3R – 437

RELEASE ASSESSMENT REPORT

DATE: 03/09/2011

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

March 9, 2012

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

RE: Smyers LS #1 Release Assessment Report
San Juan County, New Mexico

Dear Mr. Dailey:

Animas Environmental Services, LLC (AES) is pleased to submit the final report for a natural gas condensate release, which occurred along the Enterprise Products Company (Enterprise) 2-inch diameter Smyers LS #1 pipeline. The release is located approximately 7 miles northeast of Aztec, San Juan County, New Mexico, on Federal land under jurisdiction of the Bureau of Land Management (BLM) land.

1.0 Release Information

1.1 Location

Location - SW¼, SW¼, Section 2, T31N, R11W, San Juan County, New Mexico
Latitude/Longitude - N36.9234°and W107.96485°, respectively
Surface Owner – Federal (BLM)
Figure 1 - Topographic Site Location Map
Figure 2 - Aerial Site Location Map

1.2 NMOCD Ranking

Once on-site, AES personnel assessed the New Mexico Oil Conservation Division (NMOCD) ranking criteria using topographical interpretation, Global Position System (GPS) elevation readings, and visual reconnaissance. The release occurred in Kiffen Wash, and depth to groundwater is approximately 3 feet below ground surface (bgs). Additionally, a natural spring is located approximately 800 feet down gradient of the release location. The release location is not within a well head protection area according to a database search of the New Mexico Office of the State Engineer (NMOSE). Therefore, a NMOCD ranking score of 20 was assessed for the location.

1.3 Assessment and Mitigation

On December 26, 2011, the release was discovered by Enterprise personnel. On the same date, Enterprise employees were dispatched to confirm the release and proceeded to shut in the affected well, de-pressurize the associated lines, and lock out/tag out associated control valves. Enterprise continued the release assessment on December 27, 2011, when it was determined that the release resulted from two ruptures in the Smyers LS #1 pipeline due to frozen water. On the same day, Enterprise contractor, Southwest Field Services (SWFS), excavated impacted soil within the two release areas.

On December 28, 2011, an initial release assessment was completed by AES personnel. Using a hand auger, four soil borings were each advanced to a total depth of 3 feet bgs, at which point groundwater was encountered. Soil samples were field screened, and confirmation soil and water samples were collected for laboratory analysis. Groundwater impact was confirmed, and excavation activities were scheduled.

On January 12 and 13, 2012, source removal excavation was conducted by AES and SWFS. A test hole was excavated near Release Point A (northeast release) to approximately 3 feet bgs. Soil, surface and groundwater samples were collected for laboratory analysis. The excavation was conducted near Release Point B (southwest release). The excavation was continuously field screened, and confirmation soil and groundwater samples were collected.

The final excavation dimensions measured approximately 21 feet long by 29 feet wide by 3 feet deep. Approximately 142 cubic yards of hydrocarbon contaminated soil were transported by SWFS to the Industrial Ecosystems (IEI) Landfarm, located near Farmington, New Mexico. Approximately 100 cubic yards of clean, sandy clay material obtained from IEI were used to backfill the test hole and the excavation. A copy of the waste manifest (Form C-138) is attached.

2.0 Soil Sampling

On December 28, 2011, four soil borings were hand augered near Release Point B to a total depth of 3 feet bgs. Five confirmation soil samples were collected from SB-1 through SB-4 for laboratory analysis. Two samples were collected from SB-1, at 1 foot and 3 foot bgs, and one sample was collected from SB-2 through SB-4 at the base of each soil boring. Soil sample locations are presented on Figure 2.

On January 12 and 13, 2012, one soil sample was collected from the base (3 feet bgs) of the test hole for Release Area A (TH-1). Additionally, four discrete soil samples (EXC-1

through EXC-4) were collected from each wall of the Release Point B excavation at approximately 2 feet bgs. Soil sample locations are presented on Figure 4.

2.1 Soil Field Screening

On December 28, 2011, the four soil borings were field screened at 1-foot intervals for volatile organic compound (VOC) vapors with a photo-ionization detector (PID) organic vapor meter (OVM). On January 12 and 13, 2012, 21 discrete samples were collected from the Release Area B excavation for field screening of VOC vapors. Before beginning field screening the PID-OVM was calibrated to 100 parts per million (ppm) with isobutylene gas.

2.2 Soil Laboratory Analyses

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

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

2.3 Soil Field Screening and Laboratory Analytical Results

Field screening of VOCs (via OVM) on December 28, 2011, showed concentrations that ranged from 1.3 ppm in SB-3 at 3 ft bgs up to 2,433 ppm in SB-1 at 1 ft bgs. On January 12 and 13, 2012, VOC concentrations ranged from 3.2 ppm in EXC-1 and TH-1 up to 46 ppm in EXC-2. Field screening results for soil samples submitted for laboratory analysis in December 2011 and January 2012 are summarized in Table 1 and on Figures 3 and 4.

Soil laboratory analytical results showed that benzene concentrations in December 2011 ranged from below detection limits in SB-1 at 1 ft bgs, SB-2, and SB-3 up to 98 mg/kg in SB-4. Total BTEX concentrations were below laboratory detection limits in SB-1 at 1 ft bgs, SB-3, and SB-3 and were reported at 1,800 mg/kg in SB-4. TPH concentrations were highest in SB-4 with 140 mg/kg GRO and 15,000 mg/kg DRO. January 2012 soil laboratory analytical results showed that benzene, total BTEX and TPH were all below laboratory detection limits for EXC-1 through EXC-4 and for TH-1. Laboratory analytical results are included in Table 1 and in Figures 3 and 4. Laboratory analytical reports are attached.

Table 1. Soil Field Screening and Analytical Results
Smyers LS#1 Pipeline Release, December 2011 and January 2012

Sample ID	Date	Depth (ft bgs)	VOCs OVM (ppm)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)
NMOCD Action Level*			***100***	***10***	***50***	***100***	
SB-1	12/28/11	1	**2,433**	<0.049	<0.244	<4.9	<9.9
	12/28/11	3	**521**	0.14	3.41	37	<10
SB-2	12/28/11	3	3.5	<0.047	<0.236	<4.7	<9.8
SB-3	12/28/11	3	1.3	<0.048	<0.240	<4.8	<10
SB-4	12/28/11	3	**1,643**	**98**	**1,800**	**140**	**15,000**
EXC-1	1/12/12	2	3.2	<0.047	<0.235	<4.7	<10
EXC-2	1/12/12	2	46	<0.048	<0.241	<4.8	<10
EXC-3	1/13/12	2	32	<0.047	<0.236	<4.7	<10
EXC-4	1/13/12	2	43	<0.050	<0.25	<5.0	<10
TH-1	1/13/12	3	3.2	<0.050	<0.25	<5.0	<9.9

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

NMOCD action levels for releases are specified NMOCD's *Guidelines for Leaks, Spills, and Releases* (August 1993). Benzene, BTEX and TPH concentrations exceeded the NMOCD action levels in SB-4, which was located in the initial assessment area. OVM readings taken during the initial assessment in December 2011 exceeded NMOCD action levels in SB-1 (1 and 3 ft bgs) and in SB-4 (3 ft bgs). Once excavation work was completed in January 2012, soil confirmation sampling showed that field screening and laboratory analytical results were below all applicable NMOCD action levels.

3.0 Groundwater Sampling

On December 28, 2011, one groundwater sample (SB-2W) was collected from SB-2, and one surface water sample (SW-1) was also collected from Release Point A. Additional groundwater samples were collected from the Release Point A test hole (THW-1) and Release Point B excavation (EXCW-1 and EXCW-2) on January 12 and 13, 2012.

3.1 Groundwater Laboratory Analyses

The groundwater samples and surface water sample were placed into new, clean, laboratory-supplied VOAs preserved with hydrochloric acid (HCl), which were then labeled, placed on ice, and logged onto a sample chain of custody record. The sample

containers were maintained on ice until delivery to the analytical laboratory, Hall, in Albuquerque, New Mexico. The samples were laboratory analyzed for:

- BTEX per USEPA Method 8021B;

3.2 Groundwater Laboratory Analytical Results

Groundwater analytical results showed that benzene concentrations exceeded New Mexico Water Quality Control Commission (WQCC) standards in EXCW-1 (15,000 µg/L) and EXCW-2 (1,000 µg/L). EXCW-1 also had dissolved phase concentrations above applicable WQCC standards with 81,000 µg/L toluene and 53,000 µg/L total xylenes. Note that ethylbenzene in EXCW-1 was reported below a laboratory detection limit of 10,000 µg/L. EXCW-2 also exceeded WQCC standards for toluene (4,800 µg/L) and total xylenes (3,100 µg/L). All other water samples collected were either below WQCC standards or below laboratory analytical detection limits for the parameters analyzed.
The groundwater sample results are presented below in Table 2.

Table 2. Groundwater Analytical Results
Smyers LS#1 Pipeline Release, December 2011 and January 2012

Sample ID	*Date Sampled*	*Depth (ft)*	*Benzene (µg/L)*	*Toluene (µg/L)*	*Ethyl-benzene (µg/L)*	*Total Xylenes (µg/L)*
	WQCC Standards		***10***	***750***	***750***	***620***
SB-2W	12/28/11	3	<2.0	<2.0	<2.0	<4.0
SW-1	12/28/11	Surface	<1.0	11	2.0	28
EXCW-1	1/12/12	3	**15,000**	**81,000**	**<10,000**	**53,000**
EXCW-2	1/13/12	3	**1,000**	**4,800**	270	**3,100**
THW-1	1/13/12	3	5.1	81	17	200

Groundwater analytical results are included on Figure 5, and laboratory analytical reports are attached.

4.0 Conclusions and Recommendations

Based on field observations, field screening values, and laboratory analytical results after the test hole and source excavation of the release areas, petroleum hydrocarbon contaminated soils have been removed from the release locations. Confirmation soil samples (EXC-1 through EXC-4 and TH-1) from January 2012 had OVM, benzene, total BTEX and TPH concentrations below NMOCD action levels. However, based on groundwater laboratory analytical results, groundwater has been impacted at Release

Area B. Dissolved phase benzene concentrations were well above WQCC standards in EXCW-1 (15,000 µg/L) and EXCW-2 (1,000 µg/L). Dissolved phase toluene, ethylbenzene and xylene concentrations were also above applicable WQCC standards, although note that the laboratory detection limit for ethylbenzene in EXCW-1 was 10,000 µg/L.

The Smyers LS #1 pipeline crosses Kiffen Wash, which is an ephemeral stream. Therefore, AES recommends installing temporary groundwater monitor wells via hydropunching with a direct push GeoProbe rig to further delineate the dissolved phase contaminant plume. AES will submit a workplan under separate cover detailing a proposed scope of work.

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

Sincerely,

Thomas J. Long
Project Manager

Elizabeth McNally, P.E.

Attachments:

- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Location Map
- Figure 3. Soil Boring Locations and Soil Sample Results, December 2011
- Figure 4. Excavation Location and Soil Sample Results, January 2012
- Figure 5. Groundwater Sample Locations and Analytical Results, December 2011 and January 2012
- Photograph Log
- IEI Waste Disposal Manifests
- Laboratory Analytical Reports (Hall #1112A06A, 1201374, and 12014167)

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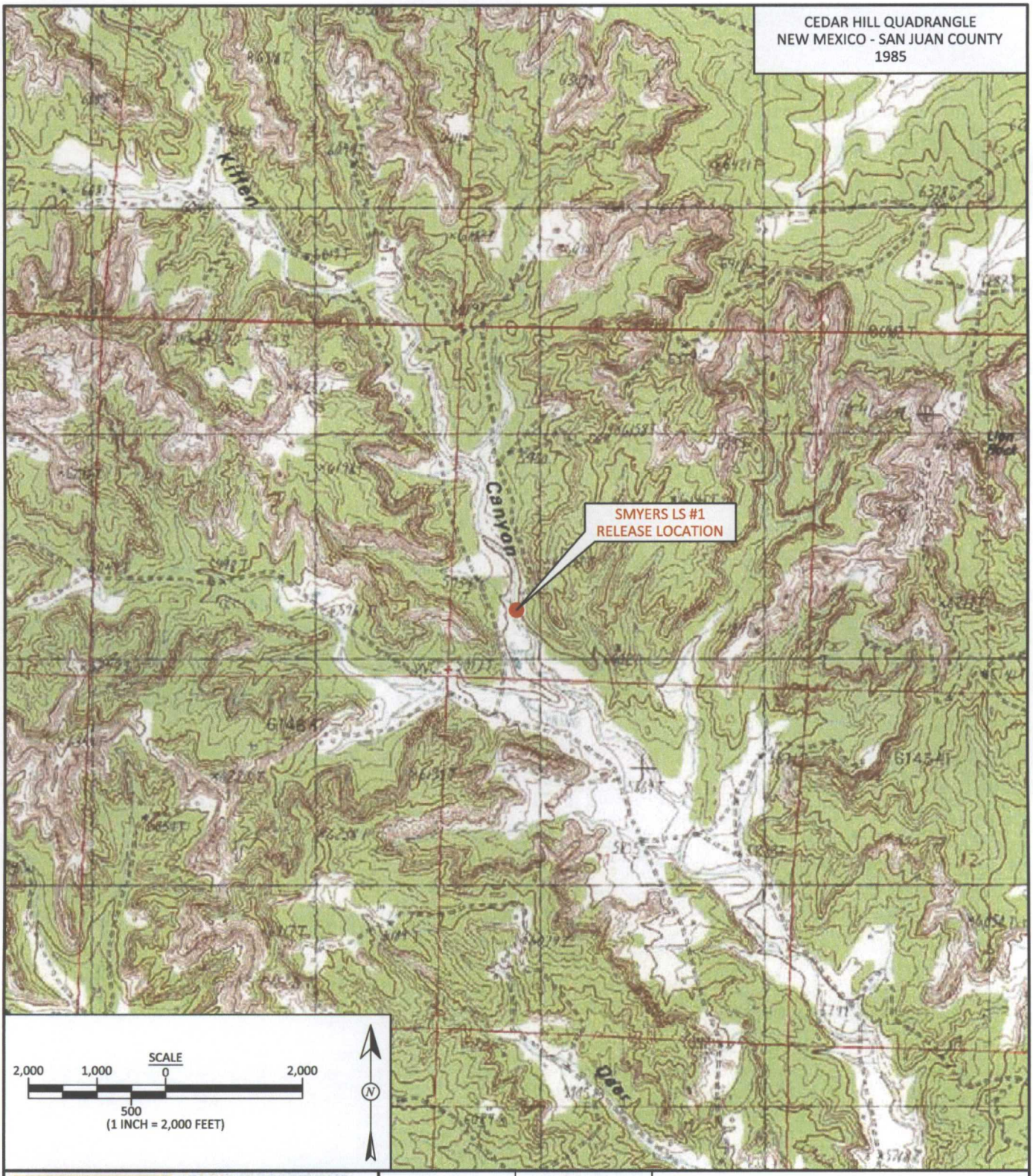
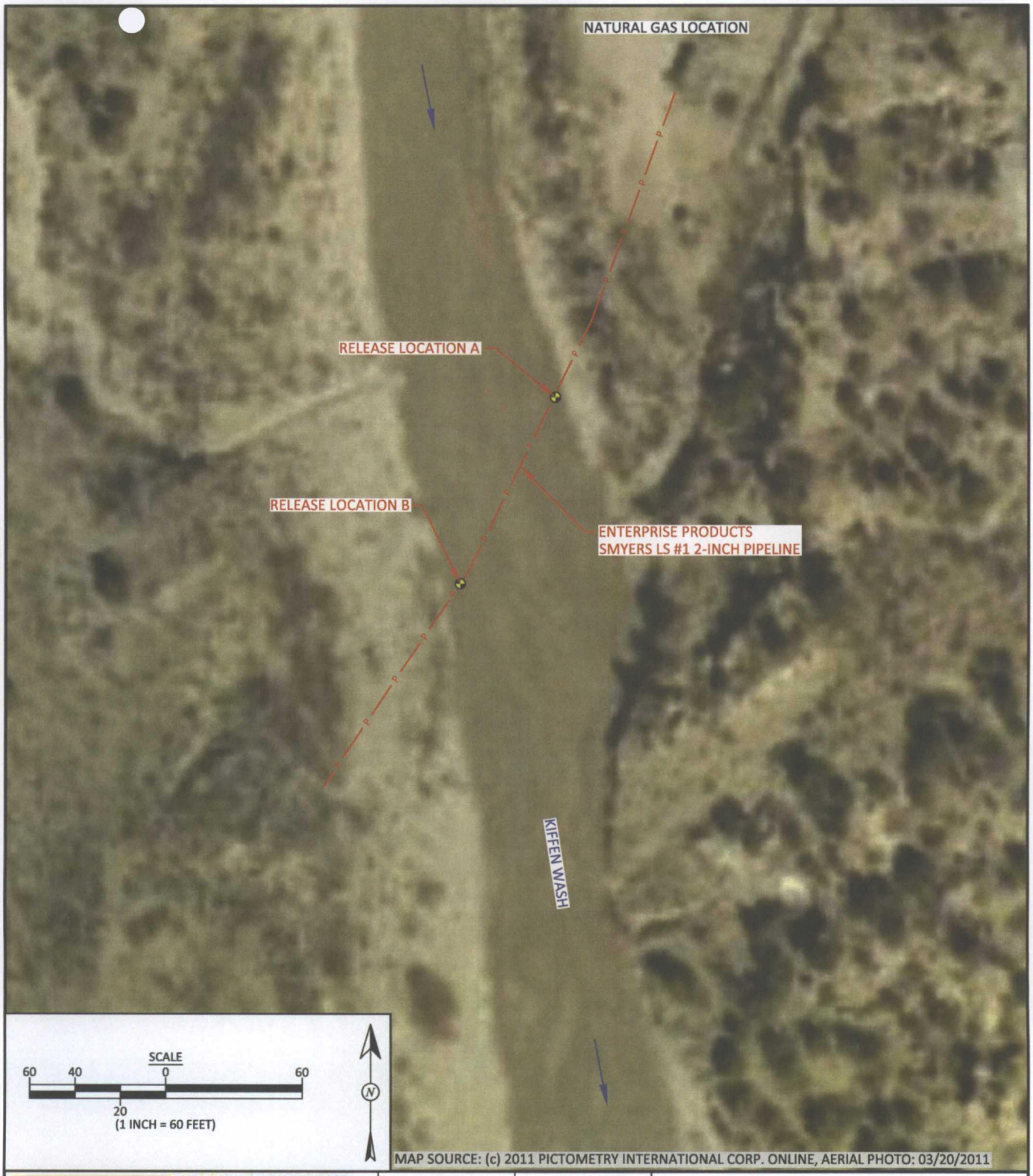


DRAWN BY: N. Willis	**DATE DRAWN:** December 30, 2011
REVISIONS BY: C. Lameman	**DATE REVISED:** February 17, 2012
CHECKED BY: T. Ross	**DATE CHECKED:** February 17, 2012
APPROVED BY: E. McNally	**DATE APPROVED:** March 9, 2012

AES
Animas Environmental Services, LLC

FIGURE 1

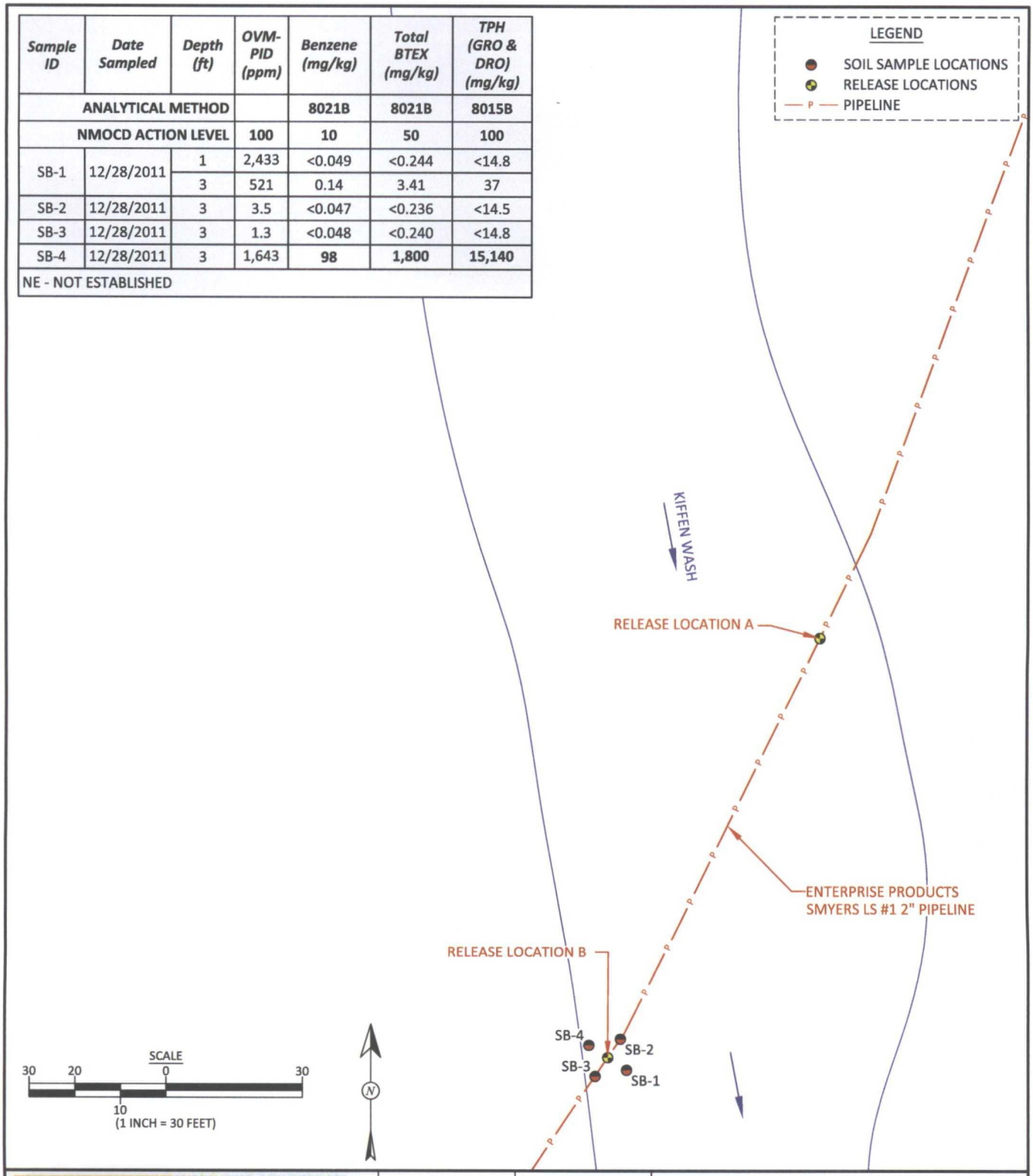
TOPOGRAPHIC SITE LOCATION MAP
ENTERPRISE PRODUCTS COMPANY
SMYERS LS #1 RELEASE LOCATION
SAN JUAN COUNTY, NEW MEXICO
SW¼, SW¼, SEC. 2, T31N, R11W
N36.9234, W107.96485



Animas Environmental Services, LLC

DRAWN BY: N. Willis	**DATE DRAWN:** December 30, 2011	**FIGURE 2**
REVISIONS BY: C. Lameman	**DATE REVISED:** February 17, 2012	**AERIAL SITE LOCATION MAP** ENTERPRISE PRODUCTS COMPANY SMYERS LS #1 RELEASE LOCATION SAN JUAN COUNTY, NEW MEXICO SW¼, SW¼, SEC. 2, T31N, R11W N36.9234, W107.96485
CHECKED BY: T. Long	**DATE CHECKED:** January 9, 2012	
APPROVED BY: E. McNally	**DATE APPROVED:** March 9, 2012	

Sample ID	Date Sampled	Depth (ft)	OVM-PID (ppm)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH (GRO & DRO) (mg/kg)
ANALYTICAL METHOD				8021B	8021B	8015B
NMOCD ACTION LEVEL			100	10	50	100
SB-1	12/28/2011	1	2,433	<0.049	<0.244	<14.8
		3	521	0.14	3.41	37
SB-2	12/28/2011	3	3.5	<0.047	<0.236	<14.5
SB-3	12/28/2011	3	1.3	<0.048	<0.240	<14.8
SB-4	12/28/2011	3	1,643	98	1,800	15,140
NE - NOT ESTABLISHED						



Animas Environmental Services, LLC

DRAWN BY: N. Willis	DATE DRAWN: December 30, 2011
REVISIONS BY: C. Lameman	DATE REVISED: February 17, 2012
CHECKED BY: T. Ross	DATE CHECKED: February 17, 2012
APPROVED BY: E. McNally	DATE APPROVED: March 9, 2012

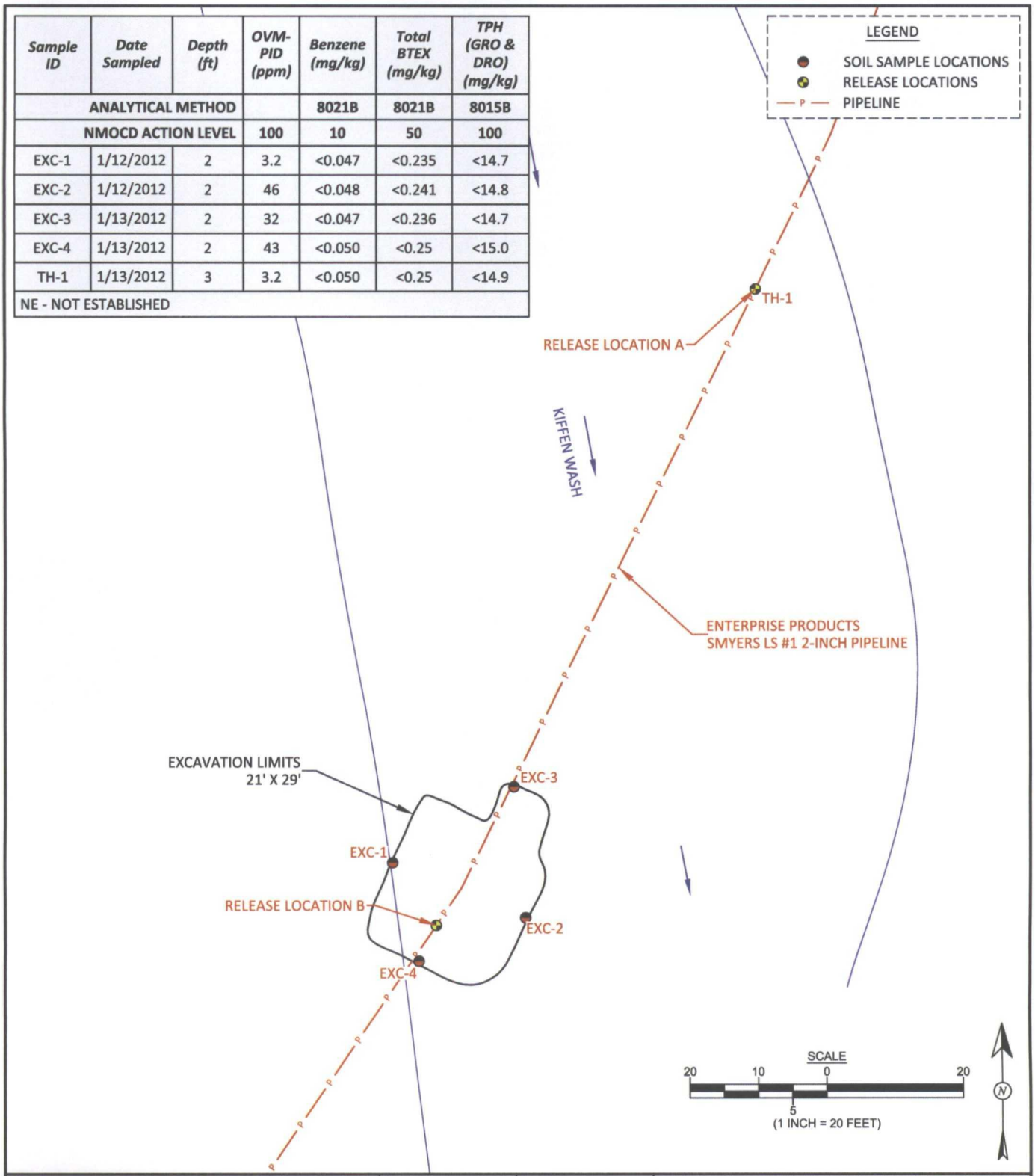
FIGURE 3

SOIL BORING LOCATIONS AND SOIL SAMPLE RESULTS, DECEMBER 2011

ENTERPRISE PRODUCTS COMPANY
SMYERS LS #1 RELEASE LOCATION
SAN JUAN COUNTY, NEW MEXICO
SW¼, SW¼, SEC. 2, T31N, R11W
N36.9234, W107.96485

Sample ID	Date Sampled	Depth (ft)	OVM-PID (ppm)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH (GRO & DRO) (mg/kg)
ANALYTICAL METHOD				8021B	8021B	8015B
NMOCD ACTION LEVEL			100	10	50	100
EXC-1	1/12/2012	2	3.2	<0.047	<0.235	<14.7
EXC-2	1/12/2012	2	46	<0.048	<0.241	<14.8
EXC-3	1/13/2012	2	32	<0.047	<0.236	<14.7
EXC-4	1/13/2012	2	43	<0.050	<0.25	<15.0
TH-1	1/13/2012	3	3.2	<0.050	<0.25	<14.9

NE - NOT ESTABLISHED



Animas Environmental Services, LLC

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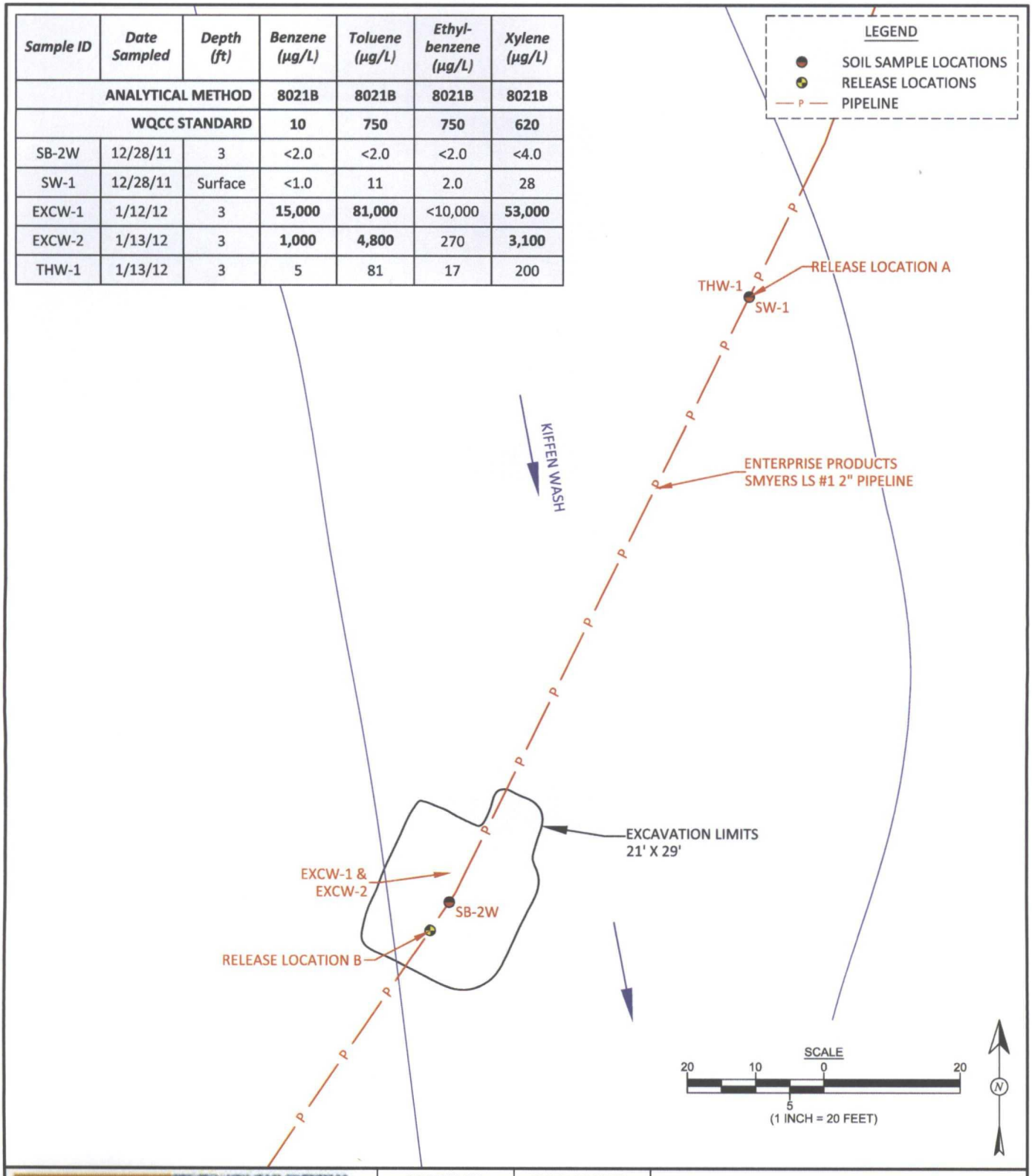
CHECKED BY: T. Ross	DATE CHECKED: February 17, 2012
APPROVED BY: E. McNally	DATE APPROVED: March 9, 2012

FIGURE 4

EXCAVATION LOCATION AND SOIL SAMPLE RESULTS, JANUARY 2012
ENTERPRISE PRODUCTS COMPANY
SMYERS LS #1 RELEASE LOCATION
SAN JUAN COUNTY, NEW MEXICO
SW¼, SW¼, SEC. 2, T31N, R11W
N36.9234, W107.96485

Sample ID	Date Sampled	Depth (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylene (µg/L)
ANALYTICAL METHOD			8021B	8021B	8021B	8021B
WQCC STANDARD			10	750	750	620
SB-2W	12/28/11	3	<2.0	<2.0	<2.0	<4.0
SW-1	12/28/11	Surface	<1.0	11	2.0	28
EXCW-1	1/12/12	3	**15,000**	**81,000**	<10,000	**53,000**
EXCW-2	1/13/12	3	**1,000**	**4,800**	270	**3,100**
THW-1	1/13/12	3	5	81	17	200



Animas Environmental Services, LLC

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APPROVED BY: E. McNally	**DATE APPROVED:** March 9, 2012

FIGURE 5

GROUNDWATER SAMPLE LOCATIONS AND ANALYTICAL RESULTS DECEMBER 2011 AND JANUARY 2012

ENTERPRISE PRODUCTS COMPANY
SMYERS LS #1 RELEASE LOCATION
SAN JUAN COUNTY, NEW MEXICO
SW¼, SW¼, SEC. 2, T31N, R11W
N36.9234, W107.96485

Photo #1	
Client: Enterprise Products Company	
Project: Smyers LS #1 Release	
Taken by: Tom Long	
December 28, 2011	
AES Project No: 111238	Description: View of the pipeline and Release Point A. View to the northeast.

Photo #2	
Client: Enterprise Products Company	
Project: Smyers LS #1 Release	
Taken by: Tom Long	
December 28, 2011	
AES Project No: 111238	Description: View of one of the ruptures in the pipeline.

Photo #3	
Client: Enterprise Products Company	
Project: Smyers LS #1 Release	
Taken by: Tom Long	
December 28, 2011	
AES Project No: 111238	Description: View of the pipeline and Release Point B. View to the southwest.

Photo #4	
Client: Enterprise Products Company	
Project: Smyers LS #1 Release	
Taken by: Tom Long	
December 28, 2011	
AES Project No: 111238	Description: View of a soil boring that was hand augured near Release Point B.

Photo #5	
Client: Enterprise Products Company	
Project: Smyers LS #1 Release	
Taken by: Tom Long	
December 28, 2011	
AES Project No: 111238	Description: View of Release Point A.

Photo #6	
Client: Enterprise Products Company	
Project: Smyers LS #1 Release	
Taken by: Tom Long	
December 28, 2011	
AES Project No: 111238	Description: View of a barrel placed in the wash to capture fluids from Release Point A.

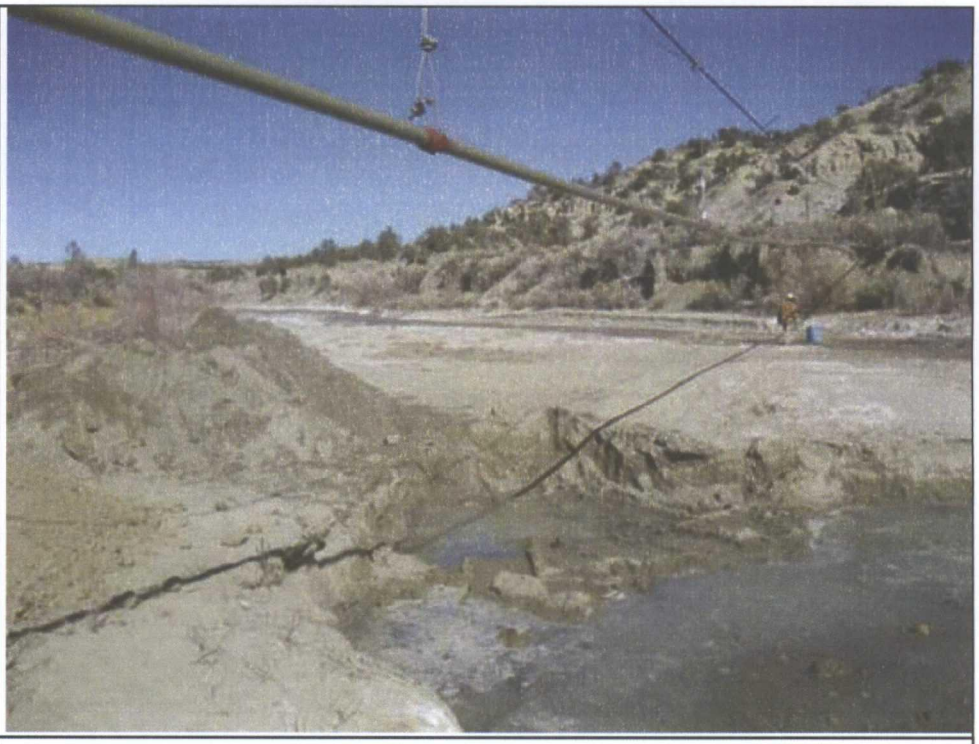
Photo #7	
Client: Enterprise Products Company	
Project: Smyers LS #1 Release	
Taken by: Tom Long	
January 12, 2012	
AES Project No: 111238	Description: View of the excavation activities associated with Release Point B.

Photo #8	
Client: Enterprise Products Company	
Project: Smyers LS #1 Release	
Taken by: Tom Long	
January 12, 2012	
AES Project No: 111238	Description: View of the excavation activities for Release Point B.

Photo #9	
Client: Enterprise Products Company	
Project: Smyers LS #1 Release	
Taken by: Tom Long	
January 12, 2012	
AES Project No: 111238	Description: View of the excavation for Release Point B.

Photo #10	
Client: Enterprise Products Company	
Project: Smyers LS #1 Release	
Taken by: Tom Long	
January 12, 2012	
AES Project No: 111238	Description: View of the excavation for Release Point B.

Photo #11	
Client: Enterprise Products Company	
Project: Smyers LS #1 Release	
Taken by: Tom Long	
January 13, 2012	
AES Project No: 111238	Description: View of the excavation for Release Point B.

Photo #12	
Client: Enterprise Products Company	
Project: Smyers LS #1 Release	
Taken by: Tom Long	
January 13, 2012	
AES Project No: 111238	Description: View of the excavation for Release Point B.

Industrial Ecosystems Inc.
Soil Reclamation Center

P.O. Box 2043
Farmington NM 87499

Phone: (505) 632-1782
Fax: (505) 632-1876

#49 CR 3150
Aztec NM 87410

B

Material Entry Record

Date: 1-13-12

Company Representatives Name: Aaron Daily

Generator of Material: Enterprise

Phone Number: _____

Origin of Material (Location): Snyders LS #1

Rig # 2

Material Transported by: Swagger Kelly Field

Driver's Name: Clay - Robert

Driver's Cell #: _____

Truck Number: 001, 211

Pile Number: _____

☐ Logged in Corresponding BioPile Sheet

H2S Gas ☐ Non-Detect ☐ Detect: Level ____

____ Chlorides ____ PH ____ TDS

Paint Filter Test: ☐ Passed ☐ Failed

☐ DENIED / REJECTED

☐ Pit ☐ Tanks
Mud

Type of Material

Soil		Tank Bottom Sludge	
Gravel		Tank Cleaning Residue	
Solidified Liquid		Charcoal Filter Media	
Other _____		Washout by: _____	

Amount of Material

	Load #1	Load #2	Load #3	Load #4	Load #5	Load #6	Load #7	Load #8	Load #9	Load #10
Cubic Yards		12	10	10	10	10	10	10	8	
~~Barrels~~ VS	10	10	10	10	10	10	10	10	10	
Washout										
Truck #	001	211	001	211	001	211	001	211	001	
Time In	8:10	9:42	10:00	11:05	11:35	1:05	1:12	2:37	2:40	
Time Out	8:20	10:00	10:15	11:22	11:52	1:30	1:35	2:47	3:06	
Login Initials										

Exempt	XXX
Non Exempt	

90 cy VS

I certify that the quantity and type of waste is that listed above. To the best of my knowledge, no other quantities or types of wastes have been added or removed.

Driver's signature: Clay Swagger Robert Aaron

Attendant's Signature: _____

80 cy

*Attach copy of test results to C-138/COW

Industrial Ecosystems Inc.
Soil Reclamation Center

P.O. Box 2043
Farmington NM 87499

Phone: (505) 632-1782
Fax: (505) 632-1876

#49 CR 3150
Aztec NM 87410

12

Material Entry Record

Date: 1-12-12

Company Representatives Name: Aaron Dailey

Generator of Material: Enterprise

Phone Number: _____

Origin of Material (Location): Smyers LS #1

Rig # _____

Material Transported by: Sunfield Services

H2S Gas ☑ Non-Detect ☐ Detect: Level ____

Driver's Name: Steve Maestas, Clay Arreazola

Driver's Cell #: _____

Truck Number: 216, 001

Pile Number: _____

☐ Logged in Corresponding BioPile Sheet

22 Chlorides 6 PH ____ TDS

Paint Filter Test: ☑ Passed ☐ Failed

☐ Pit ☐ Tanks

☐ DENIED / REJECTED

Mud

Type of Material

Soil	XX	Tank Bottom Sludge	
Gravel		Tank Cleaning Residue	
Solidified Liquid		Charcoal Filter Media	
Other	_____	Washout by: _____	

Amount of Material

	Load #1	Load #2	Load #3	Load #4	Load #5	Load #6	Load #7	Load #8	Load #9	Load #10
Cubic Yards	5	5	12	5	10	5	10			
~~Barrels~~ VS					10					
Washout										
Truck #	216	216	001	216	001	216	001			
Time In	10:26A	12:20P	12:45p	1:45	2:16p	3:30	3:51p			
Time Out	10:35	12:24	12:55p	1:55	2:35p	3:50	4:10p			
Login Initials						RA				

Exempt	XXX
Non Exempt	

52 cy cont.
10 cy V.S.

I certify that the quantity and type of waste is that listed above. To the best of my knowledge, no other quantities or types of wastes have been added or removed.

Driver's signature: Steve Maestas, Clay Arreazola, Clay

Attendant's Signature: _____

**Attach copy of test results to C-138/COW*

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

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

Form C-138
Revised 08/01/11

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

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

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

2. Originating Site:
Smyers LS #1 at Kiffen Wash

3. Location of Material (Street Address, City, State or ULSTR):
SW/4 of Section 2, T31N, R 11W, NMPM, San Juan County, NM

4. Source and Description of Waste:
Source: Natural gas gathering line split
Description: Exempt condensate stained soil collected from soil remediation location
Estimated Volume __20__ yd^3 / bbls Known Volume (to be entered by the operator at the end of the haul) _____ yd^3 / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

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

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

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

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

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

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

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

5. Transporter: Southwest Field Services—Contact Ken Maestas at (505)320-3867

OCD Permitted Surface Waste Management Facility

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

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

Method of Treatment and/or Disposal:

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

Waste Acceptance Status:

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

PRINT NAME: _____ TITLE: _____ DATE: _____

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

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Thursday, January 05, 2012

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

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

RE: Enterprise Smyers LS #1

Order No.: 1112A06

Dear Tami Ross:

Hall Environmental Analysis Laboratory, Inc. received 7 sample(s) on 12/29/2011 for the analyses presented in the following report.

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

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

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Jan-12*

Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	SB-1@3'
Lab Order:	1112A06	**Collection Date:**	12/28/2011 2:20:00 PM
Project:	Enterprise Smyers LS #1	**Date Received:**	12/29/2011
Lab ID:	1112A06-01	**Matrix:**	SOLID

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/3/2012 10:44:31 AM
Surr: DNOP	86.5	77.4-131		%REC	1	1/3/2012 10:44:31 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	37	4.9		mg/Kg	1	1/3/2012 1:28:27 PM
Surr: BFB	121	69.7-121		%REC	1	1/3/2012 1:28:27 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	0.14	0.049		mg/Kg	1	1/3/2012 1:28:27 PM
Toluene	1.1	0.049		mg/Kg	1	1/3/2012 1:28:27 PM
Ethylbenzene	0.17	0.049		mg/Kg	1	1/3/2012 1:28:27 PM
Xylenes, Total	2.0	0.097		mg/Kg	1	1/3/2012 1:28:27 PM
Surr: 4-Bromofluorobenzene	107	80-120		%REC	1	1/3/2012 1:28:27 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Jan-12*

Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	SB-2@3'
Lab Order:	1112A06	**Collection Date:**	12/28/2011 2:16:00 PM
Project:	Enterprise Smyers LS #1	**Date Received:**	12/29/2011
Lab ID:	1112A06-02	**Matrix:**	SOLID

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/3/2012 12:27:57 PM
Surr: DNOP	87.8	77.4-131		%REC	1	1/3/2012 12:27:57 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/3/2012 2:28:46 PM
Surr: BFB	96.2	69.7-121		%REC	1	1/3/2012 2:28:46 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.047		mg/Kg	1	1/3/2012 2:28:46 PM
Toluene	ND	0.047		mg/Kg	1	1/3/2012 2:28:46 PM
Ethylbenzene	ND	0.047		mg/Kg	1	1/3/2012 2:28:46 PM
Xylenes, Total	ND	0.095		mg/Kg	1	1/3/2012 2:28:46 PM
Surr: 4-Bromofluorobenzene	95.6	80-120		%REC	1	1/3/2012 2:28:46 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Jan-12*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	SB-1@1'
Lab Order:	1112A06	**Collection Date:**	12/28/2011 2:22:00 PM
Project:	Enterprise Smyers LS #1	**Date Received:**	12/29/2011
Lab ID:	1112A06-03	**Matrix:**	SOLID

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/3/2012 1:02:43 PM
Surr: DNOP	81.4	77.4-131		%REC	1	1/3/2012 1:02:43 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/3/2012 2:59:08 PM
Surr: BFB	92.9	69.7-121		%REC	1	1/3/2012 2:59:08 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.049		mg/Kg	1	1/3/2012 2:59:08 PM
Toluene	ND	0.049		mg/Kg	1	1/3/2012 2:59:08 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/3/2012 2:59:08 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/3/2012 2:59:08 PM
Surr: 4-Bromofluorobenzene	94.5	80-120		%REC	1	1/3/2012 2:59:08 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Jan-12*

Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	SB-3@3'
Lab Order:	1112A06	**Collection Date:**	12/28/2011 2:42:00 PM
Project:	Enterprise Smyers LS #1	**Date Received:**	12/29/2011
Lab ID:	1112A06-04	**Matrix:**	SOLID

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/3/2012 1:36:50 PM
Surr: DNOP	86.3	77.4-131		%REC	1	1/3/2012 1:36:50 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/3/2012 3:29:21 PM
Surr: BFB	78.8	69.7-121		%REC	1	1/3/2012 3:29:21 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.048		mg/Kg	1	1/3/2012 3:29:21 PM
Toluene	ND	0.048		mg/Kg	1	1/3/2012 3:29:21 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/3/2012 3:29:21 PM
Xylenes, Total	ND	0.096		mg/Kg	1	1/3/2012 3:29:21 PM
Surr: 4-Bromofluorobenzene	82.7	80-120		%REC	1	1/3/2012 3:29:21 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Jan-12*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	SB4@3'
Lab Order:	1112A06	**Collection Date:**	12/28/2011 3:00:00 PM
Project:	Enterprise Smyers LS #1	**Date Received:**	12/29/2011
Lab ID:	1112A06-05	**Matrix:**	SOLID

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	140	10		mg/Kg	1	1/3/2012 2:10:58 PM
Surr: DNOP	98.4	77.4-131		%REC	1	1/3/2012 2:10:58 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	15000	250		mg/Kg	50	1/3/2012 3:59:42 PM
Surr: BFB	188	69.7-121	S	%REC	50	1/3/2012 3:59:42 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	98	2.5		mg/Kg	50	1/3/2012 3:59:42 PM
Toluene	800	20		mg/Kg	400	1/4/2012 7:22:33 PM
Ethylbenzene	84	2.5		mg/Kg	50	1/3/2012 3:59:42 PM
Xylenes, Total	810	40		mg/Kg	400	1/4/2012 7:22:33 PM
Surr: 4-Bromofluorobenzene	117	80-120		%REC	50	1/3/2012 3:59:42 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Jan-12*

Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	SB-2W
Lab Order:	1112A06	**Collection Date:**	12/28/2011 2:40:00 PM
Project:	Enterprise Smyers LS #1	**Date Received:**	12/29/2011
Lab ID:	1112A06-06	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	2.0		µg/L	2	1/3/2012 2:14:52 PM
Toluene	ND	2.0		µg/L	2	1/3/2012 2:14:52 PM
Ethylbenzene	ND	2.0		µg/L	2	1/3/2012 2:14:52 PM
Xylenes, Total	ND	4.0		µg/L	2	1/3/2012 2:14:52 PM
Surr: 4-Bromofluorobenzene	102	76.5-115		%REC	2	1/3/2012 2:14:52 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Jan-12*

Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Wash Water South of 2nd Bucket
Lab Order:	1112A06	**Collection Date:**	12/28/2011 3:30:00 PM
Project:	Enterprise Smyers LS #1	**Date Received:**	12/29/2011
Lab ID:	1112A06-07	**Matrix:**	AQUEOUS

(SW-1) (Comp)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	1.0		µg/L	1	1/3/2012 3:12:43 PM
Toluene	11	1.0		µg/L	1	1/3/2012 3:12:43 PM
Ethylbenzene	2.0	1.0		µg/L	1	1/3/2012 3:12:43 PM
Xylenes, Total	28	2.0		µg/L	1	1/3/2012 3:12:43 PM
Surr: 4-Bromofluorobenzene	103	76.5-115		%REC	1	1/3/2012 3:12:43 PM

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: Enterprise Smyers LS #1 **Work Order:** 1112A06

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8016B: Diesel Range Organics											
Sample ID: 1112A06-01AMSD		*MSD*				Batch ID: 29922		Analysis Date: 1/3/2012 11:53:33 AM			
Diesel Range Organics (DRO)	45.23	mg/Kg	10	49.9	0	90.7	57.2	146	7.89	26.7	
Sample ID: MB-29922		*MBLK*				Batch ID: 29922		Analysis Date: 1/3/2012 9:36:00 AM			
Diesel Range Organics (DRO)	ND	mg/Kg	10								
Sample ID: LCS-29922		*LCS*				Batch ID: 29922		Analysis Date: 1/3/2012 10:10:08 AM			
Diesel Range Organics (DRO)	40.86	mg/Kg	10	50	0	81.7	62.7	139			
Sample ID: 1112A06-01AMS		*MS*				Batch ID: 29922		Analysis Date: 1/3/2012 11:19:11 AM			
Diesel Range Organics (DRO)	48.95	mg/Kg	10	51.92	0	94.3	57.2	146			
Method: EPA Method 8015B: Gasoline Range											
Sample ID: 1112A06-01AMSD		*MSD*				Batch ID: 29921		Analysis Date: 1/3/2012 11:32:16 PM			
Gasoline Range Organics (GRO)	48.00	mg/Kg	4.9	24.68	37.05	44.4	72.4	149	9.46	19.2	S
Sample ID: MB-29921		*MBLK*				Batch ID: 29921		Analysis Date: 1/3/2012 12:58:03 PM			
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0								
Sample ID: LCS-29921		*LCS*				Batch ID: 29921		Analysis Date: 1/3/2012 11:57:22 AM			
Gasoline Range Organics (GRO)	28.59	mg/Kg	5.0	25	0	114	86.4	132			
Sample ID: 1112A06-01AMS		*MS*				Batch ID: 29921		Analysis Date: 1/3/2012 11:02:17 PM			
Gasoline Range Organics (GRO)	52.76	mg/Kg	4.8	24.22	37.05	64.9	72.4	149			S
Method: EPA Method 8021B: Volatiles											
Sample ID: MB-29921		*MBLK*				Batch ID: 29921		Analysis Date: 1/3/2012 12:58:03 PM			
Benzene	ND	mg/Kg	0.050								
Toluene	ND	mg/Kg	0.050								
Ethylbenzene	ND	mg/Kg	0.050								
Xylenes, Total	ND	mg/Kg	0.10								
Sample ID: LCS-29921		*LCS*				Batch ID: 29921		Analysis Date: 1/3/2012 12:27:40 PM			
Benzene	1.021	mg/Kg	0.050	1	0.0047	102	80	120			
Toluene	0.9809	mg/Kg	0.050	1	0.0067	97.4	80	120			
Ethylbenzene	1.044	mg/Kg	0.050	1	0.0104	103	80	120			
Xylenes, Total	3.231	mg/Kg	0.10	3	0.0232	107	80	120			
Method: EPA Method 8021B: Volatiles											
Sample ID: 5ML-RB		*MBLK*				Batch ID: R49902		Analysis Date: 1/3/2012 12:48:22 PM			
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	2.0								
Sample ID: 100NG BTEX LCS		*LCS*				Batch ID: R49902		Analysis Date: 1/3/2012 12:19:32 PM			
Benzene	18.85	µg/L	1.0	20	0	94.2	80	120			
Toluene	19.39	µg/L	1.0	20	0.2666	95.6	80	120			
Ethylbenzene	19.10	µg/L	1.0	20	0	95.5	80	120			
Xylenes, Total	58.03	µg/L	2.0	60	0	96.7	78.6	121			

Qualifiers:

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

Chain-of-Custody Record

Client: AES

Mailing Address: 624 Comanche

Farmington, NM

Phone #: 505-564-2281

email or Fax#:

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

Accreditation
☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:
☑ Standard ☐ Rush

Project Name: Enterprise Symers LS #1

Project #: —

Project Manager: Tami Ross

Sampler: Thomas Long

On Ice: ☒ Yes ☐ No

Sample Temperature: 2.3

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 112406	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y or N)
12/28/11	1430	Soil	SB-1 @ 3'	4oz Jar	Ice	1	X		X									
	1416		SB-2 @ 3'			2	X		X									
	1422		SB-1 @ 1'			3	X		X									
	1442		SB-3 @ 3'			4	X		X									
	1500	↓	SB-4 @ 3'	↓	↓	5	X		X									
	1440	Water	SB-2W	3 VOAs	HCl	6	X											
↓	1530	↓	with water South of 3rd Bucket	↓	↓	7	X											

Date:	Time:	Relinquished by:	Received by:	Date	Time
12/28/11	1610	Thomas Long	Christine Walker	12/28/11	1610
12/29/11	1650	Christine Walker	Michelle Garcia	12/29/11	1435

Remarks: Bill To Enterprise

SB-2W ph > 2.0

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

Chain-of-Custody Record

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Client: AES

Mailing Address: 624 Comanche

Farming ton, NM

Phone #: 505-564-2281

email or Fax#:

QA/QC Package:

☑ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:

☑ Standard ☐ Rush

Project Name: Enterprise Smyers LS #1 (Smyers TSL JDL)

Project #: —

Project Manager: Tami Ross

Sampler: Thomas Long

On Ice: ☒ Yes ☐ No

Sample Temperature: 2.3

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1112406	BTEX + ~~MTBE~~ ~~TMBs~~ (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
12/28/11	1420	Soil	SB-1 @ 3'	4oz Jar	Ice	1	X		X													
	1416		SB-2 @ 3'			2	X		X													
	1422		SB-1 @ 1'			3	X		X													
	1442		SB-3 @ 3'			4	X		X													
	1500	↓	SB4 @ 3'	↓	↓	5	X		X													
	1440	Water	SB-2 @	3 VOAs	HCl	6	X															
↓	1530	↓	wash water South of the Bucket (SW-1)	↓	↓	7	X															

Remarks: Bill To Enterprise

SB-2W pH > 2.0

Date:	Time:	Relinquished by:	Received by:	Date	Time
12/28/11	1610	Thomas Long	Christine Walker	12/28/11	1610
12/29/11	650	Christine Walker	Michelle Garcia	12/29/11	1435

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

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

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

January 19, 2012

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

RE: Enterprise Smyers OrderNo.: 1201374

Dear Thomas Long:

Hall Environmental Analysis Laboratory received 3 sample(s) on 1/13/2012 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order 1201374
Date Reported: 1/19/2012

Hall Environmental Analysis Laboratory, Inc.

EXCN-1

CLIENT: Animas Environmental Services
Client Sample ID: WS-1 Excavation
Project: Enterprise Smyers
Collection Date: 1/12/2012 10:07:00 AM
Lab ID: 1201374-001
Matrix: AQUEOUS
Received Date: 1/13/2012 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **MMS**
Benzene	15,000	10,000		µg/L	10000	1/13/2012 1:06:22 PM
Toluene	81,000	10,000		µg/L	10000	1/13/2012 1:06:22 PM
Ethylbenzene	ND	10,000		µg/L	10000	1/13/2012 1:06:22 PM
Xylenes, Total	53,000	20,000		µg/L	10000	1/13/2012 1:06:22 PM
Surr: 1,2-Dichloroethane-d4	95.6	70-130		%REC	10000	1/13/2012 1:06:22 PM
Surr: 4-Bromofluorobenzene	102	73-131		%REC	10000	1/13/2012 1:06:22 PM
Surr: Dibromofluoromethane	88.1	70-130		%REC	10000	1/13/2012 1:06:22 PM
Surr: Toluene-d8	105	70-130		%REC	10000	1/13/2012 1:06:22 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

EXC-2 (BR)

CLIENT: Animas Environmental Services
Client Sample ID: S-17
Project: Enterprise Smyers
Collection Date: 1/12/2012 2:18:00 PM
Lab ID: 1201374-002 **Matrix:** SOIL **Received Date:** 1/13/2012 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/15/2012 10:44:52 AM
Surr: DNOP	86.6	77.4-131		%REC	1	1/15/2012 10:44:52 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/17/2012 3:49:14 PM
Surr: BFB	102	69.7-121		%REC	1	1/17/2012 3:49:14 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.048		mg/Kg	1	1/16/2012 3:10:34 PM
Toluene	ND	0.048		mg/Kg	1	1/16/2012 3:10:34 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/16/2012 3:10:34 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/16/2012 3:10:34 PM
Surr: 4-Bromofluorobenzene	103	85.3-139		%REC	1	1/16/2012 3:10:34 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

EXC. 1

CLIENT: Animas Environmental Services
Client Sample ID: S-16
Project: Enterprise Smyers
Collection Date: 1/12/2012 2:20:00 PM
Lab ID: 1201374-003
Matrix: SOIL
Received Date: 1/13/2012 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/15/2012 11:18:29 AM
Surr: DNOP	85.0	77.4-131		%REC	1	1/15/2012 11:18:29 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/17/2012 5:49:58 PM
Surr: BFB	101	69.7-121		%REC	1	1/17/2012 5:49:58 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.047		mg/Kg	1	1/16/2012 3:39:28 PM
Toluene	ND	0.047		mg/Kg	1	1/16/2012 3:39:28 PM
Ethylbenzene	ND	0.047		mg/Kg	1	1/16/2012 3:39:28 PM
Xylenes, Total	ND	0.094		mg/Kg	1	1/16/2012 3:39:28 PM

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1201374

19-Jan-12

Client: Animas Environmental Services

Project: Enterprise Smyers

Sample ID MB-255	SampType: MBLK	TestCode: EPA Method 8015B: Diesel Range Organics
Client ID: PBS	Batch ID: 255	RunNo: 379
Prep Date: 1/13/2012	Analysis Date: 1/14/2012	SeqNo: 11238 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	9.0		10.00		89.9	77.4	131			

Sample ID LCS-255	SampType: LCS	TestCode: EPA Method 8015B: Diesel Range Organics
Client ID: LCSS	Batch ID: 255	RunNo: 379
Prep Date: 1/13/2012	Analysis Date: 1/14/2012	SeqNo: 11239 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	37	10	50.00	0	74.2	62.7	139			
Surr: DNOP	4.7		5.000		94.2	77.4	131			

Qualifiers:

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

QC SUMMARY REPORT

WO#: 1201374

Hall Environmental Analysis Laboratory, Inc.

19-Jan-12

Client: Animas Environmental Services
Project: Enterprise Smyers

Sample ID MB-257	SampType: MBLK	TestCode: EPA Method 8015B: Gasoline Range
Client ID: PBS	Batch ID: 257	RunNo: 429
Prep Date: 1/13/2012	Analysis Date: 1/17/2012	SeqNo: 12419 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	810		1,000		80.9	69.7	121			

Sample ID LCS-257	SampType: LCS	TestCode: EPA Method 8015B: Gasoline Range
Client ID: LCSS	Batch ID: 257	RunNo: 429
Prep Date: 1/13/2012	Analysis Date: 1/17/2012	SeqNo: 12423 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	109	86.4	132			
Surr: BFB	900		1,000		89.8	69.7	121			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1201374

19-Jan-12

Client: Animas Environmental Services

Project: Enterprise Smyers

Sample ID MB-257	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles
Client ID: PBS	Batch ID: 257	RunNo: 411
Prep Date: 1/13/2012	Analysis Date: 1/16/2012	SeqNo: 12116 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		102	85.3	139			

Sample ID LCS-257	SampType: LCS	TestCode: EPA Method 8021B: Volatiles
Client ID: LCSS	Batch ID: 257	RunNo: 411
Prep Date: 1/13/2012	Analysis Date: 1/16/2012	SeqNo: 12119 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.050	1.000	0	95.4	83.3	107			
Toluene	0.98	0.050	1.000	0	97.9	74.3	115			
Ethylbenzene	0.98	0.050	1.000	0	97.9	80.9	122			
Xylenes, Total	2.9	0.10	3.000	0	96.4	85.2	123			
Surr: 4-Bromofluorobenzene	1.1		1.000		105	85.3	139			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1201374

19-Jan-12

Client: Animas Environmental Services

Project: Enterprise Smyers

Sample ID 5ml rb	SampType: MBLK	TestCode: EPA Method 8260: Volatiles Short List
Client ID: PBW	Batch ID: R365	RunNo: 365
Prep Date:	Analysis Date: 1/13/2012	SeqNo: 10979 Units: µg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 1,2-Dichloroethane-d4	9.5		10.00		95.2	70	130			
Surr: 4-Bromofluorobenzene	9.8		10.00		98.1	73	131			
Surr: Dibromofluoromethane	8.9		10.00		89.0	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Sample ID 100ng lcs	SampType: LCS	TestCode: EPA Method 8260: Volatiles Short List
Client ID: LCSW	Batch ID: R365	RunNo: 365
Prep Date:	Analysis Date: 1/13/2012	SeqNo: 10980 Units: µg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	96.9	85.2	121			
Toluene	21	1.0	20.00	0	107	88.3	121			
Surr: 1,2-Dichloroethane-d4	9.2		10.00		91.6	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	73	131			
Surr: Dibromofluoromethane	8.5		10.00		85.2	70	130			
Surr: Toluene-d8	11		10.00		107	70	130			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Animas Environmental — Work Order Number: 1201374

Logged by: Michelle Garcia — 1/13/2012 8:50:00 AM — Michelle Garcia

Completed By: Michelle Garcia — 1/13/2012 9:08:51 AM — Michelle Garcia

Reviewed By: JA 1/13/2012

Chain of Custody

1. Were seals intact? — Yes ☐ No ☐ Not Present ☑
2. Is Chain of Custody complete? — Yes ☑ No ☐ Not Present ☐
3. How was the sample delivered? — FedEx

Log In

4. Coolers are present? (see 19. for cooler specific information) — Yes ☑ No ☐ NA ☐
5. Was an attempt made to cool the samples? — Yes ☑ No ☐ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C — Yes ☑ No ☐ NA ☐
7. Sample(s) in proper container(s)? — Yes ☑ No ☐
8. Sufficient sample volume for indicated test(s)? — Yes ☑ No ☐
9. Are samples (except VOA and ONG) properly preserved? — Yes ☑ No ☐
10. Was preservative added to bottles? — Yes ☐ No ☑ NA ☐
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? — Yes ☐ No ☐ No VOA Vials ☑
12. Were any sample containers received broken? — Yes ☐ No ☑
13. Does paperwork match bottle labels? (Note discrepancies on chain of custody) — Yes ☑ No ☐
14. Are matrices correctly identified on Chain of Custody? — Yes ☑ No ☐
15. Is it clear what analyses were requested? — Yes ☑ No ☐
16. Were all holding times able to be met? (If no, notify customer for authorization.) — Yes ☑ No ☐

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? — Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

18. Additional remarks:

19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.9	Good	Yes			

Chain-of-Custody Record

Client: Animas Env. Services

Mailing Address: 624 E. Comanche
Farmington, NM 87401

Phone #: 505-564-2281

email or Fax#: ~~tlong~~ tlong@animasenvironmental.com

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

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time: Same Day water Sample ONLY
☑ Standard ☑ Rush

Project Name: Enterprise Smyers LS #1

Project #:

Project Manager: Thomas Long

Sampler: Thomas Long

On Ice: ☑ Yes ☐ No

Sample Temperature: 1.9°

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1203714	Analysis Request: BTEX + ~~MTBE + TMB's~~ (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y or N)
			EXCAV-1 @ 4'															
1/12/12	1007	water	WS-1 Excavation	3 VOA's	HCl	1	X											
↓	1418	Soil	S-17 (EXC-2) @ 4'	4 oz Jar	Ice	2	X		X									
↓	1430	↓	S-16 (EXC-1) @ 4' 1/13/12	↓	↓	3	X		X									

Date	Time	Relinquished by	Received by	Date	Time
1/12/12	1503	Thomas Long	Christine Walters	1/12/12	1503
1/12/12	1617	Christine Walters	Michelle Garcia	1/13/12	8:50

Remarks: Bill to Enterprise Products
Thank You

Visited Sample

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

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

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

January 23, 2012

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

RE: Smyers LS#1 OrderNo.: 1201467

Dear Thomas Long:

Hall Environmental Analysis Laboratory received 5 sample(s) on 1/17/2012 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

EXC-3

CLIENT: Animas Environmental Services
Project: Smyers LS#1
Lab ID: 1201467-001
Matrix: SOIL
Client Sample ID: S-20
Collection Date: 1/13/2012 10:40:00 AM
Received Date: 1/17/2012 2:35:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/20/2012 8:39:51 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/20/2012 8:39:51 AM
Surr: DNOP	122	77.4-131		%REC	1	1/20/2012 8:39:51 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/19/2012 1:47:28 PM
Surr: BFB	92.3	69.7-121		%REC	1	1/19/2012 1:47:28 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.047		mg/Kg	1	1/19/2012 1:47:28 PM
Toluene	ND	0.047		mg/Kg	1	1/19/2012 1:47:28 PM
Ethylbenzene	ND	0.047		mg/Kg	1	1/19/2012 1:47:28 PM
Xylenes, Total	ND	0.095		mg/Kg	1	1/19/2012 1:47:28 PM
Surr: 4-Bromofluorobenzene	98.3	85.3-139		%REC	1	1/19/2012 1:47:28 PM

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Project: Smyers LS#1
Lab ID: 1201467-002 **Matrix:** SOIL

Client Sample ID: S-21 Exc-4
Collection Date: 1/13/2012 11:22:00 AM
Received Date: 1/17/2012 2:35:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/20/2012 11:31:52 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/20/2012 11:31:52 AM
Surr: DNOP	126	77.4-131		%REC	1	1/20/2012 11:31:52 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/19/2012 2:16:17 PM
Surr: BFB	92.6	69.7-121		%REC	1	1/19/2012 2:16:17 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.050		mg/Kg	1	1/19/2012 2:16:17 PM
Toluene	ND	0.050		mg/Kg	1	1/19/2012 2:16:17 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/19/2012 2:16:17 PM
Xylenes, Total	ND	0.10		mg/Kg	1	1/19/2012 2:16:17 PM
Surr: 4-Bromofluorobenzene	99.9	85.3-139		%REC	1	1/19/2012 2:16:17 PM

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: TH-1
Project: Smyers LS#1
Collection Date: 1/13/2012 11:40:00 AM
Lab ID: 1201467-003
Matrix: SOIL
Received Date: 1/17/2012 2:35:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/20/2012 12:06:32 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/20/2012 12:06:32 PM
Surr: DNOP	128	77.4-131		%REC	1	1/20/2012 12:06:32 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/19/2012 2:45:11 PM
Surr: BFB	92.0	69.7-121		%REC	1	1/19/2012 2:45:11 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.050		mg/Kg	1	1/19/2012 2:45:11 PM
Toluene	ND	0.050		mg/Kg	1	1/19/2012 2:45:11 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/19/2012 2:45:11 PM
Xylenes, Total	ND	0.10		mg/Kg	1	1/19/2012 2:45:11 PM
Surr: 4-Bromofluorobenzene	97.7	85.3-139		%REC	1	1/19/2012 2:45:11 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: TH-1w
Project: Smyers LS#1
Collection Date: 1/13/2012 11:38:00 AM
Lab ID: 1201467-004
Matrix: AQUEOUS
Received Date: 1/17/2012 2:35:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	5.1	1.0		µg/L	1	1/19/2012 2:16:28 PM
Toluene	81	1.0		µg/L	1	1/19/2012 2:16:28 PM
Ethylbenzene	17	1.0		µg/L	1	1/19/2012 2:16:28 PM
Xylenes, Total	200	2.0		µg/L	1	1/19/2012 2:16:28 PM
Surr: 4-Bromofluorobenzene	110	76.5-115		%REC	1	1/19/2012 2:16:28 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.

EXCH-2

CLIENT: Animas Environmental Services
Client Sample ID: Main Excavation water sample
Project: Smyers LS#1
Collection Date: 1/13/2012 11:42:00 AM
Lab ID: 1201467-005 **Matrix:** AQUEOUS **Received Date:** 1/17/2012 2:35:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	1,000	50		µg/L	50	1/20/2012 1:51:38 AM
Toluene	4,800	50		µg/L	50	1/20/2012 1:51:38 AM
Ethylbenzene	270	50		µg/L	50	1/20/2012 1:51:38 AM
Xylenes, Total	3,100	100		µg/L	50	1/20/2012 1:51:38 AM
Surr: 4-Bromofluorobenzene	105	76.5-115		%REC	50	1/20/2012 1:51:38 AM

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1201467

23-Jan-12

Client: Animas Environmental Services

Project: Smyers LS#1

Sample ID MB-348	SampType: MBLK	TestCode: EPA Method 8015B: Diesel Range Organics
Client ID: PBS	Batch ID: 348	RunNo: 471
Prep Date: 1/19/2012	Analysis Date: 1/20/2012	SeqNo: 13532 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	13		10.00		131	77.4	131			

Sample ID LCS-348	SampType: LCS	TestCode: EPA Method 8015B: Diesel Range Organics
Client ID: LCSS	Batch ID: 348	RunNo: 471
Prep Date: 1/19/2012	Analysis Date: 1/20/2012	SeqNo: 13599 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	39	10	50.00	0	78.0	62.7	139			
Surr: DNOP	6.2		5.000		123	77.4	131			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

W()#: 1201467

23-Jan-12

Client: Animas Environmental Services

Project: Smyers LS#1

Sample ID MB-338	SampType: MBLK	TestCode: EPA Method 8015B: Gasoline Range							
Client ID: PBS	Batch ID: 338	RunNo: 481							
Prep Date: 1/18/2012	Analysis Date: 1/19/2012	SeqNo: 13802			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	920		1,000		92.3	69.7	121			

Sample ID LCS-338	SampType: LCS	TestCode: EPA Method 8015B: Gasoline Range							
Client ID: LCSS	Batch ID: 338	RunNo: 481							
Prep Date: 1/18/2012	Analysis Date: 1/19/2012	SeqNo: 13806			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	115	86.4	132			
Surr: BFB	990		1,000		98.8	69.7	121			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1201467

23-Jan-12

Client: Animas Environmental Services

Project: Smyers LS#1

Sample ID MB-338	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles
Client ID: PBS	Batch ID: 338	RunNo: 481
Prep Date: 1/18/2012	Analysis Date: 1/19/2012	SeqNo: 13814 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.99		1.000		99.4	85.3	139			

Sample ID LCS-338	SampType: LCS	TestCode: EPA Method 8021B: Volatiles
Client ID: LCSS	Batch ID: 338	RunNo: 481
Prep Date: 1/18/2012	Analysis Date: 1/19/2012	SeqNo: 13818 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	101	83.3	107			
Toluene	1.0	0.050	1.000	0	99.9	74.3	115			
Ethylbenzene	1.0	0.050	1.000	0	100	80.9	122			
Xylenes, Total	3.0	0.10	3.000	0	101	85.2	123			
Surr: 4-Bromofluorobenzene	1.0		1.000		99.6	85.3	139			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1201467

23-Jan-12

Client: Animas Environmental Services

Project: Smyers LS#1

Sample ID 5ML-RB	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles							
Client ID: PBW	Batch ID: R480	RunNo: 480							
Prep Date:	Analysis Date: 1/19/2012	SeqNo: 13786	Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	20		20.00		100	76.5	115			

Sample ID 100NG BTEX LCS	SampType: LCS	TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSW	Batch ID: R480	RunNo: 480							
Prep Date:	Analysis Date: 1/19/2012	SeqNo: 13790	Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	102	80	120			
Toluene	20	1.0	20.00	0	98.8	80	120			
Ethylbenzene	19	1.0	20.00	0	95.0	80	120			
Xylenes, Total	58	2.0	60.00	0	96.8	78.6	121			
Surr: 4-Bromofluorobenzene	18		20.00		88.4	76.5	115			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name:	Animas Environmental	Work Order Number:	1201467
Logged by:	Michelle Garcia	1/17/2012 2:35:00 PM	Michelle Garcia
Completed By:	Michelle Garcia	1/17/2012 4:11:35 PM	Michelle Garcia
Reviewed By:	MG 1/18/12		

Chain of Custody

1. Were seals intact?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Courier		

Log In

4. Coolers are present? (see 19. for cooler specific information)	Yes ☑	No ☐	NA ☐
5. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
7. Sample(s) in proper container(s)?	Yes ☑	No ☐	
8. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
9. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
10. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm?	Yes ☐	No ☐	No VOA Vials ☑
12. Were any sample containers received broken?	Yes ☐	No ☑	
13. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	# of preserved bottles checked for pH:
14. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	(<2 or >12 unless noted)
15. Is it clear what analyses were requested?	Yes ☑	No ☐	Adjusted?
16. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	Checked by:

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☑ No ☐ NA ☐

Person Notified:	Thomas Long	Date:	1/18/2012
By Whom:		Via:	☐ eMail ☑ Phone ☐ Fax ☐ In Person
Regarding:	Sample Request ID for -003.		
Client Instructions:	ID on COC is correct. MG 1/18/12		

18. Additional remarks:

19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.4	Good	Yes			

Chain-of-Custody Record

Client: Animas Env. Services

Mailing Address: 624 E. Comanche

Farmington, NM 87401

Phone #: 505-564-2281

email or Fax#: ~~tracie~~ tlong@animasenvironmental.com

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

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☑ Standard ☐ Rush _____

Project Name: Snyders Ls #1

Project #:

Project Manager: Thomas Long

Sampler: Thomas Long

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.4

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

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1201407	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y or N)
1/13/12	1040	Soil	S-20 (EXC-3)	4oz Jar	ICE	-1	X		X									
	1122	↓	S-21 EXC-4	↓	↓	-2	X		X									
	1140	↓	TH-1	↓	HCl	-3	X		X									
	1138	water	TH-1W	3 VOA's		-4	X											
↓	1142	↓	Main Excavation Water Sample EXCN-2	↓	↓	-5	X											

Date:	Time:	Relinquished by:	Received by:	Date	Time
1/13/12	1330			1/13/12	1552
1/16/12	1649			01/17/12	1435

Remarks: Bill to Enterprise Products.

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