31	0.31	11	77	88
58-0	16-IVIAR-12	14	17.3	<0.049	<0.049	<0.049	<0.097	<0.24	<4.9	<10	<15
CD 7	10 10 10	6	40.3	<0.047	<0.047	<0.047	<0.095	<0.24	<4.7	<10	<15
SB-1	16-Iviar-12	14	20.5	<0.049	<0.049	<0.049	<0.098	<0.25	<4.9	<9.9	<15
CD 0	10 10-10	4	39.1	< 0.050	<0.050	< 0.050	0.20	0.20	<5.0	<10	<15
5B-8	16-War-12	14	17.3	<0.047	<0.047	<0.047	0.098	0.098	<4.7	<9.9	<15

Animas Environmental Services, LLC. Lateral K-31 Soil and GW Labs 050312 Lateral K-31 Site Investigation Report May 16, 2012 p. 1

TABLE 1

SUMMARY OF SOIL FIELD-SCREENING AND LABORATORY ANALYTICAL RESULTS Enterprise Products Company Lateral K-31 Pipeline December 2011 Release Rio Arriba County, New Mexico

Sample ID	Date Sampled	Depth (ft)	VOCs OVM (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Xylene (mg/kg)	BTEX (mg/kg)	GRO (C6-C10) (mg/kg)	DRO (C10-C22) (mg/kg)	TPH (mg/kg)
	NMOCD Act	ion Level	100	10	NE	NE	NE	50	NE	NE	100
SR Q	16 Mar 12	10	3,519	0.51	9.4	1.9	19	31	190	250	440
30-9	10-10101-12	14	128	29	480	64	580	1,150	6,700	2,000	8,700
SR 10	16 Mar 12	4	211	<0.047	<0.047	<0.047	0.20	0.20	5.8	32	38
36-10	10-1011-12	14	19.1	<0.048	<0.048	<0.048	<0.095	<0.24	<4.8	<9.9	<15
SR 11	16 Mar 12	10	3,210	0.67	14	10	83	108	1,100	240	1,340
36-11	10-1/101-12	14	23.7	<0.048	<0.048	<0.048	<0.095	<0.24	7.0	<10	7.0
SR-12	16 Mar 12	4	10.9	<0.048	<0.048	<0.048	<0.097	<0.24	<4.8	<10	<15
30-12	16-Mar-12	14	10.2	0.070	<0.048	<0.048	<0.096	0.070	<4.8	<10	<15

NOTES

NE = Not Established

NA = Not Analyzed

Animas Environmental Services, LLC. Lateral K-31 Soil and GW Labs 050312 Lateral K-31 Site Investigation Report May 16, 2012 p. 2

Well ID	Date Sampled	Benzene (μg/L)	Toluene (μg/L)	Ethyl- Benzene (µg/L)	Total Xylenes (μg/L)	
Analytic	al Method	8021	8021	8021	8021	
wo	CC Standard	10	750	750	620	
SB-1W	15-Mar-12	28	<2.0	2.0	<4.0	
SB-2W	15-Mar-12	46	5.9	<2.0	<4.0	
SB-3W	15-Mar-12	1,100	300	<20	75	
SB-4W	15-Mar-12	130	17	<5.0	<10	
SB-5W	16-Mar-12	5.8	2.5	<2.0	<4.0	
SB-6W	16-Mar-12	1.2	<1.0	<1.0	<2.0	
SB-7W	16-Mar-12	37	<2.0	<2.0	<4.0	
SB-8W	16-Mar-12	2.2	<2.0	<2.0	<4.0	
SB-9W	16-Mar-12	430	670	70	400	
SB-10W	16-Mar-12	7.9	9.1	<20	5.1	
SB-11W	16-Mar-12	1,400	98	<20	140	
SB-12W	15-Mar-12	13	7.0	<2.0	4.3	

TABLE 2

Notes:

< - Analyte below laboratory detection limit

NA - Not Analyzed

NE - Not Established

Lateral K-31 Site Investigation Report May 16, 2012

A	AES Animas Environmental Services, LLC. 624 East Comanche St. Farmington, NM 87401							SB-1		
EN L RI SE1	ITERPR ATERAL O ARRIE 1/4, SW1	ISE PRC K-31 PI 3A COUI /4, SEC	DUCTS COM PELINE REL NTY, NEW M TION 16, T25	MPANY EASE EXICO N, R6W	Date Started Date Completed Hole Diameter Drilling Method Sampling Method	: N36.39377 : W107.47505 : Google Earth : T. Long				
Depth in Feet	Surf. Elev. 0	nscs	GRAPHIC			DESCRI	PTION		Blow Count (mdd)	
0	- 0	SC		Clayey Sar	nd, Fine, Reddish Br	own, Moist	, Slight Odor.		31	
2	2	SC		Clayey Sar	nd, Fine, Dark Grey,	Moist, Stro	ong Odor, Stainir	ng.	201	
6	6			Sandy Clay	/, Black, Moist, Stroi	ng Odor, S	taining.		64	
8	8	SC							56	
	10								48	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12	SC		Sandy Clay	/, Dark Grey, Satura	ted, Strong) Odor, Staining.		2,769	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	14								25	
16		SC		Sandy Clay	r, Black, Saturated, S	Strong Odd	r, Staining.		27	

Al	ES	Y	624 East Co Farmington	nimas onmental ices, LLC. omanche St. o, NM 87401			SB-2	
EN L/ RIG SE1	ATERPRI ATERAL O ARRIE /4, SW1	: N36.39386 : W107.47508 : Google Earth : T. Long						
Depth in Feet	Surf. Elev. 0	USCS	GRAPHIC			DESCRIPTION		BIOM Count (ppm)
0	- 0	sw		Sand, Fine	, Light Brown, Mois	t, No Odor.		38.5
2	2	sw		Sand, Fine	, Grey, Moist, Stron	g Odor, Staining		
4	4	CL		Clay			Links and	
		SC		Sandy Clay	y, Brown, Moist, Ligi	nt Staining, Slight Odo	r.	65
6	6 8	sc		Sandy Clay	y, Brown, Moist, Sta	ining, Stronger Odor.		81
		SW		Sand, Fine				47
10	10	sc		Sandy Clay	y, Brown/Black, Moi	st/Wet, Strong Odor, S	Slight Staining	36
12	12	SW		Sand, Fine	, Brown, Wet, Stron	g Odor, Staining		1,683
14	14			Sand, Fine	, Black, Wet, Strong	g Odor, Strong Staining	9	
16		SP						33

05-21-2012 S:\Animas 2000/2012 Projects\Enterprise\Lateral K-31\Soil Boring Logs\SB-2.bor

Al	ES	Q	Animas Environmen Services, LL 624 East Comanch Farmington, NM 8	al C. e St. 7401	SB-3						
EN L RIU SE1	ITERPRI ATERAL O ARRIE 1/4, SW1	SE PROI K-31 PIF 3A COUN /4, SECT	DUCTS COMPANY PELINE RELEASE TY, NEW MEXICO ION 16, T25N, R61	V Date Started Date Completed Hole Diameter V Drilling Method Sampling Method	: 3/15/12 : 3/15/12 : 2-inch : Direct Push : Split Spoon	: N36.39392 : W107.47510 : Google Earth : T. Long					
Depth in Feet	Surf. Elev. 0	nscs	GRAPHIC		DESCRIPTION		DIQ (ppm)				
0	- 0	sw	Sand	, Fine, Brown, Dry, Slight	t Odor, Staining		57				
2-	-2	SC	Sand	y Clay, Grey/Black, Mois	t, Strong Odor, Heavy Sta	aining	313				
4	-4		Sand	y Clay, Brown, Moist, Slig	ght Odor, Slight Staining		78				
8	-8	50					85				
10-	10	SC	Sand	y Clay, Brown, Moist, Slig	ght Odor, Heavy Staining		30				
12-	-12		Sand	Eine Crey Meist Slick	t Oder, Henry Steining		35				
		sw	Sand	rme, Grey, Moist, Sligh	t Odor, neavy Staining		417				
14	-14	sw	Sand	Fine, Grey, Wet, Slight	Odor, Heavy Staining		39				



ES	Q	Animas Environmental Services, LLC. 624 East Comanche St. Farmington, NM 87401			SB-5	
NTERPR ATERAL IO ARRIE 1/4, SW1	ISE PRO K-31 PIF BA COUN /4, SECT	DUCTS COMPANY PELINE RELEASE ITY, NEW MEXICO ION 16, T25N, R6W	Date Started Date Completed Hole Diameter Drilling Method Sampling Method	: N36.39381 : W107.47497 : Google Earth : T. Long		
Surf. Elev. 0	uscs	GRAPHIC		DESCRIPTION		DIA ODIA (ppm)
0	sw	Sand, Find	e, Black, Moist, Stror	ng Odor, Heavy Staining		89
-2 -4		Sandy Cla	ıy, Black, Moist, Sligh	ht Odor, Heavy Staining		70.5
-6	SC					48
8						47.3
-10	SC	Sandy Cla	y, Black, Moist, Sligh	nt Odor, Heavy Staining		28.9
.12						20.2
-12	SC	Sandy Cla	y, Black, Wet, Slight	Odor, Heavy Staining		5.6
14	sw	Sand, Fine	e, Brown/Grey, Wet,	No odor.		10.4
	LES ATERPRI ATERPRI DARRIE 1/4, SW1 Surf. Elev. 0 -0 -2 -4 -6 -6 -10 -12 -14	LES C	ES C Company Services LLC 242 East Commente St. 242 East Commente St. 243 East Commente St. 244 East Commente	Anima- Environmental Service. LIZ VTERPRISE PRODUCTS COMPANY ATERAL K.31 PIPELINE RELEASE O ARRIBA COUNTY, NEW MEXICO 1/4, SW1/4, SECTION 16, T25N, R6W Date Started Date Completed Hole Diameter Driling Method Sampling Method Surf. S 9 9 9 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Anima- Services LUC 22 East Connacted St 27 EAST Connacted St 27 EAST Connacted St 27 EAST Connacted St 27 EAST PIPELINE RELEASE Date Started 27 EAST Date Completed 23 20172 Date Completed 23 201722 Date Completed 23 20172 Date Completed 23 201722 Dat	Structure Structure SB-5 ITEMPRISE PRODUCTS COMPANY TERAL K.ST PRODUCTS COMPANY TERAL K.ST PIELINE RELEASE O ARRIBA COUNTY, NEW MEXCO VIV. SW14. SECTION 16, T28 N, RW Date Stanted 2.3 Complete Date Complete 2.3 Complete Date Complete 2.3 Complete Sampling Method 2.3 Mit 12 2.3 Complete 2.3 Complete Sampling Method Latitude 2.3 Complete 2.3 Complete Sampling Method 2.3 Mit 12 2.3 Complete 2.3 Complete

Al	ES	K	Animas Environmental Services, LLC. 624 East Comanche St. Farmington, NM 87401			SB-6				
EN L/ RIG SE1	ITERPRI ATERAL O ARRIE 1/4, SW1	ISE PROI . K-31 PIF 3A COUN /4, SECT	DUCTS COMPANY PELINE RELEASE ITY, NEW MEXICO ION 16, T25N, R6W	Date Started Date Completed Hole Diameter Drilling Method Sampling Method	: 3/16/12 : 3/16/12 : 2-inch : Direct Push : Split Spoon	Latitude Longitude Survey By Logged By	: N36.39385 : W107.47484 : Google Earth : T. Long			
Depth in Feet	Surf. Elev. 0	uscs	GRAPHIC		DESCRIPTION					
0	- 0	sw	Sand, Fine	e, Light Brown, Dry, I	Light Brown, Dry, No Odor, No Staining					
2	2	SC	Sandy Cla	ay, Black, Moist, Sligh	38.1					
4	4	SC	Sandy Cla	iy, Brown, Moist, Slig	21.4					
6	6	SC	Clayey Sa	nd, Fine, Brown, Slig	I, Fine, Brown, Slight Odor, Slight Staining					
8	8		Sandy Cla	ay, Grey/Brown, Mois	t, Slight Odor, Slight Stair	ning	15.3			
10	10	50	Sand Fax	Crow Wat			17.7			
12	12	SW	Sandy Cla	e, Grey, wet	14.8					
14	14	sw	Sand, Fine	e, Brown, Wet, No O	Brown, Wet, No Odor, No Staining					
16-										

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Af	ES	Ç	624 East Co Farmington	nimas ronmental ices, LLC. omanche St. n. NM 87401			SB-7		
EN L/ RIG SE1	ATERPRI ATERAL O ARRIE 1/4, SW1	ISE PRO K-31 PII BA COUN /4, SECT	DUCTS COM PELINE REL NTY, NEW M FION 16, T25	MPANY EASE EXICO IN, R6W	Date Started Date Completed Hole Diameter Drilling Method Sampling Method	: 3/16/12 : 3/16/12 : 2-inch : Direct Push : Split Spoon	Latitude Longitude Survey By Logged By	: N36.39399 : W107.47489 : Google Earth : T. Long	
Depth in Feet	Surf. Elev. 0	uscs	GRAPHIC			DESCRIPTION		DIA Count (mdd)	
0	0	sw		Sand, Fine	ə, Brown, No Odor, N	lo Staining		8.9	
2	-2			Sandy Cla	y, Brown, Moist, Slig	ht Odor, Slight Staining	1	32.7	
4	-4							40.3	
6	-6	SC						19.7	
8	-8							11.2	
10	10	SC		Clayey Sar	nd, Fine, Grey/Black	, Moist, Slight Odor, He	eavy Staining	16.1	
12	12			Clayey Sar	nd, Fine, Grey/Black	, Wet, Slight Odor, Hea	vy Staining	12.7	
14	14	SC						20.5	
16-				E ant		28 - 12 - 12 - 12 - 12 - 12 - 12 - 12 -			

Al	ES	S Commental Services, LLC, 624 East Comanche St. Farmington, NM 87401							
EN LI RIG SE1	ITERPRI ATERAL O ARRIE 1/4, SW1	ISE PRO . K-31 PII 3A COUN /4, SECT	DUCTS COMPANY PELINE RELEASE NTY, NEW MEXICO FION 16, T25N, R6W	Date Started Date Completed Hole Diameter Drilling Method Sampling Method	: 3/16/12 : 3/16/12 : 2-inch : Direct Push : Split Spoon	Latitude Longitude Survey By Logged By	: N36.39373 : W107.47479 : Google Earth : T. Long		
Depth in Feet	Surf. Elev. 0	uscs	GRAPHIC		DESCRIPTION				
0	- 0	SW	Sand, Fine	e, Brown, Dry, No Oo	Brown, Dry, No Odor, No Staining				
2	2		No Recove	ery					
4-	4 6		Sandy Cla	y, Brown, Moist, No	Odor, No Staining		39.1		
8 1 1	8	SC							
10	10		Sandy Cla	y, Black, Moist, Sligi	nt Odor, Heavy Staining		32.3		
12-	12	SC	Clavey Sa	nd Fine Black Mois	st Slight Odor, Heavy Sta	aining	31.9		
		SC					19.4		
14	14	sw	Sand, Fine	e, Brown, Wet, No O	dor, No Staining		17.3		
16-									

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A	ES	5	624 East C Farmingto	nimas ronmental ices, LLC. omanche St. n, NM 87401						
EN L RI SE1	NTERPR ATERAL O ARRIE 1/4, SW1	ISE PRO . K-31 PI 3A COUM /4, SEC	DUCTS COI PELINE REL NTY, NEW M TION 16, T25	MPANY EASE EXICO 5N, R6W	Date Started Date Completed Hole Diameter Drilling Method Sampling Method	Date Started : 3/16/12 Latitude Date Completed : 3/16/12 Longitude Hole Diameter : 2-inch Survey By Drilling Method : Direct Push Logged By Sampling Method : Split Spoon				
Depth in Feet	Surf. Elev. 0	uscs	GRAPHIC			DESCRIPTION		Blow Count (mdd)		
0-	0	sw		Sand, Fine	, Brown, Dry, No Oc		2,679			
2-	-2			Sandy Cla	y, Grey, Moist, Sligh	t Odor, Slight Staining		2,310		
4-	-4	SC						3,061		
8	8							1,508		
10	10	SC		Sandy Clay	/, Brown, Moist, Slig	ht Odor, Slight Staining		3,519		
12	12			No Recove	ry			1,478		
	-14	80		Clayey Sar	id, Fine, Black, Sligh	nt Odor, Heavy Staining		798		
14	-14	30						128		

A	ES	Y	624 East Co Farmington	onmental ices, LLC. omanche St. a, NM 87401				
EN L/ RIC SE1	ITERPRI ATERAL O ARRIE 1/4, SW1	SE PROI K-31 PIF BA COUN /4, SECT	DUCTS COM PELINE REL ITY, NEW M TON 16, T25	MPANY EASE EXICO N, R6W	Date Started Date Completed Hole Diameter Drilling Method Sampling Method	: 3/16/12 : 3/16/12 : 2-inch : Direct Push : Split Spoon	Latitude Longitude Survey By Logged By	: N36.39359 : W107.47495 : Google Earth : T. Long
Depth in Feet	Surf. Elev. 0	uscs	GRAPHIC			DESCRIPTION		Blow Count (mdd)
0	- 0	sw		Sand, Fine	, Brown, Dry, No Oo	dor, No Staining		202
2	2	sw		Sand, Fine	, Brown, Dry, No O	dor, Grey Staining		211
4	4			Sandy Cla	y, Black, Moist, Slig	ht Odor, Heavy Staining	,	29.2
6	6							38.2
8	8	SC						47
10	10							48.6
12	12	sc		Sandy Cla	y, Brown, Wet, Sligh	nt Odor, Heavy Black St	aining	25.9
14	14	sw		Sand, Fine	e, Brown, Wet, No O	dor		19.1
16					a States			

ENTI LAI RIO SE1/4 Depth in Feet	ERPRIS TERAL ARRIB 4, SW1/	SE PRO K-31 PII A COUN 4, SECT	DUCTS COM PELINE REL NTY, NEW M	MPANY		SB-11				
Depth in Feet			TION 16, T25	EASE EXICO N, R6W	Date Started Date Completed Hole Diameter Drilling Method Sampling Method	: 3/16/12 : 3/16/12 : 2-inch : Direct Push : Split Spoon	Latitude Longitude Survey By Logged By	: N36.39375 : W107.47514 : Google Earth : T. Long		
	Surf. Elev. 0	USCS	GRAPHIC			DESCRIPTION		BIOM (ppm)		
0-1	0 -	SP		Sand, Fine	, Brown, Dry, No Od	7.4				
2	-2 -	sw		Sand, Fine	, Brown, Dry, Slight	Odor, Slight Grey Stainir	ng	213		
4	-4 -			Sandy Clay	y, Brown, Moist, Slig	ht Odor, Heavy Staining		56.8		
6	-6	SC						33.2		
8	-6									
	-10	SP		Sand, Fine	, Odor, Heavy Staini	ing		3,210		
12	-12 -			Clayey Sar	nd, Grey/Black, Wet,	Slight Odor, Heavy Stai	ning	110.3		
14	-14	SC						23.7		

j



05-21-2012 S: Animas 2000/2012 Projects/Enterprise/Lateral K-31/Soil Boring Logs/SB-12.bor



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

March 28, 2012

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

RE: Enterprise K-31

OrderNo.: 1203644

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory received 36 sample(s) on 3/17/2012 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 <u>www.hallenvironmental.com</u> 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 1203644

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/28/2012

B

CLIENT:	Animas Environmental Service	vices	C	Client Sample ID: SB-1 @ 10'				
Project:	Enterprise K-31				Collection D	ate: 3/15/2	012 1:45:00 PM	
Lab ID:	1203644-001	Matrix:	Matrix: SOIL			ate: 3/17/2	012 10:30:00 AM	
Analyses		Result	RL O	Qual	Units	DF	Date Analyzed	
EPA MET	THOD 8015B: DIESEL RANG	SE ORGANICS	61.60			1.2.2	Analyst: JM	
Diesel R	ange Organics (DRO)	89	9.6		mg/Kg	1	3/20/2012 4:22:22 PM	
Surr:	DNOP	87.5	77.4-131		%REC	1	3/20/2012 4:22:22 PM	
EPA MET	THOD 8015B: GASOLINE RA	ANGE					Analyst: NSE	
Gasoline	e Range Organics (GRO)	190	49		mg/Kg	10	3/23/2012 3:01:56 PM	
Surr:	BFB	185	69.7-121	S	%REC	10	3/23/2012 3:01:56 PM	
EPA MET	THOD 8021B: VOLATILES						Analyst: NSE	
Benzene		ND	0.49		mg/Kg	10	3/22/2012 1:59:33 PM	
Toluene		ND	0.49		mg/Kg	10	3/22/2012 1:59:33 PM	
Ethylben	izene	0.73	0.49		mg/Kg	10	3/22/2012 1:59:33 PM	
Xylenes,	Total	4.9	0.97		mg/Kg	10	3/22/2012 1:59:33 PM	
Surr:	4-Bromofluorobenzene	102	80-120		%REC	10	3/22/2012 1:59:33 PM	

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

- Analyte detected below quantitation limits J
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- в Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit ND
- RL **Reporting Detection Limit**

Page 1 of 44

Analytical Report Lab Order 1203644 Date Reported: 3/28/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Enterprise K-31

Client Sample ID: SB-1 @ 14' Collection Date: 3/15/2012 1:48:00 PM

Lab ID: 1203644-002	Matrix:	SOIL	Received D	Received Date: 3/17/2012 10:30:00 AM		
Analyses	Result	RL Qua	l Units	DF	Date Analyzed	
EPA METHOD 8015B: DIESEL RANGE	ORGANICS		Sec. Sec. 1		Analyst: JMP	
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	3/20/2012 4:43:58 PM	
Surr: DNOP	80.6	77.4-131	%REC	1	3/20/2012 4:43:58 PM	
EPA METHOD 8015B: GASOLINE RAI	NGE				Analyst: NSB	
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	3/21/2012 2:14:29 AM	
Surr: BFB	94.0	69.7-121	%REC	1	3/21/2012 2:14:29 AM	
EPA METHOD 8021B: VOLATILES					Analyst: NSB	
Benzene	ND	0.046	mg/Kg	1	3/21/2012 2:14:29 AM	
Toluene	ND	0.046	mg/Kg	1	3/21/2012 2:14:29 AM	
Ethylbenzene	ND	0.046	mg/Kg	1	3/21/2012 2:14:29 AM	
Xylenes, Total	ND	0.092	mg/Kg	1	3/21/2012 2:14:29 AM	
Surr: 4-Bromofluorobenzene	97.0	80-120	%REC	1	3/21/2012 2:14:29 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

Analytical Report Lab Order 1203644 Date Reported: 3/28/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Serv	ices		Client Sample	ID: SB-2 (@ 2-4'
Project: Enterprise K-31			Collection D	ate: 3/15/2	012 2:25:00 PM
Lab ID: 1203644-003	Matrix:	SOIL	Received D	ate: 3/17/2	012 10:30:00 AM
Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS		and the second	1.0.0	Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/20/2012 5:05:26 PM
Surr: DNOP	83.0	77.4-131	%REC	1	3/20/2012 5:05:26 PM
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: NSB
Gasoline Range Organics (GRO)	5.3	4.9	mg/Kg	1	3/21/2012 2:43:12 AM
Surr: BFB	102	69.7-121	%REC	1	3/21/2012 2:43:12 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	0.070	0.049	mg/Kg	1	3/21/2012 2:43:12 AM
Toluene	0.10	0.049	mg/Kg	1	3/21/2012 2:43:12 AM
Ethylbenzene	0.054	0.049	mg/Kg	1	3/21/2012 2:43:12 AM
Xylenes, Total	0.49	0.099	mg/Kg	1	3/21/2012 2:43:12 AM
Surr: 4-Bromofluorobenzene	98.8	80-120	%REC	1	3/21/2012 2:43:12 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

Page 3 of 44
Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Enterprise K-31

1203644-004

Project:

Lab ID:

Date Reported: 3/28/2012 Client Sample ID: SB-2 @ 12' Collection Date: 3/15/2012 2:34:00 PM

Received Date: 3/17/2012 10:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE ORGANICS	R. 4. 4.	10 al anti-	0-35-0	Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/20/2012 5:48:10 PM
Surr: DNOP	83.0	77.4-131	%REC	1	3/20/2012 5:48:10 PM
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/23/2012 3:30:43 PM
Surr: BFB	115	69.7-121	%REC	1	3/23/2012 3:30:43 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.049	mg/Kg	1	3/22/2012 2:57:13 PM
Toluene	ND	0.049	mg/Kg	1	3/22/2012 2:57:13 PM
Ethylbenzene	ND	0.049	mg/Kg	1	3/22/2012 2:57:13 PM
Xylenes, Total	ND	0.098	mg/Kg	1	3/22/2012 2:57:13 PM
Surr: 4-Bromofluorobenzene	94.3	80-120	%REC	1	3/22/2012 2:57:13 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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Servi	ces		Client Sample ID: SB-3 @ 12'					
Project: Enterprise K-31			Collection D	ate: 3/15/2	012 3:12:00 PM			
Lab ID: 1203644-005	Matrix:	Matrix: SOIL		ate: 3/17/2	012 10:30:00 AM			
Analyses	Result	RL Qu	al Units	DF	Date Analyzed			
EPA METHOD 8015B: DIESEL RANGE	ORGANICS		100 340	10	Analyst: JMP			
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/20/2012 6:09:37 PM			
Surr: DNOP	80.5	77.4-131	%REC	1	3/20/2012 6:09:37 PM			
EPA METHOD 8015B: GASOLINE RAI	NGE				Analyst: NSB			
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/23/2012 3:59:36 PM			
Surr: BFB	101	69.7-121	%REC	1	3/23/2012 3:59:36 PM			
EPA METHOD 8021B: VOLATILES					Analyst: NSB			
Benzene	ND	0.049	mg/Kg	1	3/22/2012 3:26:01 PM			
Toluene	ND	0.049	mg/Kg	1	3/22/2012 3:26:01 PM			
Ethylbenzene	ND	0.049	mg/Kg	1	3/22/2012 3:26:01 PM			
Xylenes, Total	ND	0.099	mg/Kg	1	3/22/2012 3:26:01 PM			
Surr: 4-Bromofluorobenzene	95.1	80-120	%REC	1	3/22/2012 3:26:01 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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Surr: 4-Bromofluorobenzene

Date Reported: 3/28/2012 Client Sample ID: SB-3 @ 14' Collection Date: 3/15/2012 3:14:00 PM

1

3/22/2012 3:54:47 PM

Project: Enterprise K-31 1203644-006 Lab ID: Matrix: SOIL Received Date: 3/17/2012 10:30:00 AM Analyses Result **RL** Qual Units DF **Date Analyzed** EPA METHOD 8015B: DIESEL RANGE ORGANICS Analyst: JMP Diesel Range Organics (DRO) ND 10 1 3/21/2012 7:21:49 AM mg/Kg Surr: DNOP 78.8 77.4-131 %REC 1 3/21/2012 7:21:49 AM **EPA METHOD 8015B: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 4.8 mg/Kg 1 3/23/2012 4:28:26 PM Surr: BFB 95.9 69.7-121 %REC 1 3/23/2012 4:28:26 PM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.048 mg/Kg 1 3/22/2012 3:54:47 PM 3/22/2012 3:54:47 PM Toluene ND 0.048 mg/Kg 1 Ethylbenzene ND 0.048 mg/Kg 1 3/22/2012 3:54:47 PM Xylenes, Total ND 0.096 mg/Kg 1 3/22/2012 3:54:47 PM

80-120

%REC

94.4

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

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

RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Servio	ces	Client Sample ID: SB-4 @ 4'							
Project: Enterprise K-31		Collection Date: 3/15/2012 3:46:00 PM							
Lab ID: 1203644-007	Matrix:	SOIL	Received D	ate: 3/17/2	012 10:30:00 AM				
Analyses	Result	RL Qua	l Units	DF	Date Analyzed				
EPA METHOD 8015B: DIESEL RANGE	ORGANICS	1000	an in solid		Analyst: JMP				
Diesel Range Organics (DRO)	20	9.7	mg/Kg	1	3/21/2012 8:26:54 AM				
Surr: DNOP	86.9	77.4-131	%REC	1	3/21/2012 8:26:54 AM				
EPA METHOD 8015B: GASOLINE RAM	NGE				Analyst: NSB				
Gasoline Range Organics (GRO)	10	5.0	mg/Kg	1	3/21/2012 4:38:18 AM				
Surr: BFB	116	69.7-121	%REC	1	3/21/2012 4:38:18 AM				
EPA METHOD 8021B: VOLATILES					Analyst: NSB				
Benzene	0.11	0.050	mg/Kg	1	3/21/2012 4:38:18 AM				
Toluene	0.55	0.050	mg/Kg	1	3/21/2012 4:38:18 AM				
Ethylbenzene	0.16	0.050	mg/Kg	1	3/21/2012 4:38:18 AM				
Xylenes, Total	1.6	0.10	mg/Kg	1	3/21/2012 4:38:18 AM				
Surr: 4-Bromofluorobenzene	99.9	80-120	%REC	1	3/21/2012 4:38:18 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

Page 7 of 44

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Enterprise K-31

Client Sample ID: SB-4 @ 14' Collection Date: 3/15/2012 3:47:00 PM

Lab ID: 1203644-008	Matrix:	Matrix: SOIL		Received Date: 3/17/2012 10:30:00 A			
Analyses	Result	RL Qual	Units	DF	Date Analyzed		
EPA METHOD 8015B: DIESEL RANGE	ORGANICS			1.1	Analyst: JMP		
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	3/21/2012 8:48:31 AM		
Surr: DNOP	84.2	77.4-131	%REC	1	3/21/2012 8:48:31 AM		
EPA METHOD 8015B: GASOLINE RAM	NGE				Analyst: NSB		
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/23/2012 4:57:12 PM		
Surr: BFB	96.0	69.7-121	%REC	1	3/23/2012 4:57:12 PM		
EPA METHOD 8021B: VOLATILES					Analyst: NSB		
Benzene	ND	0.048	mg/Kg	1	3/22/2012 4:23:35 PM		
Toluene	ND	0.048	mg/Kg	1	3/22/2012 4:23:35 PM		
Ethylbenzene	ND	0.048	mg/Kg	1	3/22/2012 4:23:35 PM		
Xylenes, Total	ND	0.097	mg/Kg	1	3/22/2012 4:23:35 PM		
Surr: 4-Bromofluorobenzene	94.6	80-120	%REC	1	3/22/2012 4:23:35 PM		

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

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

Page 8 of 44

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental ServicesProject: Enterprise K-31Lab ID: 1203644-009	Matrix:	Client Sample ID: SB-1 Collection Date: 3/15/2012 2:00:00 PM Matrix: AQUEOUS Received Date: 3/17/2012 10:30:00 AM						
Analyses	Result	RL Qual	Units	DF	Date Analyzed			
EPA METHOD 8021B: VOLATILES			1111	3 400	Analyst: NSB			
Benzene	28	2.0	µg/L	2	3/23/2012 2:14:08 PM			
Toluene	ND	2.0	µg/L	2	3/23/2012 2:14:08 PM			
Ethylbenzene	2.0	2.0	µg/L	2	3/23/2012 2:14:08 PM			
Xylenes, Total	ND	4.0	µg/L	2	3/23/2012 2:14:08 PM			
Surr: 4-Bromofluorobenzene	88.2	55-140	%REC	2	3/23/2012 2:14:08 PM			

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 9 of 44

Analytical Report	
Lab Order 1203644	

Date Reported: 3/28/2012

3/22/2012 3:45:51 PM

CLIENT: Animas Environmental Services **Client Sample ID: SB-2** Enterprise K-31 Collection Date: 3/15/2012 2:42:00 PM **Project:** Lab ID: 1203644-010 Matrix: AQUEOUS Received Date: 3/17/2012 10:30:00 AM Result Analyses **RL** Qual Units DF **Date Analyzed EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene 46 2.0 µg/L 2 3/22/2012 3:45:51 PM Toluene 5.9 2.0 µg/L 2 3/22/2012 3:45:51 PM Ethylbenzene ND 2.0 2 3/22/2012 3:45:51 PM µg/L Xylenes, Total ND 2 4.0 µg/L 3/22/2012 3:45:51 PM

55-140

%REC

2

79.6

Hall Environmental Analysis Laboratory, Inc.

Surr: 4-Bromofluorobenzene

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

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

RL Reporting Detection Limit

Page 10 of 44

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Project: Lab ID:	Animas Environmental Services Enterprise K-31 1203644-011	Matrix:	AQUEOUS	Client Sample Collection D Received D	e ID: SB-3 Date: 3/15/2 Date: 3/17/2	012 3:25:00 PM 012 10:30:00 AM
Analyses		Result	RL Qual	Units	DF	Date Analyzed
EPA MET	HOD 8021B: VOLATILES				The Part	Analyst: NSB
Benzene		1,100	20	µg/L	20	3/23/2012 4:15:20 PM
Toluene		300	20	µg/L	20	3/23/2012 4:15:20 PM
Ethylben	zene	ND	20	µg/L	20	3/23/2012 4:15:20 PM
Xylenes,	Total	75	40	µg/L	20	3/23/2012 4:15:20 PM
Surr: 4	-Bromofluorobenzene	94.5	55-140	%REC	20	3/23/2012 4:15:20 PM

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 11 of 44

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/28/2012

CLIENT: AI	nimas Environmental Services	Client Sample ID: SB-4							
Project: Er	nterprise K-31			Collection D	ate: 3/15/2	012 4:00:00 PM			
Lab ID: 12	203644-012	Matrix: AQUEOUS Received I			ate: 3/17/2012 10:30:00 AM				
Analyses	and the second second second	Result	RL Qual	Units	DF	Date Analyzed			
EPA METHO	DD 8021B: VOLATILES			1.1.1.1.1.1	all have	Analyst: NSB			
Benzene		130	5.0	µg/L	5	3/23/2012 4:45:24 PM			
Toluene		17	5.0	µg/L	5	3/23/2012 4:45:24 PM			
Ethylbenzen	e	ND	5.0	µg/L	5	3/23/2012 4:45:24 PM			
Xylenes, Tot	tal	ND	10	µg/L	5	3/23/2012 4:45:24 PM			
Surr: 4-Br	romofluorobenzene	77.4	55-140	%REC	5	3/23/2012 4:45:24 PM			

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Service	ces		Client Sample	ID: SB-5 (@ 4'
Project: Enterprise K-31			Collection D	ate: 3/16/2	012 8:59:00 AM
Lab ID: 1203644-013	Matrix:	Matrix: SOIL		ate: 3/17/2	012 10:30:00 AM
Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE	ORGANICS			1. 10.11.	Analyst: JMP
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	3/21/2012 9:10:21 AM
Surr: DNOP	81.9	77.4-131	%REC	1	3/21/2012 9:10:21 AM
EPA METHOD 8015B: GASOLINE RAM	IGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/23/2012 10:42:01 PM
Surr: BFB	98.3	69.7-121	%REC	1	3/23/2012 10:42:01 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.048	mg/Kg	1	3/22/2012 4:52:18 PM
Toluene	ND	0.048	mg/Kg	1	3/22/2012 4:52:18 PM
Ethylbenzene	ND	0.048	mg/Kg	1	3/22/2012 4:52:18 PM
Xylenes, Total	0.24	0.096	mg/Kg	1	3/22/2012 4:52:18 PM
Surr: 4-Bromofluorobenzene	95.2	80-120	%REC	1	3/22/2012 4:52:18 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

Page 13 of 44

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Enterprise K-31

Client Sample ID: SB-5 @ 14' Collection Date: 3/16/2012 9:06:00 AM

Lab ID: 1203644-014	Matrix:	Matrix: SOIL		Received Date: 3/17/2012 10:30:00 AM			
Analyses	Result	RL Qua	al Units	DF	Date Analyzed		
EPA METHOD 8015B: DIESEL RANG	E ORGANICS	Martin Party	P. Balance	Magaine	Analyst: JMP		
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	3/21/2012 9:32:02 AM		
Surr: DNOP	82.1	77.4-131	%REC	1	3/21/2012 9:32:02 AM		
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: NSB		
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/23/2012 11:10:50 PM		
Surr: BFB	95.2	69.7-121	%REC	1	3/23/2012 11:10:50 PM		
EPA METHOD 8021B: VOLATILES					Analyst: NSB		
Benzene	ND	0.048	mg/Kg	1	3/22/2012 5:20:59 PM		
Toluene	ND	0.048	mg/Kg	1	3/22/2012 5:20:59 PM		
Ethylbenzene	ND	0.048	mg/Kg	1	3/22/2012 5:20:59 PM		
Xylenes, Total	ND	0.095	mg/Kg	1	3/22/2012 5:20:59 PM		
Surr: 4-Bromofluorobenzene	97.4	80-120	%REC	1	3/22/2012 5:20:59 PM		

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 14 of 44

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Service	ces		Client Sample ID: SB-6 @ 2'					
Project: Enterprise K-31		Collection Date: 3/16/2012 9:40:00 A						
Lab ID: 1203644-015	Matrix:	SOIL	Received D	ate: 3/17/2	012 10:30:00 AM			
Analyses	Result	RL Q	ual Units	DF	Date Analyzed			
EPA METHOD 8015B: DIESEL RANGE	ORGANICS			No. IN CO.	Analyst: JMP			
Diesel Range Organics (DRO)	77	10	mg/Kg	1	3/21/2012 9:53:48 AM			
Surr: DNOP	91.8	77.4-131	%REC	1	3/21/2012 9:53:48 AM			
EPA METHOD 8015B: GASOLINE RAM	IGE				Analyst: NSB			
Gasoline Range Organics (GRO)	11	9.7	mg/Kg	2	3/23/2012 11:39:35 PM			
Surr: BFB	117	69.7-121	%REC	2	3/23/2012 11:39:35 PM			
EPA METHOD 8021B: VOLATILES					Analyst: NSB			
Benzene	ND	0.097	mg/Kg	2	3/22/2012 5:49:49 PM			
Toluene	ND	0.097	mg/Kg	2	3/22/2012 5:49:49 PM			
Ethylbenzene	ND	0.097	mg/Kg	2	3/22/2012 5:49:49 PM			
Xylenes, Total	0.31	0.19	mg/Kg	2	3/22/2012 5:49:49 PM			
Surr: 4-Bromofluorobenzene	97.6	80-120	%REC	2	3/22/2012 5:49:49 PM			

Qualifiers:

Value exceeds Maximum Contaminant Level. */X

Е Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits в Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded Н

Not Detected at the Reporting Limit ND

Reporting Detection Limit RL

Page 15 of 44

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/28/2012

CLIENT:	Animas Environmental Services			(lient Samp	le ID: SB-6 @) 14'
Project:	Enterprise K-31				Collection	Date: 3/16/20	12 9:48:00 AM
Lab ID:	1203644-016	Matrix:	SOIL		Received	Date: 3/17/20	12 10:30:00 AM
Analyses		Result	RI	Qual	Units	DF	Date Analyzed

EPA METHOD 8015B: DIESEL RANGE O	RGANICS		Sec. 1		Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/21/2012 10:37:24 AM
Surr: DNOP	85.4	77.4-131	%REC	1	3/21/2012 10:37:24 AM
EPA METHOD 8015B: GASOLINE RANGE	1.11				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/24/2012 12:08:23 AM
Surr: BFB	99.0	69.7-121	%REC	1	3/24/2012 12:08:23 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.049	mg/Kg	1	3/22/2012 6:47:28 PM
Toluene	ND	0.049	mg/Kg	1	3/22/2012 6:47:28 PM
Ethylbenzene	ND	0.049	mg/Kg	1	3/22/2012 6:47:28 PM
Xylenes, Total	ND	0.097	mg/Kg	1	3/22/2012 6:47:28 PM
Surr: 4-Bromofluorobenzene	94.4	80-120	%REC	1	3/22/2012 6:47:28 PM

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S 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
- RL **Reporting Detection Limit**

Page 16 of 44

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Servi	ces		Client Sample	Client Sample ID: SB-7 @ 6'			
Project: Enterprise K-31			Collection D	ate: 3/16/2	012 10:16:00 AM		
Lab ID: 1203644-017	Matrix:	SOIL	Received D	Received Date: 3/17/2012 10:30:00 AM			
Analyses	Result	RL Qu	al Units	DF	Date Analyzed		
EPA METHOD 8015B: DIESEL RANGE	ORGANICS				Analyst: JMP		
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/21/2012 10:58:46 AM		
Surr: DNOP	95.8	77.4-131	%REC	1	3/21/2012 10:58:46 AM		
EPA METHOD 8015B: GASOLINE RAI	NGE				Analyst: NSB		
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/24/2012 12:37:09 AM		
Surr: BFB	96.9	69.7-121	%REC	1	3/24/2012 12:37:09 AM		
EPA METHOD 8021B: VOLATILES					Analyst: NSB		
Benzene	ND	0.047	mg/Kg	1	3/22/2012 7:16:15 PM		
Toluene	ND	0.047	mg/Kg	1	3/22/2012 7:16:15 PM		
Ethylbenzene	ND	0.047	mg/Kg	1	3/22/2012 7:16:15 PM		
Xylenes, Total	ND	0.095	mg/Kg	1	3/22/2012 7:16:15 PM		
Surr: 4-Bromofluorobenzene	96.2	80-120	%REC	1	3/22/2012 7:16:15 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

Page 17 of 44

Hall Environmental Analysis Laboratory, Inc.

FDA MET	UOD MALED, DIEGEL DANIOS OF					The second	Analyst
Analyses	a la s-helie his - sta	Result	RL	Qual	Units	DF	Date Analyzed
Lab ID:	1203644-018	Matrix:	SOIL		Received	Date: 3/17/20	012 10:30:00 AM
Project:	Enterprise K-31				Collection	Date: 3/16/20	012 10:22:00 AM
CLIENT:	Animas Environmental Services			C	lient Samp	le ID: SB-7 (a) 14'

EPA METHOD 8015B: DIESEL RANGE	E ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	3/21/2012 11:20:33 AM
Surr: DNOP	93.6	77.4-131	%REC	1	3/21/2012 11:20:33 AM
EPA METHOD 8015B: GASOLINE RAI	NGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/24/2012 1:05:53 AM
Surr: BFB	96.0	69.7-121	%REC	1	3/24/2012 1:05:53 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.049	mg/Kg	1	3/23/2012 1:01:13 AM
Toluene	ND	0.049	mg/Kg	1	3/23/2012 1:01:13 AM
Ethylbenzene	ND	0.049	mg/Kg	1	3/23/2012 1:01:13 AM
Xylenes, Total	ND	0.098	mg/Kg	1	3/23/2012 1:01:13 AM
Surr: 4-Bromofluorobenzene	96.1	80-120	%REC	1	3/23/2012 1:01:13 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

Page 18 of 44

50

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Project: Enterprise K-31

Lab ID: 1203644-019

Client Sample ID: SB-8 @ 4' Collection Date: 3/16/2012 10:48:00 AM Received Date: 3/17/2012 10:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE ORGANICS		3. p. 191-1	T. Marson	Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/21/2012 11:42:03 AM
Surr: DNOP	92.6	77.4-131	%REC	1	3/21/2012 11:42:03 AM
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/24/2012 1:34:36 AM
Surr: BFB	109	69.7-121	%REC	1	3/24/2012 1:34:36 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.050	mg/Kg	1	3/23/2012 1:29:55 AM
Toluene	ND	0.050	mg/Kg	1	3/23/2012 1:29:55 AM
Ethylbenzene	ND	0.050	mg/Kg	1	3/23/2012 1:29:55 AM
Xylenes, Total	0.20	0.099	mg/Kg	1	3/23/2012 1:29:55 AM
Surr: 4-Bromofluorobenzene	96.8	80-120	%REC	1	3/23/2012 1:29:55 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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Enterprise K-31

1203644-020

Project:

Lab ID:

Date Reported: 3/28/2012 Client Sample ID: SB-8 @ 14' Collection Date: 3/16/2012 10:57:00 AM

Received Date: 3/17/2012 10:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN	GE ORGANICS	1. 1 M. S.	T. S. Land (1)	Same Pla	Analyst: JMP
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	3/21/2012 12:03:31 PM
Surr: DNOP	93.0	77.4-131	%REC	1	3/21/2012 12:03:31 PM
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/24/2012 2:03:16 AM
Surr: BFB	100	69.7-121	%REC	1	3/24/2012 2:03:16 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.047	mg/Kg	1	3/23/2012 1:58:43 AM
Toluene	ND	0.047	mg/Kg	1	3/23/2012 1:58:43 AM
Ethylbenzene	ND	0.047	mg/Kg	1	3/23/2012 1:58:43 AM
Xylenes, Total	0.098	0.093	mg/Kg	1	3/23/2012 1:58:43 AM
Surr: 4-Bromofluorobenzene	97.3	80-120	%REC	1	3/23/2012 1:58:43 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

Page 20 of 44

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Servi	ces	Client Sample ID: SB-9 @ 10'					
Project: Enterprise K-31				Collection D	ate: 3/16/2	012 11:32:00 AM	
Lab ID: 1203644-021	Matrix:	SOIL		Received D	Received Date: 3/17/2012 10:30:00 AM		
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	
EPA METHOD 8015B: DIESEL RANGE	ORGANICS			tory little	article 1	Analyst: JMP	
Diesel Range Organics (DRO)	250	100		mg/Kg	10	3/21/2012 6:58:42 PM	
Surr: DNOP	0	77.4-131	S	%REC	10	3/21/2012 6:58:42 PM	
EPA METHOD 8015B: GASOLINE RA	NGE					Analyst: NSB	
Gasoline Range Organics (GRO)	190	48		mg/Kg	10	3/24/2012 2:31:59 AM	
Surr: BFB	129	69.7-121	S	%REC	10	3/24/2012 2:31:59 AM	
EPA METHOD 8021B: VOLATILES						Analyst: NSB	
Benzene	0.51	0.24		mg/Kg	5	3/23/2012 2:27:31 AM	
Toluene	9.4	0.24		mg/Kg	5	3/23/2012 2:27:31 AM	
Ethylbenzene	1.9	0.24		mg/Kg	5	3/23/2012 2:27:31 AM	
Xylenes, Total	19	0.48		mg/Kg	5	3/23/2012 2:27:31 AM	
Surr: 4-Bromofluorobenzene	106	80-120		%REC	5	3/23/2012 2:27:31 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

Page 21 of 44

Hall Environmental Analysis Laboratory, Inc.

Surr: 4-Bromofluorobenzene

CLIENT: Animas Environmental Servic Project: Enterprise K-31 Lab ID: 1203644-022	es Matrix:	SOIL	C	lient Sample Collection D Received D	e ID: SB-9 @ Date: 3/16/20 Date: 3/17/20	0 14' 012 11:33:00 AM 012 10:30:00 AM
Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE	ORGANICS			Contra .	16.4 B	Analyst: JMP
Diesel Range Organics (DRO)	2,000	100		mg/Kg	10	3/21/2012 6:33:36 PM
Surr: DNOP	0	77.4-131	S	%REC	10	3/21/2012 6:33:36 PM
EPA METHOD 8015B: GASOLINE RAN	IGE					Analyst: NSB
Gasoline Range Organics (GRO)	6,700	1,000		mg/Kg	200	3/24/2012 3:00:49 AM
Surr: BFB	142	69.7-121	S	%REC	200	3/24/2012 3:00:49 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	29	2.5		mg/Kg	50	3/23/2012 3:24:59 AM
Toluene	480	10		mg/Kg	200	3/24/2012 3:00:49 AM
Ethylbenzene	64	2.5		mg/Kg	50	3/23/2012 3:24:59 AM
Xylenes, Total	580	5.0		mg/Kg	50	3/23/2012 3:24:59 AM

80-120

%REC

50

3/23/2012 3:24:59 AM

119

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

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

RL Reporting Detection Limit

Page 22 of 44

Hall Environmental Analysis Laboratory, Inc.

 CLIENT: Animas Environmental Services
 Client Sample ID: SB-10 @ 4'

 Project: Enterprise K-31
 Collection Date: 3/16/2012 12:23:00 PM

 Lab ID: 1203644-023
 Matrix: SOIL

 Received Date: 3/17/2012 10:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed			
EPA METHOD 8015B: DIESEL RANGE ORGANICS Analyst:								
Diesel Range Organics (DRO)	32	10	mg/Kg	1	3/21/2012 1:46:12 PM			
Surr: DNOP	93.2	77.4-131	%REC	1	3/21/2012 1:46:12 PM			
EPA METHOD 8015B: GASOLINE RAN	IGE				Analyst: NSB			
Gasoline Range Organics (GRO)	5.8	4.7	mg/Kg	1	3/24/2012 3:29:37 AM			
Surr: BFB	117	69.7-121	%REC	1	3/24/2012 3:29:37 AM			
EPA METHOD 8021B: VOLATILES					Analyst: NSB			
Benzene	ND	0.047	mg/Kg	1	3/23/2012 4:22:26 AM			
Toluene	ND	0.047	mg/Kg	1	3/23/2012 4:22:26 AM			
Ethylbenzene	ND	0.047	mg/Kg	1	3/23/2012 4:22:26 AM			
Xylenes, Total	0.20	0.094	mg/Kg	1	3/23/2012 4:22:26 AM			
Surr: 4-Bromofluorobenzene	96.2	80-120	%REC	1	3/23/2012 4:22:26 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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Enterprise K-31

Project:

Date Reported: 3/28/2012 Client Sample ID: SB-10 @ 14' Collection Date: 3/16/2012 12:33:00 PM Received Date: 3/17/2012 10:30:00 AM

Lab ID: 1203644-024	Matrix: SOIL		Received D	Received Date: 3/17/2012 10:30:00 AM		
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	
EPA METHOD 8015B: DIESEL RANG	E ORGANICS		3.32.21-	1	Analyst: JMP	
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	3/21/2012 2:07:30 PM	
Surr: DNOP	96.5	77.4-131	%REC	1	3/21/2012 2:07:30 PM	
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: NSB	
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/25/2012 9:58:00 AM	
Surr: BFB	97.7	69.7-121	%REC	1	3/25/2012 9:58:00 AM	
EPA METHOD 8021B: VOLATILES					Analyst: NSB	
Benzene	ND	0.048	mg/Kg	1	3/23/2012 5:19:45 AM	
Toluene	ND	0.048	mg/Kg	1	3/23/2012 5:19:45 AM	
Ethylbenzene	ND	0.048	mg/Kg	1	3/23/2012 5:19:45 AM	
Xylenes, Total	ND	0.095	mg/Kg	1	3/23/2012 5:19:45 AM	
Surr: 4-Bromofluorobenzene	96.0	80-120	%REC	1	3/23/2012 5:19:45 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

Page 24 of 44

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Servic	es		C	lient Sample	e ID: SB-11	@ 10'
Project: Enterprise K-31				Collection D	Date: 3/16/2	012 1:03:00 PM
Lab ID: 1203644-025	Matrix:	SOIL		Received D	Date: 3/17/2	012 10:30:00 AM
Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE	ORGANICS			Y Ser and	State of	Analyst: JMI
Diesel Range Organics (DRO)	240	10		mg/Kg	1	3/21/2012 2:29:06 PM
Surr: DNOP	99.2	77.4-131		%REC	1	3/21/2012 2:29:06 PM
EPA METHOD 8015B: GASOLINE RAN	GE					Analyst: NSI
Gasoline Range Organics (GRO)	1,100	49	r	mg/Kg	10	3/23/2012 7:20:54 PM
Surr: BFB	444	69.7-121	S	%REC	10	3/23/2012 7:20:54 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSI
Benzene	0.67	0.49		mg/Kg	10	3/23/2012 7:20:54 PM
Toluene	14	0.49		mg/Kg	10	3/23/2012 7:20:54 PM
Ethylbenzene	10	0.49		mg/Kg	10	3/23/2012 7:20:54 PM
Xylenes, Total	83	0.99		mg/Kg	10	3/23/2012 7:20:54 PM
Surr: 4-Bromofluorobenzene	127	80-120	S	%REC	10	3/23/2012 7:20:54 PM

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

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

RL Reporting Detection Limit

Page 25 of 44

Hall Environmental Analysis Laboratory, Inc.

 CLIENT:
 Animas Environmental Services
 Client Sample ID: SB-11 @ 14'

 Project:
 Enterprise K-31
 Collection Date: 3/16/2012 1:07:00 PM

 Lab ID:
 1203644-026
 Matrix: SOIL
 Received Date: 3/17/2012 10:30:00 AM

 Analyses
 Result
 RL
 Qual
 Units
 DF
 Date Analyzed

EPA METHOD 8015B: DIESEL RANGE	ORGANICS			12. 21	Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/21/2012 2:50:36 PM
Surr: DNOP	91.4	77.4-131	%REC	1	3/21/2012 2:50:36 PM
EPA METHOD 8015B: GASOLINE RAN	NGE				Analyst: NSB
Gasoline Range Organics (GRO)	7.0	4.8	mg/Kg	1	3/25/2012 10:26:43 AM
Surr: BFB	113	69.7-121	%REC	1	3/25/2012 10:26:43 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.048	mg/Kg	1	3/23/2012 5:48:23 AM
Toluene	ND	0.048	mg/Kg	1	3/23/2012 5:48:23 AM
Ethylbenzene	ND	0.048	mg/Kg	1	3/23/2012 5:48:23 AM
Xylenes, Total	ND	0.095	mg/Kg	1	3/23/2012 5:48:23 AM
Surr: 4-Bromofluorobenzene	98.0	80-120	%REC	1	3/23/2012 5:48:23 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

Page 26 of 44

Date Reported: 3/28/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Enterprise K-31

1203644-027

Project:

Lab ID:

Client Sample ID: SB-12 @ 4' Collection Date: 3/16/2012 1:39:00 PM Received Date: 3/17/2012 10:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN	GE ORGANICS		and the second	1. 18.1	Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/21/2012 5:17:29 PM
Surr: DNOP	98.2	77.4-131	%REC	1	3/21/2012 5:17:29 PM
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/25/2012 10:55:27 AM
Surr: BFB	99.4	69.7-121	%REC	1	3/25/2012 10:55:27 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.048	mg/Kg	1	3/23/2012 7:49:44 PM
Toluene	ND	0.048	mg/Kg	1	3/23/2012 7:49:44 PM
Ethylbenzene	ND	0.048	mg/Kg	1	3/23/2012 7:49:44 PM
Xylenes, Total	ND	0.097	mg/Kg	1	3/23/2012 7:49:44 PM
Surr: 4-Bromofluorobenzene	99.7	80-120	%REC	1	3/23/2012 7:49:44 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

Page 27 of 44

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Enterprise K-31

1203644-028

Project:

Lab ID:

Date Reported: 3/28/2012 Client Sample ID: SB-12 @ 14' Collection Date: 3/16/2012 1:45:00 PM

 Collection Date: 3/16/2012 1:45:00 PM

 Matrix: SOIL
 Received Date: 3/17/2012 10:30:00 AM

Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE	ORGANICS			2.101	Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/21/2012 5:42:51 PM
Surr: DNOP	96.6	77.4-131	%REC	1	3/21/2012 5:42:51 PM
EPA METHOD 8015B: GASOLINE RAI	NGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/23/2012 8:18:29 PM
Surr: BFB	105	69.7-121	%REC	1	3/23/2012 8:18:29 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	0.070	0.048	mg/Kg	1	3/23/2012 8:18:29 PM
Toluene	ND	0.048	mg/Kg	1	3/23/2012 8:18:29 PM
Ethylbenzene	ND	0.048	mg/Kg	1	3/23/2012 8:18:29 PM
Xylenes, Total	ND	0.096	mg/Kg	1	3/23/2012 8:18:29 PM
Surr: 4-Bromofluorobenzene	99.3	80-120	%REC	1	3/23/2012 8:18:29 PM

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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

Page 28 of 44

Hall Environmental Analysis Laboratory, Inc.						Order 1203644 e Reported: 3/28/2012
CLIENT:	Animas Environmental Services	No. 20		Client Sampl	e ID: SB-5	
Project:	Enterprise K-31			Collection	Date: 3/16/20	012 9:25:00 AM
Lab ID:	1203644-029	Matrix:	AQUEOUS	Received	Date: 3/17/20	012 10:30:00 AM
Analyses		Result	RL Qual	Units	DF	Date Analyzed
EPA MET	HOD 8021B: VOLATILES		Server and the	1. 19 A.	a sector	Analyst: NSB
Benzene		5.8	2.0	µg/L	2	3/23/2012 2:44:26 PM
Toluene		2.5	2.0	µg/L	2	3/23/2012 2:44:26 PM
Ethylben	zene	ND	2.0	µg/L	2	3/23/2012 2:44:26 PM
Xylenes,	Total	ND	4.0	µg/L	2	3/23/2012 2:44:26 PM
Surr: 4	-Bromofluorobenzene	89.6	55-140	%REC	2	3/23/2012 2:44:26 PM

0	 -		
1 1119	110	**	•
Qua	 110	13	•

*/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

Analytical Report

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H Holding times for preparation or analysis exceeded

NDNot Detected at the Reporting LimitRLReporting Detection Limit

Page 29 of 44

Analytical Report	
Lab Order 1203644	

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1203644 Date Reported: 3/28/2012

CLIENT:	Animas Environmental Services		Client Sample ID: SB-6						
Project:	Enterprise K-31			Collection I	Date: 3/16/2	012 10:00:00 AM			
Lab ID:	1203644-030	Matrix:	AQUEOUS	Received Date: 3/17/2012 10:30:00 AM					
Analyses	- Sheleshely - Ver have	Result	RL Qual	Units	DF	Date Analyzed			
EPA MET	HOD 8021B: VOLATILES	a la compañía de la c	12.00	100.00		Analyst: NSB			
Benzene		1.2	1.0	µg/L	1	3/22/2012 5:46:26 PM			
Toluene		ND	1.0	µg/L	1	3/22/2012 5:46:26 PM			
Ethylben	zene	ND	1.0	µg/L	1	3/22/2012 5:46:26 PM			
Xylenes,	Total	ND	2.0	µg/L	1	3/22/2012 5:46:26 PM			
Surr: 4	1-Bromofluorobenzene	74.9	55-140	%REC	1	3/22/2012 5:46:26 PM			

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

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

RL Reporting Detection Limit

Page 30 of 44

Hall Er	nvironmental Analysis	Labora	atory, Inc.	R. A.L	An Lat Da	alytical Report Order 1203644 te Reported: 3/28/2012		
CLIENT:	Animas Environmental Services			Client Sample	ID: SB-7			
Project:	Enterprise K-31			Collection D	ate: 3/16/2	012 10:40:00 AM		
Lab ID:	1203644-031	Matrix: AQUEOUS Received I				Date: 3/17/2012 10:30:00 AM		
Analyses		Result	RL Qual	Units	DF	Date Analyzed		
EPA MET	HOD 8021B: VOLATILES				14 M	Analyst: NSB		
Benzene		37	2.0	µg/L	2	3/23/2012 3:14:47 PM		
Toluene		ND	2.0	µg/L	2	3/23/2012 3:14:47 PM		
Ethylben	zene	ND	2.0	µg/L	2	3/23/2012 3:14:47 PM		
Xylenes,	Total	ND	4.0	µg/L	2	3/23/2012 3:14:47 PM		
Surr: 4	4-Bromofluorobenzene	94.7	55-140	%REC	2	3/23/2012 3:14:47 PM		

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND
 Not Detected at the Reporting Limit

 RL
 Reporting Detection Limit

Page 31 of 44

Analytical Report
Lab Order 1203644
Date Reported: 3/28/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental ServicesProject: Enterprise K-31Lab ID: 1203644-032	Client Sample ID: SB-8 Collection Date: 3/16/2012 11:08:00 AM Matrix: AQUEOUS Received Date: 3/17/2012 10:30:00 AM						
Analyses	Result	RL Qual	Units	DF	Date Analyzed		
EPA METHOD 8021B: VOLATILES	1. 1. 1. 1. 1.			A. 147	Analyst: NSB		
Benzene	2.2	2.0	µg/L	2	3/23/2012 1:49:43 AM		
Toluene	ND	2.0	µg/L	2	3/23/2012 1:49:43 AM		
Ethylbenzene	ND	2.0	µg/L	2	3/23/2012 1:49:43 AM		
Xylenes, Total	ND	4.0	µg/L	2	3/23/2012 1:49:43 AM		
Surr: 4-Bromofluorobenzene	84.5	55-140	%REC	2	3/23/2012 1:49:43 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

Page 32 of 44

Date Reported: 3/28/2012

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CLIENT: Animas Environmental Service Project: Enterprise K-31 Lab ID: 1203644-033	s Matrix:	C	Client Sample ID: SB-9 Collection Date: 3/16/2012 11:55:00 AM Received Date: 3/17/2012 10:30:00 AM			
Analyses	Result	RL Qual	Units	DF	Date Analyzed	
EPA METHOD 8021B: VOLATILES	1.1			1	Analyst: NSB	
Benzene	430	10	µg/L	10	3/23/2012 2:19:53 AM	
Toluene	670	10	µg/L	10	3/23/2012 2:19:53 AM	
Ethylbenzene	70	10	µg/L	10	3/23/2012 2:19:53 AM	
Xylenes, Total	400	20	µg/L	10	3/23/2012 2:19:53 AM	
Surr: 4-Bromofluorobenzene	81.6	55-140	%REC	10	3/23/2012 2:19:53 AM	

Hall Environmental Analysis Laboratory, Inc.

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 33 of 44

Hall E	nvironmental Analysis	tory, Inc.	Date Reported: 3/28/2012				
CLIENT:	Animas Environmental Services		(lient Sampl	e ID: SB-10	rty the	
Project:	Enterprise K-31	Collection Date: 3/16/2012 12:43:00 PM					
Lab ID:	1203644-034	Matrix:	AQUEOUS	Received Date: 3/17/2012 10:30:00 AM			
Analyses	Constraint white	Result	RL Qual	Units	DF	Date Analyzed	
EPA MET	THOD 8021B: VOLATILES			all's we	1.1.7.5	Analyst: NSB	
Benzene		7.9	2.0	µg/L	2	3/23/2012 3:44:59 PM	
Toluene		9.1	2.0	µg/L	2	3/23/2012 3:44:59 PM	
Ethylben	izene	ND	2.0	µg/L	2	3/23/2012 3:44:59 PM	
Xylenes,	, Total	5.1	4.0	µg/L	2	3/23/2012 3:44:59 PM	
Sur	4-Bromofluorobenzene	93.5	55-140	%REC	2	3/23/2012 3:44:59 PM	

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

Analyte detected below quantitation limits J

- RPD outside accepted recovery limits R
- S Spike Recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank

Analytical Report Lab Order 1203644

- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Hall Environmental Analysi	atory, Inc.	Date Reported: 3/28/2012			
CLIENT: Animas Environmental Service	(Client Sample ID: SB-11			
Project: Enterprise K-31			Collection I	Date: 3/16/2	012 1:50:00 PM
Lab ID: 1203644-035	Matrix: AQUEOUS Received Date: 3/17/2012 1				012 10:30:00 AM
Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES		1 - C - C - C - C - C - C - C - C - C -		ومتلبون إلى	Analyst: NSB
Benzene	1,400	20	µg/L	20	3/23/2012 5:15:31 PM
Toluene	98	20	µg/L	20	3/23/2012 5:15:31 PM
Ethylbenzene	ND	20	µg/L	20	3/23/2012 5:15:31 PM
Xylenes, Total	140	40	µg/L	20	3/23/2012 5:15:31 PM
Surr: 4-Bromofluorobenzene	94.6	55-140	%REC	20	3/23/2012 5:15:31 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

Analytical Report Lab Order 1203644

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 35 of 44

Analytical Report	
Lab Order 1203644	

Date Reported: 3/28/2012

CLIENT: Animas Environmental Services	Client Sample ID: SB-12 Collection Date: 3/16/2012 1:55:00 PM									
Project: Enterprise K-31										
Lab ID: 1203644-036	Matrix:	AQUEOUS	Received Date: 3/17/2012 10:30:00 AM							
Analyses	Result	RL Qual	Units	DF	Date Analyzed					
EPA METHOD 8021B: VOLATILES	1.20				Analyst: NSB					
Benzene	13	2.0	µg/L	2	3/23/2012 4:50:48 AM					
Toluene	7.0	2.0	µg/L	2	3/23/2012 4:50:48 AM					
Ethylbenzene	ND	2.0	µg/L	2	3/23/2012 4:50:48 AM					
Xylenes, Total	4.3	4.0	µg/L	2	3/23/2012 4:50:48 AM					
Surr: A-Bromofluorobenzene	73.1	55-140	%REC	2	3/23/2012 4:50:48 AM					

Hall Environmental Analysis Laboratory, Inc.

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 36 of 44

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203644

28-Mar-12

Client: Animas E Project: Enterprise	invironmental Ser e K-31	vices							
Sample ID MB-1140	SampType: MI	BLK	Tes	tCode: E	PA Method	8015B: Diese	el Range (Organics	1 - 5 - 21-
Client ID: PBS	Batch ID: 11	40	F	RunNo: 1548					
Prep Date: 3/19/2012	Analysis Date: 3/	20/2012	5	SeqNo: 4	3618	Units: mg/K	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO) Surr: DNOP	ND 10 7.9	10.00		78.5	77.4	131			
Sample ID LCS-1140	SampType: LC	s	Tes	tCode: E	PA Method	8015B: Diese	el Range (Organics	
Client ID: LCSS	Batch ID: 11	40	F	RunNo: 1	548				
Prep Date: 3/19/2012	Analysis Date: 3/	20/2012	5	SeqNo: 4	3635	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40 10	50.00	0	80.1	62.7	139			
Surr: DNOP	5.2	5.000	area in the	103	77.4	131			
Sample ID 1203560-001AMS	SampType: MS	3	Tes	tCode: El	PA Method	8015B: Diese	el Range C	Organics	1.1
Client ID: BatchQC	Batch ID: 11	40	F	RunNo: 1	548				
Prep Date: 3/19/2012	Analysis Date: 3/	20/2012	5	SeqNo: 4	3844	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	35 9.7	48.69	0	72.4	57.2	146			
Surr: DNOP	3.9	4.869		79.4	77.4	131			
Sample ID 1203560-001AMSI	SampType: MS	SD	Tes	tCode: El	PA Method	8015B: Diese	el Range (Organics	
Client ID: BatchQC	Batch ID: 11	40	F	RunNo: 1	548				
Prep Date: 3/19/2012	Analysis Date: 3/	20/2012	5	SeqNo: 4	3957	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	34 9.7	48.69	0	70.7	57.2	146	2.25	26.7	
Surr: DNOP	4.2	4.869		86.9	77.4	131	0	0	
Sample ID MB-1147	SampType: MI	BLK	Tes	tCode: El	PA Method	8015B: Diese	el Range C	Organics	1911
Client ID: PBS	Batch ID: 11	47	F	RunNo: 1	548				
Prep Date: 3/20/2012	Analysis Date: 3/	21/2012	5	SeqNo: 4	4229	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	7.7	10.00		77.2	77.4	131			S
Sample ID LCS-1147	SampType: LC	s	Tes	tCode: El	PA Method	8015B: Diese	el Range (Organics	in the second
Client ID: LCSS	Batch ID: 11	47	F	RunNo: 1	548				
Prep Date: 3/20/2012	Analysis Date: 3/	21/2012	5	SeqNo: 4	4230	Units: mg/K	g		
Analyte	Result POI	SPK value	SPK Ref Val	%REC	Lowl imit	Highl imit	%RPD	RPDI imit	Qual
Diesel Range Organics (DRO)	42 10	50.00	0	85.0	62.7	139			
Surr: DNOP	4.1	5.000		83.0	77.4	131			

Qualifiers:

J

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

- 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

Reporting Detection Limit

RL

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

4.6

WO#: 1203644 28-Mar-12

Client: Project:	Animas E Enterprise	invironme e K-31	ntal Ser	vices							
Sample ID	1203644-006AMS	14-006AMS SampType: MS TestCode: EPA Method 8015B: Diesel Range Organics								Organics	Street,
Client ID:	SB-3 @ 14'	Batcl	h ID: 11	47	F	RunNo: 1	548				
Prep Date:	3/20/2012	Analysis D	Date: 3/	3/21/2012 SeqNo: 44293			4293	Units: mg/Kg			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	43	10	49.85	0	86.1	57.2	146			al Constant
Surr: DNOP		4.4		4.985	B	89.1	77.4	131			
Sample ID	1203644-006AMS	D SampT	ype: MS	SD	Tes	tCode: E	PA Method	8015B: Dies	el Range (Organics	
Client ID:	SB-3 @ 14'	Batcl	h ID: 11	47	F	RunNo: 1	548				
Prep Date:	3/20/2012	Analysis D	Date: 3/	21/2012	5	SeqNo: 4	4458	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	48	10	50.81	0	94.3	57.2	146	11.0	26.7	

89.9

77.4

131

0

0

5.081

Qualifiers:

Surr: DNOP

- */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 38 of 44

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203644

28-Mar-12

Client: Project:	Animas E Enterprise	nvironme e K-31	ntal Ser	vices							
Sample ID	MB-1137	SampT	Гуре: МЕ	BLK	Tes	stCode: E	PA Method	8015B: Gas	oline Rang	e	
Client ID:	PBS	Batc	h ID: 11	37	RunNo: 1567						
Prep Date:	3/19/2012	Analysis E	Date: 3/	20/2012		SeqNo: 4	3981	Units: mg/l	۲g		
Analyte	1.1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang Surr: BFB	e Organics (GRO)	ND 930	5.0	1,000		93.4	69.7	121			
Sample ID	ID LCS-1137 SampType: LCS TestCode: EPA Method 8015B: Gasoline Range										
Client ID:	LCSS	Batc	h ID: 11:	37		RunNo: 1	567				
Prep Date:	3/19/2012	Analysis D	Date: 3/	20/2012		SeqNo: 4	3982	Units: mg/l	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	27	5.0	25.00	0	108	98.5	133	1.00	1.96	
Surr: BFB		1,000		1,000		100	69.7	121		1. A	
Sample ID	1203640-001AMS	SampT	Type: MS	;	Tes	tCode: E	PA Method	8015B: Gase	oline Rang	e	
Client ID:	BatchQC	Batc	h ID: 11:	37	1	RunNo: 1	567				
Prep Date:	3/19/2012	Analysis D	Date: 3/	20/2012		SeqNo: 4	4445	Units: mg/l	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	25	4.8	23.95	0	103	85.4	147			
Surr: BFB		960		957.9		100	69.7	121			
Sample ID	1203640-001AMSE	Samp1	Type: MS	SD	Tes	tCode: E	PA Method	8015B: Gase	oline Rang	e	
Client ID:	BatchQC	Batcl	h ID: 11:	37	RunNo: 1567						
Prep Date:	3/19/2012	Analysis D	Date: 3/	21/2012		SeqNo: 4	4446	Units: mg/l	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	26	4.7	23.74	0	109	85.4	147	4.37	19.2	
Surr: BFB		970		949.7		102	69.7	121	0	0	
Sample ID	1203644-008AMS	SampT	Type: MS	;	Tes	tCode: E	PA Method	8015B: Gase	oline Rang	e	
Client ID:	SB-4 @ 14'	Batcl	h ID: 11:	39	1	RunNo: 1	635				
Prep Date:	3/19/2012	Analysis D	Date: 3/	23/2012	:	SeqNo: 4	6848	Units: mg/l	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	30	4.9	24.37	0	123	85.4	147			
Surr: BFB		1,000		974.7		103	69.7	121			
Sample ID	1203644-008AMSD) SampT	Type: MS	SD	Tes	tCode: E	PA Method	8015B: Gase	oline Rang	e	25. p W
Client ID:	SB-4 @ 14'	Batc	h ID: 11:	39	1	RunNo: 1	635				
Prep Date:	3/19/2012	SeqNo: 46849 Units: mg/Kg				(g					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	29	4.9	24.44	0	117	85.4	147	4.70	19.2	
Surr: BFB		1,000		977.5		103	69.7	121	0	0	

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 39 of 44
Hall Environmental Analysis Laboratory, Inc.

WO#: 1203644

28-Mar-12

Client: Animas Project: Enterpri	Environmental Services ise K-31	and the second				
Sample ID MB-1139 Client ID: PBS Prep Date: 3/19/2012	SampType: MBLK Batch ID: 1139 Analysis Date: 3/23/2012	TestCode: RunNo: 2 SeqNo:	EPA Method 1635 46850	8015B: Gasoline Rang Units: mg/Kg	je	
Analyte	Result PQL SPK v	value SPK Ref Val %REC	LowLimit	HighLimit %RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 5.0 960 1	1,000 95.6	69.7	121		
Sample ID LCS-1139 Client ID: LCSS Prep Date: 3/19/2012	SampType: LCS Batch ID: 1139 Analysis Date: 3/23/2012	TestCode: RunNo: 2 SegNo:	EPA Method 1635 46851	8015B: Gasoline Rang Units: mɑ/Kɑ	ge	
Analyte	Result PQL SPK v	value SPK Ref Val %REC	C LowLimit	HighLimit %RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	27 5.0 2 1,000 1	25.00 0 108 1,000 103	3 98.5 3 69.7	133 121		

Qualifiers:

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

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

Page 40 of 44

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203644

28-Mar-12

Client: Project:	Animas E Enterpris	Environme e K-31	ental Ser	vices							
Sample ID	MB-1137	Samp	Type: MI	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles	and the starty	
Client ID:	PBS	Batc	h ID: 11	37	F	RunNo: 1	567				
Prep Date:	3/19/2012	Analysis [Date: 3/	20/2012	:	SeqNo: 4	3999	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-Brom	nofluorobenzene	0.97	140	1.000		96.8	80	120		a 14 (14)	198.20
Sample ID	LCS-1137	Samp	Type: LC	s	Tes	tCode: El	PA Method	8021B: Vola	tiles		-
Client ID:	LCSS	Batc	h ID: 11	37	F	RunNo: 1	567				
Prep Date:	3/19/2012	Analysis [Date: 3/	20/2012	\$	SeqNo: 4	4000	Units: mg/M	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.92	0.050	1.000	0	91.6	83.3	107			
Toluene		0.93	0.050	1.000	0	92.8	74.3	115			
Ethylbenzene		0.94	0.050	1.000	0	93.7	80.9	122			
Xylenes, Total		2.8	0.10	3.000	0	93.1	85.2	123			
Surr: 4-Brom	ofluorobenzene	0.99		1.000	P	99.3	80	120			
Sample ID	1203640-002AMS	Samp	Type: MS	3	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID:	BatchQC	Batc	h ID: 11	37	F	RunNo: 1	567				
Prep Date:	3/19/2012	Analysis [Date: 3/	21/2012	5	SeqNo: 4	4456	Units: mg/H	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.94	0.050	0.9960	0	94.9	67.2	113			
Toluene		0.98	0.050	0.9960	0	98.4	62.1	116			
Ethylbenzene		0.99	0.050	0.9960	0	99.7	67.9	127			
Xylenes, Total		3.0	0.10	2.988	0	99.2	60.6	134			
Surr: 4-Brom	ofluorobenzene	1.0		0.9960	100	102	80	120	1		A-1-7
Sample ID	1203640-002AMS	D Samp	Type: MS	SD	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID:	BatchQC	Batc	h ID: 11	37	F	RunNo: 1	567				
Prep Date:	3/19/2012	Analysis [Date: 3/	21/2012	5	SeqNo: 4	4457	Units: mg/M	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.94	0.050	0.9911	0	94.9	67.2	113	0.420	14.3	
Toluene		0.97	0.050	0.9911	0	97.9	62.1	116	1.03	15.9	
Ethylbenzene		0.99	0.050	0.9911	0	99.8	67.9	127	0.425	14.4	
Xylenes, Total		3.0	0.099	2.973	0	99.8	60.6	134	0.156	12.6	
Surr: 4-Brom	ofluorobenzene	0.99		0.9911		100	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 41 of 44

WO#: 1203644 28-Mar-12

Client: Animas Environmental Services **Project:** Enterprise K-31 Sample ID MB-1139 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Batch ID: 1139 RunNo: 1627 Client ID: PBS Prep Date: 3/19/2012 Analysis Date: 3/23/2012 SeqNo: 46195 Units: mg/Kg Result POI SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte ND 0.050 Benzene ND 0.050 Toluene ND 0.050 Ethylbenzene ND 0.10 Xylenes, Total Surr: 4-Bromofluorobenzene 0.97 1.000 96.8 80 120 Sample ID LCS-1139 TestCode: EPA Method 8021B: Volatiles SampType: LCS Client ID: LCSS Batch ID: 1139 RunNo: 1627 Prep Date: 3/19/2012 SeqNo: 46196 Analysis Date: 3/23/2012 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene 0.96 0.050 1.000 0 96.4 83.3 107 0.97 0.050 1.000 0 96.9 74.3 115 Toluene Ethylbenzene 0.97 0.050 1.000 0 96.9 80.9 122 Xylenes, Total 2.9 0.10 3.000 0 96.9 85.2 123 Surr: 4-Bromofluorobenzene 1.000 100 80 120 1.0 Sample ID 1203644-013AMS SampType: MS TestCode: EPA Method 8021B: Volatiles Client ID: SB-5 @ 4' Batch ID: 1139 RunNo: 1627 Prep Date: 3/19/2012 Analysis Date: 3/22/2012 SegNo: 46233 Units: mg/Kg SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual 0.03266 Benzene 0.72 0.048 0.9533 72.2 67.2 113 Toluene 0.77 0.048 0.9533 0 80.6 62.1 116 Ethylbenzene 0.82 0.048 0.9533 0.02970 83.1 67 9 127 Xylenes, Total 2.7 0.095 2.860 0.2693 83.9 60.6 134 Surr: 4-Bromofluorobenzene 0.95 0.9533 99.7 80 120 Sample ID 1203644-013AMSD SampType: MSD TestCode: EPA Method 8021B: Volatiles Client ID: SB-5 @ 4' Batch ID: 1139 RunNo: 1627 Prep Date: 3/19/2012 Analysis Date: 3/22/2012 SeqNo: 46234 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Benzene 0.84 0.049 0.9862 0.03266 82.1 67.2 113 15.5 14.3 R Toluene 0.83 0.049 0.9862 0 84.7 62 1 116 8.25 15.9 0.9862 Ethylbenzene 0.85 0.049 0.02970 83.5 67.9 127 3.70 14.4 Xylenes, Total 2.7 0.099 2.959 0.2693 83 2 60.6 134 2.29 12.6 Surr: 4-Bromofluorobenzene 0.96 0.9862 97 6 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 42 of 44

Page 42

Hall Environmental Analysis Laboratory, Inc.

Client: Animas Environmental Services **Project:**

Enterprise K-31

Sample ID	5ML RB	Samp	Гуре: М	BLK	Tes	stCode: E	PA Method	8021B: Volat	tiles		
Client ID:	PBW	Batc	h ID: R1	628	1	RunNo: 1	628				
Prep Date:		Analysis [Date: 3	/22/2012		SeqNo: 4	6269	Units: µg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	1.0		and the second second			1200	PUSI-		
Toluene		ND	1.0								
Ethylbenzene		ND	1.0								
Xylenes, Total		ND	2.0								
Surr: 4-Brom	ofluorobenzene	19		20.00		94.3	55	140			
Sample ID	100NG BTEX LCS	Samp	Type: LC	s	Tes	stCode: E	PA Method	8021B: Volat	tiles		
Client ID:	LCSW	Batc	h ID: R1	628	F	RunNo: 1	628				
Prep Date:		Analysis [Date: 3	/22/2012		SeqNo: 4	6272	Units: µg/L			
Analyte	Et States	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		21	1.0	20.00	0	106	80	120		a la serie de la s	
Toluene		22	1.0	20.00	0	112	80	120			
Ethylbenzene		22	1.0	20.00	0	110	80	120			
Xylenes, Total		66	2.0	60.00	0	110	80	120			
Surr: 4-Brom	ofluorobenzene	20		20.00		102	55	140	1.13		1.2
Sample ID	1203644-010AMS	Samp	Type: M	S	Tes	stCode: E	PA Method	8021B: Volat	tiles		
Client ID:	SB-2	Batc	h ID: R1	628	F	RunNo: 1	628				
Prep Date:		Analysis [Date: 3	22/2012	5	SeqNo: 4	6294	Units: µg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		55	2.0	40.00	46.08	22.3	70.1	118		the star on a	S
Toluene		48	2.0	40.00	5.904	106	72.3	117			
Ethylbenzene		43	2.0	40.00	0.4480	106	73.5	117			
Xylenes, Total		130	4.0	120.0	1.820	107	73.1	119			
Surr: 4-Brom	ofluorobenzene	34		40.00	- Andrew	86.2	55	140	1.5		
Sample ID	1203644-010AMSE	Samp	Type: M	SD	Tes	stCode: E	PA Method	8021B: Volat	tiles		
Client ID:	SB-2	Batc	h ID: R1	628	F	RunNo: 1	628				
Prep Date:		Analysis [Date: 3	/23/2012	:	SeqNo: 4	6296	Units: µg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	14 A	54	2.0	40.00	46.08	18.9	70.1	118	2.50	16.4	S
Foluene		47	2.0	40.00	5.904	104	72.3	117	1.78	13.9	

Qualifiers:

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

*/X Value exceeds Maximum Contaminant Level.

43

130

43

2.0

4.0

40.00

120.0

40.00

0.4480

1.820

- Value above quantitation range E
- Analyte detected below quantitation limits J
- R RPD outside accepted recovery limits

В Analyte detected in the associated Method Blank

106

107

107

73.5

73.1

55

- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL **Reporting Detection Limit**

Page 43 of 44

13.5

12.9

0

0.485

0.799

0

117

119

140

28-Mar-12

WO#:

1203644

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203644 28-Mar-12

Client: Project:	Animas E Enterprise	nvironmer e K-31	ntal Ser	vices	an sin an ist		-		12		
Sample ID 51	ML RB	SampT	ype: M	BLK	Tes	tCode: E	PA Method	8021B: Volat	iles	1. 1	The state
Client ID: P	BW	Batch	ID: R1	655	F	RunNo: 1	655				
Prep Date:		Analysis D	ate: 3/	23/2012	S	SeqNo: 4	6805	Units: µg/L			
Analyte	2018 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
lenzene		ND	1.0		Constant Section			1999	75	1.1.1.1.1.1	
oluene		ND	1.0								
Ethylbenzene		ND	1.0								
ylenes, Total		ND	2.0								
Surr: 4-Bromoff	uorobenzene	18	1	20.00	10246	89.8	55	140			100
Sample ID 1	OONG BTEX LCS	SampT	ype: LC	s	Tes	tCode: E	PA Method	8021B: Volat	iles	Town Party	1
Client ID: L	csw	Batch	ID: R1	655	F	RunNo: 1	655				
Prep Date:		Analysis D	ate: 3/	23/2012	s	SeqNo: 4	6806	Units: µg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19. 19. 19. 19.	21	1.0	20.00	0	106	80	120	100		
oluene		22	1.0	20.00	0	111	80	120			
thylbenzene		22	1.0	20.00	0	111	80	120			
ylenes, Total		66	2.0	60.00	0	110	80	120			
Surr: 4-Bromofi	uorobenzene	22		20.00		110	55	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 44 of 44

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Animas Environmental

Client Name:

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

hallenvironmental.com	
Work Order Number: 1203644	

Rece	eived by/date	e: AF 031	117/12	_				
Logg	ed By:	Anne Thorne	3/17/2012 10:30:00 AM				am	u the
Com	pleted By: ewed By:	Anne Thome	3/19/2012 03/19/2012				am	a the
Chai	in of Cus	tody	a su para presenta a					
1. 1	Were seals	intact?		Yes		No		Not Present
2.	Is Chain of (Custody complete?		Yes		No		Not Present
3. 1	How was the	e sample delivered?		Cour	rier			
Log	In							
4.	Coolers are	present? (see 19. for co	oler specific information)	Yes		No		NA 🗆
5. 1	Was an atte	mpt made to cool the sa	amples?	Yes		No		NA 🗆
6. \	Were all sar	mples received at a temp	perature of >0° C to 6.0°C	Yes		No		
7. 1	Sample(s) ir	n proper container(s)?		Yes	•	No		
8. 5	Sufficient sa	mple volume for indicat	ed test(s)?	Yes		No		
9. /	Are samples	(except VOA and ONG	i) properly preserved?	Yes	\checkmark	No		
10.1	Was preserv	vative added to bottles?		Yes		No		NA 🗆
11. 1	VOA vials ha	ave zero headspace?		Yes		No		No VOA Vials
12.1	Were any sa	ample containers receive	ed broken?	Yes		No	1	
13. [Does paperv Note discre	work match bottle labels pancies on chain of cus	? tody)	Yes		No		# of preserved bottles checked for pH:
14.	Are matrices	s correctly identified on (Chain of Custody?	Yes		No		(<2 or >12 unless noted)
15.1	s it clear wh	at analyses were reque	sted?	Yes	V	No		Adjusted?
16.	Nere all hold	ding times able to be me	et?	Yes	✓	No		
(If no, notify	customer for authorizati	on.)					Checked by:
Spec	lal Handl	ling (if applicable)						
17.	Was client n	otified of all discrepanci	es with this order?	Yes		No		NA 🗹
	Person	Notified:	Date		-			
	By Who	om:	Via:] eMa	il [P	hone	Fax In Person
	Regard	ling:						
	Client I	nstructions:			-	-		

18. Additional remarks:

19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.2	Good	Yes			

Client:	hain- Animo	of-Cu	Services	Turn-A	round Indard	Time:					FA			E	NV	VIR 5 L	20 AE	NM 30	1EI RA	NT/	AL RY	
Mailing	Address	624 in NM	E. Comarche	Project	K	In triprise	•		49 Te	01 H el. 50	awki 15-34	www ns N 5-39	v.hal NE - 975 A	Alb F	ironr uque ax	nent erqu 505- Reg	al.co e, NI 345- uest	om M 87 -4107	109			
email o QA/QC	r Fax#: Package: ndard	5 36	Level 4 (Full Validation)	Project	Mana	iger: Poss Konne	mer	's (8021) -	(Gas only)	3as/Diesel)				Stratter .	,,PO4,SO4)	2 PCB's		N. 1. 18				
	itation AP) (Type) _	□ Othe	r	Sample On Ice Sample	er: 7 a Tem	homos La perature (* 2	NO NO	TBE + TMB	TBE + TPH	od 8015B (C	10d 418.1)	nod 504.1)	A or PAH)	letals	CI,NO ₃ ,NO ₂	icides / 808;	(AC	ni-VOA)				IS (Y Or N)
Date	Time	Matrix	Sample Request ID	Conta Type a	ainer and #	Preservative Type	HEARNO 1203/2444	BTEX + M	BTEX + M	TPH Meth	TPH (Meth	EDB (Meti	8310 (PN/	RCRA 8 N	Anions (F,	8081 Pest	8260B (VC	8270 (Sen				Air Bubble
2-15-12	1345	Sàil	5B-1 C.161	462	Jar	Jet	-00	X		X										4	+	_
	1348		5B-1 2141				-002	X		4		-							_			
	Mas		5B-2 e 2-41				-003	X		¥			-				-		-		+	-
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If accessory samples submitted to Uall Environmental may be subcontracted to other accredited ishoratorias. This same as notice of this neekbility. Any sub-contracted data will be clearly notated on the analytical renord

Client:	hain-	of-Cu	Istody Record	Turn-Around	Time:					H		L	EN		IR		NM	IEN	ITA	L
-	1 min	as the	. Jervies	Project Name		28-				A	IV F	VL.	19.	12		AC		KA	101	KY .
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Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX + MIB	BTEX + MTBE	TPH Method 8	TPH (Method	EDB (Method	8310 (PNA or	RCRA 8 Meta	Anions (F,CI,	8081 Pesticid	8260B (VOA)	8270 (Semi-V			Air Bubbles (Y
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	1022	9	SB-7e141			-018	x		4											
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