

3R - 442

REPORT

10 / 04 / 2012

Animas Environmental Services, LLC

3R-442

624 E. Comanche . Farmington, NM 87401 . TEL 505-564-2281 . FAX 505-324-2022 . www.animasenvironmental.com

October 4, 2012

Glenn von Gonten
New Mexico Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, New Mexico 87505

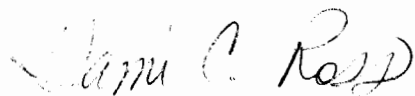
**Re: Initial Release Assessment and Mitigation Report
Lateral 2C-45 March 2012 Pipeline Release
Rio Arriba County, New Mexico**

Dear Mr. von Gonten:

Enclosed is the Initial Release Assessment and Mitigation Report prepared by Animas Environmental Services, LLC (AES) on behalf of Enterprise Products for the Lateral 2C-45 Pipeline Release located in Rio Arriba County, New Mexico.

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

Sincerely,



Tami C. Ross, CHMM
Project Manager

Attachments:
Initial Release Assessment and Mitigation Report

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

Brandon Powell
New Mexico Oil Conservation Division
1000 Rio Brazos Road
Aztec, New Mexico 87410





Animas Environmental Services, LLC

www.animasenvironmental.com

September 21, 2012

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

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

Durango, Colorado
970-403-3274

**RE: Initial Release Assessment and Mitigation Report
Lateral 2C-45 March 2012 Pipeline Release
Rio Arriba County, New Mexico**

Dear Mr. Dailey:

Animas Environmental Services, LLC (AES) has prepared this Initial Release Assessment and Mitigation Report, on behalf of Enterprise Products Company (Enterprise), which details the initial assessment of a natural gas and condensate release from the Lateral 2C-45 pipeline and the subsequent excavation of petroleum hydrocarbon contaminated soil (PCS). The release was discovered on March 31, 2012, and is located within Lapis Canyon wash in Rio Arriba County, New Mexico. The release was a result of pipeline corrosion.

1.0 Site Information

1.1 Location

Location - NW¼ SE¼, Section 24, T25N, R6W, Rio Arriba County, New Mexico

Latitude/Longitude - N36.38347 and W108.41676, respectively

Surface Owner – Federal (Bureau of Land Management)

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Location Map

1.2 NMOCD Ranking

In accordance with the New Mexico Oil Conservation Division (NMOCD) *Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993), the release location was assigned a ranking score to establish release action levels. The ranking score was obtained in part by reviewing available records of nearby oil/gas wells using the NMOCD online database. No records for nearby well locations with similar surface elevations were found to assist in determining NMOCD ranking. Additionally, the New Mexico Office of the State Engineer (NMOSE) database was reviewed for nearby private

domestic water wells, and no registered water wells were reported to be located within 1,000 feet of the location.

Google Earth and the New Mexico Tech Petroleum Recovery Research Center online mapping tool (<http://ford.nmt.edu/react/project.html>) were accessed to aid in the identification of downgradient surface water. Additionally, AES personnel assessed the NMOCD ranking criteria using topographical interpretation and visual reconnaissance on-site. The release location is within Lapis Wash, and groundwater was estimated to be less than 50 feet below ground surface (bgs). Based on this information, the location was assessed a ranking score of 40.

2.0 Release Assessment and Mitigation

2.1 Initial Assessment

On March 31, 2012, a condensate release was discovered from the 4-inch diameter Lateral 2C-45 pipeline. Upon repair of the pipeline, Enterprise contractors excavated an area measuring 35 feet by 30 feet by 13 feet deep around the March 2012 release location. AES collected one representative soil sample (S-1) for field screening and laboratory analysis from the base of the excavation. Groundwater was encountered approximately 12 feet bgs within the excavation, and 12 barrels (bbls) of condensate and water were vacuumed from the excavation. Excavated soils were stockpiled on site for disposal at an authorized facility, and the liquids were transported to Enterprise's Blanco Storage facility.

On April 1, 2012, Enterprise completed an inspection of the Lateral 2C-45 pipeline and determined that there were two historical release points south of the March 2012 release point. As a result, 140 feet of pipeline, including the March 2012 release point, were abandoned in place at 12 feet bgs, and a new pipeline segment was installed at 8 feet bgs. The new pipeline trench, which extended from the March 2012 release excavation, measured 120 feet by 4 feet by 8 feet deep.

AES collected five additional soil samples (S-2 through S-6) for field screening and laboratory analysis within the new pipeline trench. These soil samples confirmed concentrations of contaminants of concern at 8 feet bgs. Based on field observations and laboratory analytical results, AES determined that overburden to 8 feet bgs could be used as backfill and further recommended continued excavation of PCS associated with the release locations. Details of the soil sample results are discussed in Section 3.0, and excavation extents are presented in Figure 3.

2.2 PCS Excavation

On April 9 through April 24, 2012, Enterprise contractors expanded the excavation to continue the removal of PCS. AES collected a total of 136 samples that were field screened for volatile organic compounds (VOCs) and were used to guide the excavation. Additionally, 39 5-point composite soil samples were collected for field screening and laboratory analysis. From the 39 soil samples, 33 samples were used as excavation guidance and ultimately as confirmation samples. The remaining 6 soil samples were used for excavation guidance only. Details of the soil sample results are presented in Section 3.0.

Excavation details are summarized as follows:

- The final excavation area measured approximately 8,800 square feet ranging from 10 to 19 feet deep.
- Approximately 50 feet of non-designated dirt road were excavated on the northern portion of the excavation.
- A sandstone outcrop was encountered from 2 to 12 feet bgs on the northeast side of the excavation.
- Enterprise suspended the excavation and sampling in the southeast extent of the excavation because of safety hazards created by steep walls sloughing.
- Soil was left in place around the abandoned pipeline in order to maintain the structural integrity of the newly installed pipeline. The area left in place measured approximately 145 feet long by 8 feet wide.

Groundwater was encountered at approximately 12 feet bgs within the excavation on the western side of the pipeline. Three groundwater samples (GW-1 through GW-3) were collected from the excavation for laboratory analysis. Details of groundwater sample results are discussed in Section 4.0.

Approximately 3,128 cubic yards of hydrocarbon contaminated soil were transported by subcontractors to the TNT Landfarm, Inc., near Lindrith, New Mexico, for disposal. Following the collection of soil confirmation samples, the excavation was backfilled with stockpiled overburden and clean imported material. Excavation extents are presented in Figure 4, and a photograph log and disposal documents are attached.

3.0 Soil Sampling

As part of initial assessment activities on March 31 and April 1, 2012, AES personnel collected six soil samples (S-1 through S-6) for field screening and laboratory analysis. S-1 was collected from the March 2012 release location at 12 feet bgs, and S-2 through S-

6 were collected at 8 feet bgs along the newly installed pipeline trench. Soil sample locations are included on Figure 3.

During PCS removal between April 9 through 24, 2012, AES personnel collected 39 5-point composite soil samples (SC-1 through SC-39) from the sidewalls of the excavation at depths ranging from 1 to 15 feet bgs and from the base of the excavation at depths ranging from 10 to 19 feet bgs. The composite samples were field screened and submitted for laboratory analysis. Soil sample locations are included on Figure 4.

3.1 Field Screening

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

3.2 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. Samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall), in Albuquerque, New Mexico. Soil samples were laboratory analyzed for:

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

3.3 Field Screening and Laboratory Analytical Results

Initial assessment field screening readings ranged from 1.7 ppm in S-6 up to 6,018 ppm in S-1. Final excavation field screening results ranged from 0.0 ppm in SC-10 and SC-11 up to 596 ppm in SC-5. Field screening readings are presented in Table 1 and on Figures 3 and 4.

Laboratory samples collected during initial assessment activities reported benzene concentrations below the laboratory detection limit in all samples, except for S-1 with 13 mg/kg. Total BTEX concentrations were reported above the laboratory detection limits in S-1 (968 mg/kg), S-3 (0.15 mg/kg), and S-5 (0.59 mg/kg). TPH concentrations as GRO/DRO were below the laboratory detection limits in all samples except for S-1 (9,000 mg/kg), S-2 (8.2 mg/kg GRO), and S-5 (9.5 mg/kg GRO).

Soil samples collected during the excavation work in April 2012 reported benzene concentrations below the laboratory detection limits in all samples, except for SC-5

(0.17 mg/kg), SC-8 (0.064 mg/kg), SC-9 (0.062 mg/kg), and SC-19 (0.13 mg/kg). Total BTEX concentrations were reported below the laboratory detection limits in all samples, except for SC-5 (9.9 mg/kg), SC-8 (0.416 mg/kg), SC-9 (0.062 mg/kg), SC-19 (0.13 mg/kg), SC-32 (0.23 mg/kg), SC-34 (1.0 mg/kg), and SC-37 (0.34 mg/kg). TPH concentrations were reported above the laboratory detection limits in SC-5 (69 mg/kg), SC-7 (56 mg/kg DRO), SC-10 (14 mg/kg DRO), SC-34 (4.8 mg/kg GRO), and SC-37 (87 mg/kg). Laboratory analytical results are included in Table 1 and on Figures 3 and 4. Laboratory analytical reports are attached.

4.0 Groundwater Sampling

On April 10, 11, and 17, 2012, groundwater samples (GW-1 through GW-3) were collected from various locations within the western portion of the excavation.

4.1 Laboratory Analyses

Groundwater samples were collected using new disposable bailers, preserved in laboratory-supplied containers, and stored in an insulated cooler containing ice. Samples were shipped in insulated coolers containing ice at less than 6°C to the analytical laboratory. Groundwater samples were laboratory analyzed for:

- BTEX per USEPA Method 8021B.

4.2 Laboratory Analytical Results

Groundwater analytical results showed that benzene and toluene concentrations were above the laboratory detection limits, respectively, in GW-2 (60 µg/L and 6.6 µg/L) and GW-3 (34 µg/L and 34 µg/L). Ethylbenzene and total xylene concentrations were below laboratory detection limits except for GW-3 (12 µg/L and 97 µg/L, respectively). Groundwater analytical results are presented in Table 2 and on Figure 5. Groundwater laboratory analytical reports are attached.

5.0 Conclusions and Recommendations

NMOCD action levels for releases are specified in NMOCD's *Guidelines for Leaks, Spills, and Releases* (August 1993), and the release location was assessed a ranking score of 40. Based on soil laboratory analytical results, PCS has been removed to below NMOCD action levels for benzene, total BTEX, and TPH within the accessible areas of the excavation. The highest concentrations from the initial assessment work on March 31 and April 1, 2012, above applicable NMOCD action levels were recorded in S-1 with 13 mg/kg benzene, 969 mg/kg total BTEX, and 9,000 mg/kg TPH. S-1 is representative of an area of soil directly below the abandoned pipeline that was left in place during the


installation of the new pipeline. However, samples collected from soils left in place (SC-5, SC-7, SC-13, and SC-23) and located approximately 5 feet from the abandoned pipeline showed that soil concentrations for benzene, total BTEX, and TPH were below NMOCD action levels.

Groundwater laboratory analytical results confirm that groundwater has been impacted by dissolved phase benzene with concentrations exceeding the applicable New Mexico Water Quality Commission (WQCC) standard in GW-2 (60 µg/L) and GW-3 (34 µg/L). Dissolved phase toluene, ethylbenzene, and total xylenes were below applicable WQCC standards.

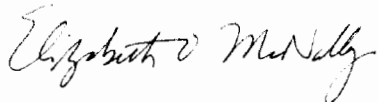
Based on field observations, field screening, and laboratory analytical results, AES recommends the installation of temporary soil borings/monitor wells using a Geoprobe in order to investigate PCS that may exist in the southwestern portion of the excavation where access was restricted and to delineate the dissolved phase contaminant plume. Upon completion of the site investigation, recommendations for remedial methods, if necessary, will be presented. Figure 6 illustrates the proposed locations of soil borings.

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

Sincerely,



Tami C. Ross, CHMM
Project Manager



Elizabeth McNally, P.E.

Attachments:

Table 1. Summary of Field Screening and Soil Laboratory Analytical Results
Table 2: Summary of Groundwater Laboratory Analytical Results
Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Map
Figure 3. Initial Release Assessment Excavation, Sample Locations, and Results,
March and April 2012
Figure 4. Final Excavation Sample Locations and Results, April 2012
Figure 5. Groundwater Sample Locations and Results, April 2012
Figure 6. Proposed Soil Borings/Temporary Monitor Well Locations
Photograph Log
Waste Disposal Document (T-n-T Environmental, Inc., C-138)
Laboratory Analytical Reports (Hall 1204426, 124490, 1204539, 1204655,
1204432, 1204707, 1204945, 1204A10)

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Mitigation Report 092112.docx

TABLE 1
SUMMARY OF SOIL FIELD SCREENING AND LABORATORY ANALYTICAL RESULTS
Enterprise Lateral 2C-45 Release Report
Rio Arriba County, New Mexico

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Depth (feet)</i>	<i>OVM-PID (ppm)</i>	<i>Benzene (mg/kg)</i>	<i>BTEX (mg/kg)</i>	<i>GRO (C6-C10) (mg/kg)</i>	<i>DRO (C10-C22)</i>
NMOCD Action Level			100	10	50	100	
S-1	31-Mar-12	12	6,018	13	968	6,700	2,300
S-2	1-Apr-12	8	548	<0.049	<0.244	8.2	<9.9
S-3	1-Apr-12	8	33.2	<0.048	0.15	<4.8	<10
S-4	1-Apr-12	8	17.5	<0.047	<0.234	<4.7	<10
S-5	1-Apr-12	8	73.6	<0.047	0.59	9.5	<10
S-6	1-Apr-12	8	1.7	<0.048	<0.241	<4.8	<9.8
SC-1	9-Apr-12	1 to 12	147	<0.047	<0.235	<4.7	<9.9
SC-2	9-Apr-12	12	37	<0.050	<0.250	<5.0	<10
SC-3	9-Apr-12	1 to 12	7.2	<0.048	<0.241	<4.8	<10
SC-4	10-Apr-12	1 to 15	67	<0.049	<0.245	<4.9	<9.7
SC-5	10-Apr-12	1 to 12	596	0.17	9.9	53	16
SC-6	10-Apr-12	1 to 12	NA	<0.048	<0.241	<4.8	<10
SC-7	10-Apr-12	1 to 12	231	<0.096	<0.478	<9.6	56
SC-8	10-Apr-12	12	148	0.064	0.416	<5.0	<10
SC-9	10-Apr-12	10	117	0.062	0.062	5.3	<9.9
SC-10	12-Apr-12	1 to 12	0.0	<0.048	<0.241	<4.8	14
SC-11	12-Apr-12	10	0.0	<0.049	<0.245	<4.9	<9.7
SC-12	12-Apr-12	1 to 10	1.5	<0.049	<0.245	<4.9	<10
SC-13	12-Apr-12	1 to 10	108	<0.050	<0.250	<5.0	<9.7
SC-14	12-Apr-10	1 to 10	2.5	<0.048	<0.240	<4.8	<10
SC-15	12-Apr-12	12	NA	<0.048	<0.239	<4.8	<9.8
SC-16	15-Apr-12	10	23	<0.050	<0.250	<5.0	<9.7
SC-17	15-Apr-12	12	5.1	<0.050	<0.250	<5.0	<9.9
SC-18	15-Apr-12	19	41	<0.050	<0.250	<5.0	<9.8
SC-19	15-Apr-12	12	18.1	0.13	0.13	<5.0	<9.9
SC-20	16-Apr-12	12	23	<0.49	<2.44	<4.9	<9.9
SC-21	16-Apr-12	12	8.7	<0.50	<2.49	<5.0	<10
SC-22	16-Apr-12	18	47	<0.048	<0.239	<4.8	<9.6

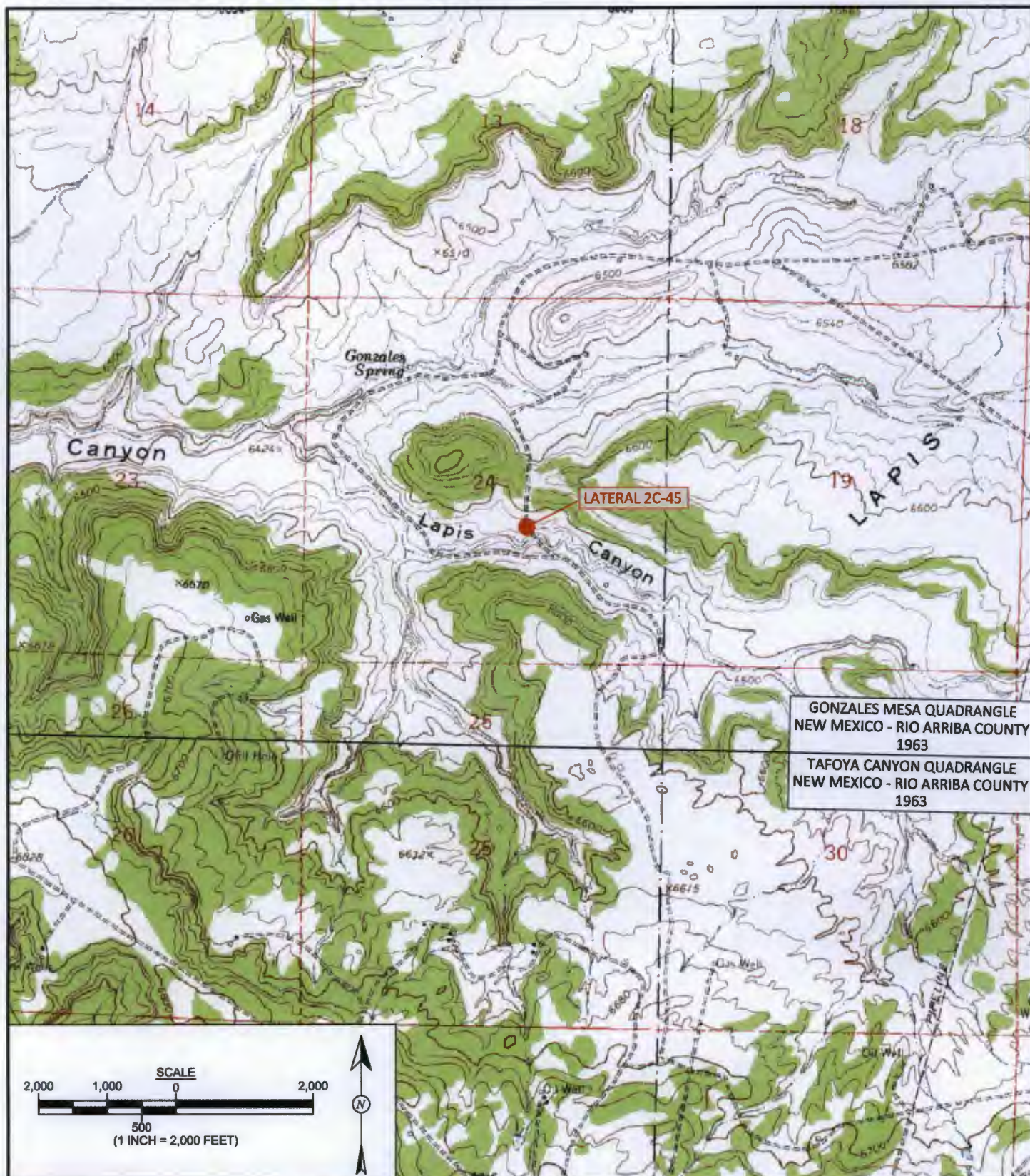
TABLE 1
SUMMARY OF SOIL FIELD SCREENING AND LABORATORY ANALYTICAL RESULTS
Enterprise Lateral 2C-45 Release Report
Rio Arriba County, New Mexico

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Depth (feet)</i>	<i>OVM-PID (ppm)</i>	<i>Benzene (mg/kg)</i>	<i>BTEX (mg/kg)</i>	<i>GRO (C6-C10) (mg/kg)</i>	<i>DRO (C10-C22)</i>
NMOC Action Level			100	10	50	100	
SC-23	16-Apr-12	1 to 12	8.6	<0.048	<0.239	<4.8	<9.7
SC-24	16-Apr-12	1 to 12	3.8	<0.049	<0.244	<4.9	<9.9
SC-25	17-Apr-12	10	8.1	<0.049	<0.245	<4.9	<10
SC-26	17-Apr-12	1 to 12	20.3	<0.047	<0.235	<4.7	<9.9
SC-27	23-Apr-12	12	116	<0.049	<0.245	<4.9	<9.8
SC-28	23-Apr-12	1 to 12	79	<0.049	<0.245	<4.9	<10
SC-29	23-Apr-12	12	35.1	<0.047	<0.234	<4.7	<9.6
SC-30	23-Apr-12	1 to 12	134	<0.049	<0.245	<4.9	<9.7
SC-31	24-Apr-12	2 to 4	26	<0.048	<0.239	<4.8	<10
SC-32	24-Apr-12	2 to 4	45	<0.049	0.23	<4.9	<9.7
SC-33	24-Apr-12	2 to 4	33	<0.047	<0.235	<4.7	<10
SC-34	24-Apr-12	1 to 10	275	<0.047	1.0	4.8	<9.7
SC-35	24-Apr-12	2 to 4	77	<0.046	<0.231	<4.6	<9.8
SC-36	24-Apr-12	12	89	<0.049	<0.245	<4.9	<10
SC-37	24-Apr-12	1 to 12	83	<0.049	0.34	38	49
SC-38	24-Apr-12	1 to 12	127	<0.048	<0.240	<4.8	<10
SC-39	24-Apr-12	1 to 4	108	<0.049	<0.245	<4.9	<9.8

NOTES: NA - Not Analyzed

TABLE 2
SUMMARY OF GROUNDWATER LABORATORY ANALYTICAL RESULTS
Enterprise Lateral 2C-45 Release Report
Rio Arriba County, New Mexico

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Benzene (µg/L)</i>	<i>Toluene (µg/L)</i>	<i>Ethyl- Benzene (µg/L)</i>	<i>Total Xylenes (µg/L)</i>
<i>Analytical Method</i>		8021	8021	8021	8021
<i>WQCC Standard</i>		10	750	750	620
GW-1	10-Apr-12	<2.0	<2.0	<2.0	<4.0
GW-2	11-Apr-12	60	6.6	<5.0	<10
GW-3	17-Apr-12	34	34	12	97



Animas Environmental Services, LLC

DRAWN BY:
C. Lameman

DATE DRAWN:
April 2, 2012

REVISIONS BY:
C. Lameman

DATE REVISED:
April 2, 2012

CHECKED BY:
T. Ross

DATE CHECKED:
August 21, 2012

APPROVED BY:
R. Kennemer

DATE APPROVED:
August 22, 2012

FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP
ENTERPRISE PRODUCTS COMPANY
LATERAL 2C-45 MARCH 2012 PIPELINE RELEASE
RIO ARRIBA COUNTY, NEW MEXICO
NW¼ SE¼, SECTION 24, T25N, R6W
N36.38347, W107.41676



Animas Environmental Services, LLC

DRAWN BY:
C. Lameman

DATE DRAWN:
April 2, 2012

REVISIONS BY:
C. Lameman

DATE REVISED:
April 2, 2012

CHECKED BY:
T. Ross

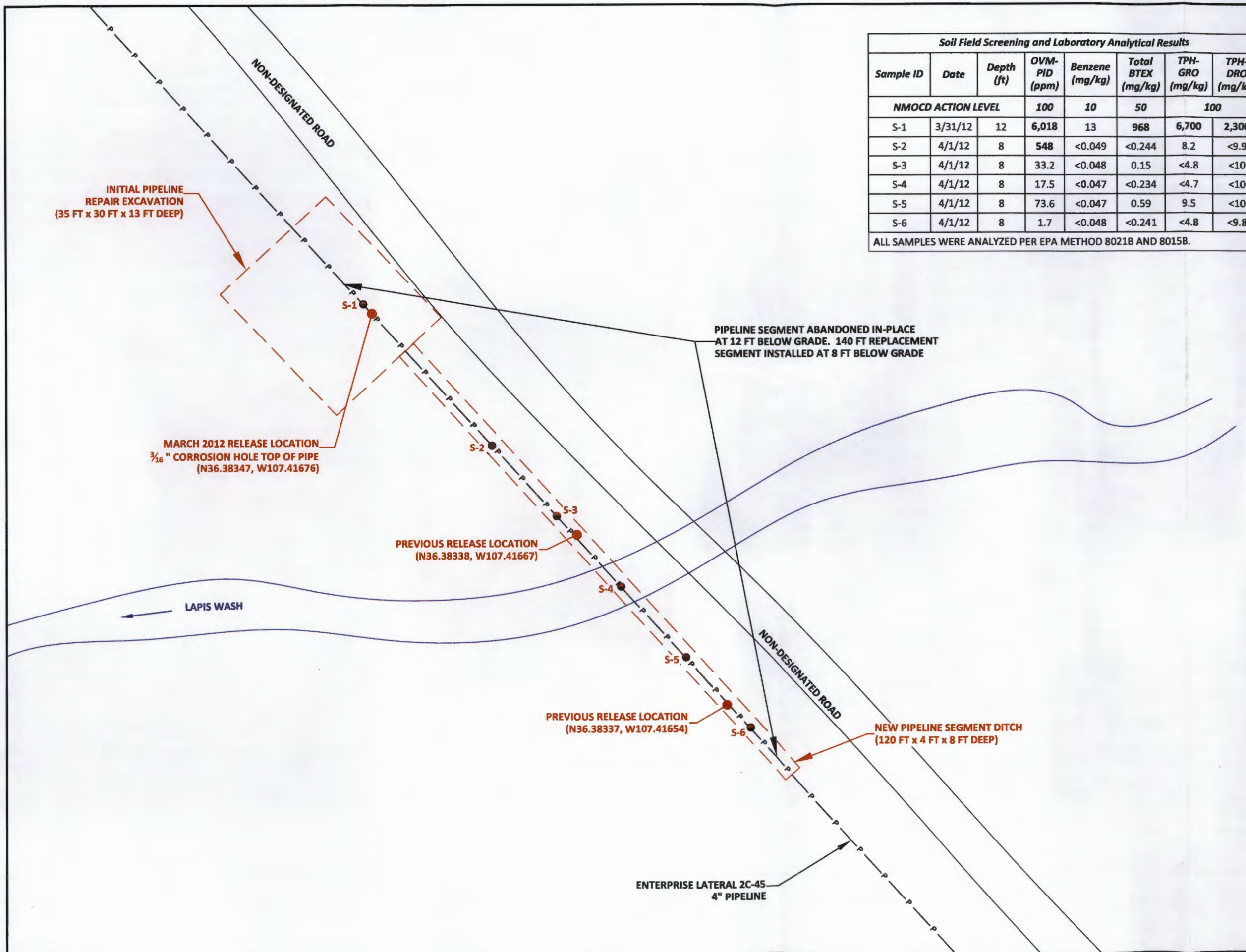
DATE CHECKED:
August 21, 2012

APPROVED BY:
R. Kennemer

DATE APPROVED:
August 22, 2012

FIGURE 2

AERIAL SITE MAP
ENTERPRISE PRODUCTS COMPANY
LATERAL 2C-45 MARCH 2012 PIPELINE RELEASE
RIO ARriba COUNTY, NEW MEXICO
NW¼ SE¼, SECTION 24, T25N, R6W
N36.38347, W107.41676



Soil Field Screening and Laboratory Analytical Results							
Sample ID	Date	Depth (ft)	OVM-PID (ppm)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)
NMOCD ACTION LEVEL			100	10	50	100	
S-1	3/31/12	12	6,018	13	968	6,700	2,300
S-2	4/1/12	8	548	<0.049	<0.244	8.2	<9.9
S-3	4/1/12	8	33.2	<0.048	0.15	<4.8	<10
S-4	4/1/12	8	17.5	<0.047	<0.234	<4.7	<10
S-5	4/1/12	8	73.6	<0.047	0.59	9.5	<10
S-6	4/1/12	8	1.7	<0.048	<0.241	<4.8	<9.8

ALL SAMPLES WERE ANALYZED PER EPA METHOD 8021B AND 8015B.

FIGURE 3

**INITIAL RELEASE ASSESSMENT
EXCAVATION, SAMPLE LOCATIONS,
AND RESULTS, MARCH AND APRIL 2012**
ENTERPRISE PRODUCTS COMPANY
LATERAL 2C-45 MARCH 2012 PIPELINE RELEASE
RIO ARriba COUNTY, NEW MEXICO
NW¼ SE¼, SECTION 24, T25N, R6W
N36.38347, W107.41676



Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: May 16, 2012
REVISIONS BY: C. Lameman	DATE REVISED: August 21, 2012
CHECKED BY: T. Ross	DATE CHECKED: August 21, 2012
APPROVED BY: R. Kennemer	DATE APPROVED: August 22, 2012

LEGEND

- SOIL SAMPLE LOCATIONS
- P — BURIED PIPELINE

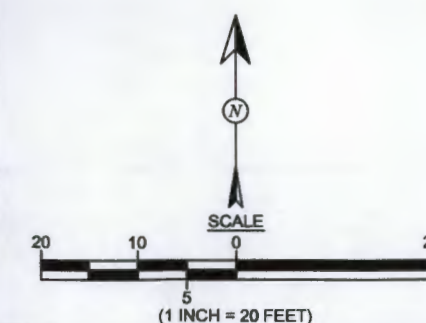


FIGURE 4

FINAL EXCAVATION, SAMPLE LOCATIONS AND RESULTS, APRIL 2012
 ENTERPRISE PRODUCTS COMPANY
 LATERAL 2C-45 MARCH 2012 PIPELINE RELEASE
 RIO ARriba COUNTY, NEW MEXICO
 NW¼ SE¼, SECTION 24, T25N, R6W
 N36.38347, W107.41676

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DRAWN BY:
C. Lameman

DATE DRAWN:
May 16, 2012

REVISIONS BY:
C. Lameman

DATE REVISED:
August 21, 2012

CHECKED BY:
T. Ross

DATE CHECKED:
August 21, 2012

APPROVED BY:
R. Kennemer

DATE APPROVED:
August 21, 2012

LEGEND

- FINAL EXCAVATION 5-POINT COMPOSITE SAMPLE LOCATIONS
- EXCAVATION GUIDANCE 5-POINT COMPOSITE SAMPLE LOCATIONS
- P — BURIED PIPELINE

Sample ID	Date	Depth (ft)	OVM-PID (ppm)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)
NMOCD ACTION LEVEL			100	10	50	100	
SC-1	4/9/12	1 to 12	147	<0.047	<0.235	<4.7	<9.9
SC-2	4/9/12	12	37	<0.050	<0.250	<5.0	<10
SC-3	4/9/12	1 to 12	7.2	<0.048	<0.241	<4.8	<10
SC-4	4/10/12	1 to 5	67	<0.049	<0.245	<4.9	<9.7
SC-5	4/10/12	1 to 12	596	0.17	9.9	53	16
SC-6	4/10/12	1 to 12	NA	<0.048	<0.241	<4.8	<10
SC-7	4/10/12	1 to 12	231	<0.096	<0.478	<9.6	56
SC-8	4/10/12	12	148	0.064	0.416	<5.0	<10
SC-9	4/10/12	10	117	0.062	0.062	5.3	<9.9
SC-10	4/12/12	1 to 12	0.0	<0.048	<0.241	<4.8	14
SC-11	4/12/12	10	0.0	<0.049	<0.245	<4.9	<9.7
SC-12	4/12/12	1 to 10	1.5	<0.049	<0.245	<4.9	<10
SC-13	4/12/12	1 to 10	108	<0.050	<0.250	<5.0	<9.7
SC-14	4/12/12	1 to 10	2.5	<0.048	<0.240	<4.8	<10
SC-15	4/12/12	12	NA	<0.048	<0.239	<4.8	<9.8
SC-16	4/15/12	10	23	<0.050	<0.250	<5.0	<9.7
SC-17*	4/15/12	12	5.1	<0.050	<0.250	<5.0	<9.9
SC-18	4/15/12	19	41	<0.050	<0.250	<5.0	<9.8
SC-19	4/15/12	12	18.1	0.13	0.13	<5.0	<9.9
SC-20	4/16/12	12	23	<0.49	<2.44	<4.9	<9.9
SC-21*	4/16/12	12	8.7	<0.50	<2.49	<5.0	<10
SC-22	4/16/12	18	47	<0.048	<0.239	<4.8	<9.6
SC-23	4/16/12	1 to 12	8.6	<0.048	<0.239	<4.8	<9.7
SC-24*	4/16/12	1 to 12	3.8	<0.049	<0.244	<4.9	<9.9
SC-25*	4/17/12	10	8.1	<0.049	<0.245	<4.9	<10
SC-26*	4/17/12	1 to 12	20.3	<0.047	<0.235	<4.7	<9.9
SC-27	4/23/12	12	116	<0.049	<0.245	<4.9	<9.8
SC-28	4/23/12	1 to 12	79	<0.049	<0.245	<4.9	<10
SC-29	4/23/12	12	35.1	<0.047	<0.234	<4.7	<9.6
SC-30	4/23/12	1 to 12	134	<0.049	<0.245	<4.9	<9.7
SC-31	4/24/12	2 to 4	26	<0.048	<0.239	<4.8	<10
SC-32	4/24/12	2 to 4	45	<0.049	0.23	<4.9	<9.7
SC-33	4/24/12	2 to 4	33	<0.047	<0.235	<4.7	<10
SC-34	4/24/12	10	275	<0.047	1.0	4.8	<9.7
SC-35*	4/24/12	2 to 4	77	<0.046	<0.231	<4.6	<9.8
SC-36	4/24/12	12	89	<0.049	<0.245	<4.9	<10
SC-37	4/24/12	1 to 12	83	<0.049	0.34	38	49
SC-38	4/24/12	1 to 12	127	<0.048	<0.240	<4.8	<10
SC-39	4/24/12	1 to 4	108	<0.049	<0.245	<4.9	<9.8

ALL SAMPLES ANALYZED PER EPA METHOD 8021B AND 8015B.
 * - SAMPLES USED TO GUIDE EXCAVATION EXTENTS.
 NA - NOT ANALYZED

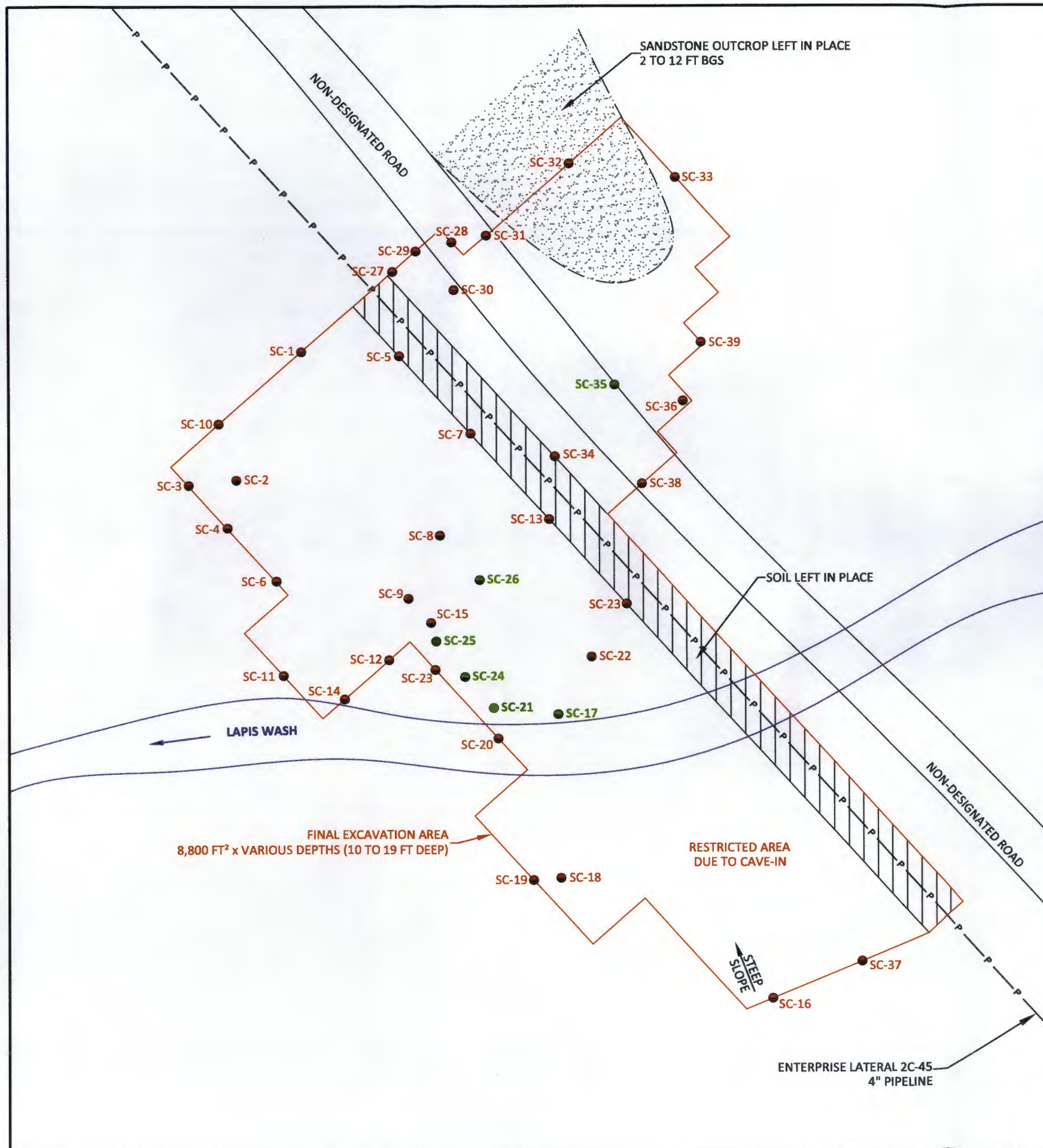
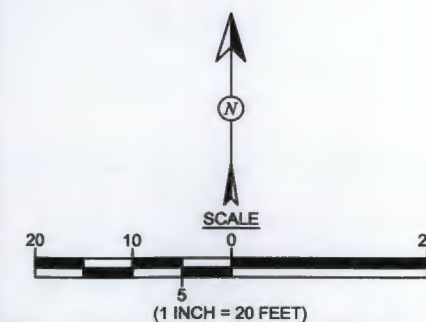


FIGURE 5

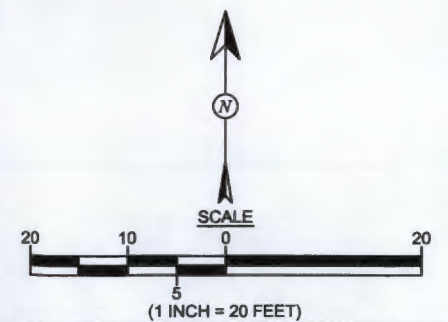
GROUNDWATER SAMPLE LOCATIONS AND RESULTS, APRIL 2012
 ENTERPRISE PRODUCTS COMPANY
 LATERAL 2C-45 MARCH 2012 PIPELINE RELEASE
 RIO ARriba COUNTY, NEW MEXICO
 NW¼ SE¼, SECTION 24, T25N, R6W
 N36.38347, W107.41676

S:\Arriba 2000\2012 Projects\Auto CAD\AES Color Logo EM 110210.JPG

DRAWN BY: C. Lameman	DATE DRAWN: May 16, 2012
REVISIONS BY: C. Lameman	DATE REVISED: August 21, 2012
CHECKED BY: T. Ross	DATE CHECKED: August 21, 2012
APPROVED BY: R. Kennemer	DATE APPROVED: August 22, 2012

LEGEND

- SAMPLE LOCATION
- P — BURIED PIPELINE



Groundwater Laboratory Analytical Results					
Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)
WQCC STANDARD		10	750	750	620
GW-1	4/10/12	<5.0	<2.0	<2.0	<4.0
GW-2	4/11/12	60	6.6	<5.0	<10
GW-3	4/17/12	34	34	12	97

ALL SAMPLES WERE ANALYZED PER EPA METHOD 8021B OR 8260B.

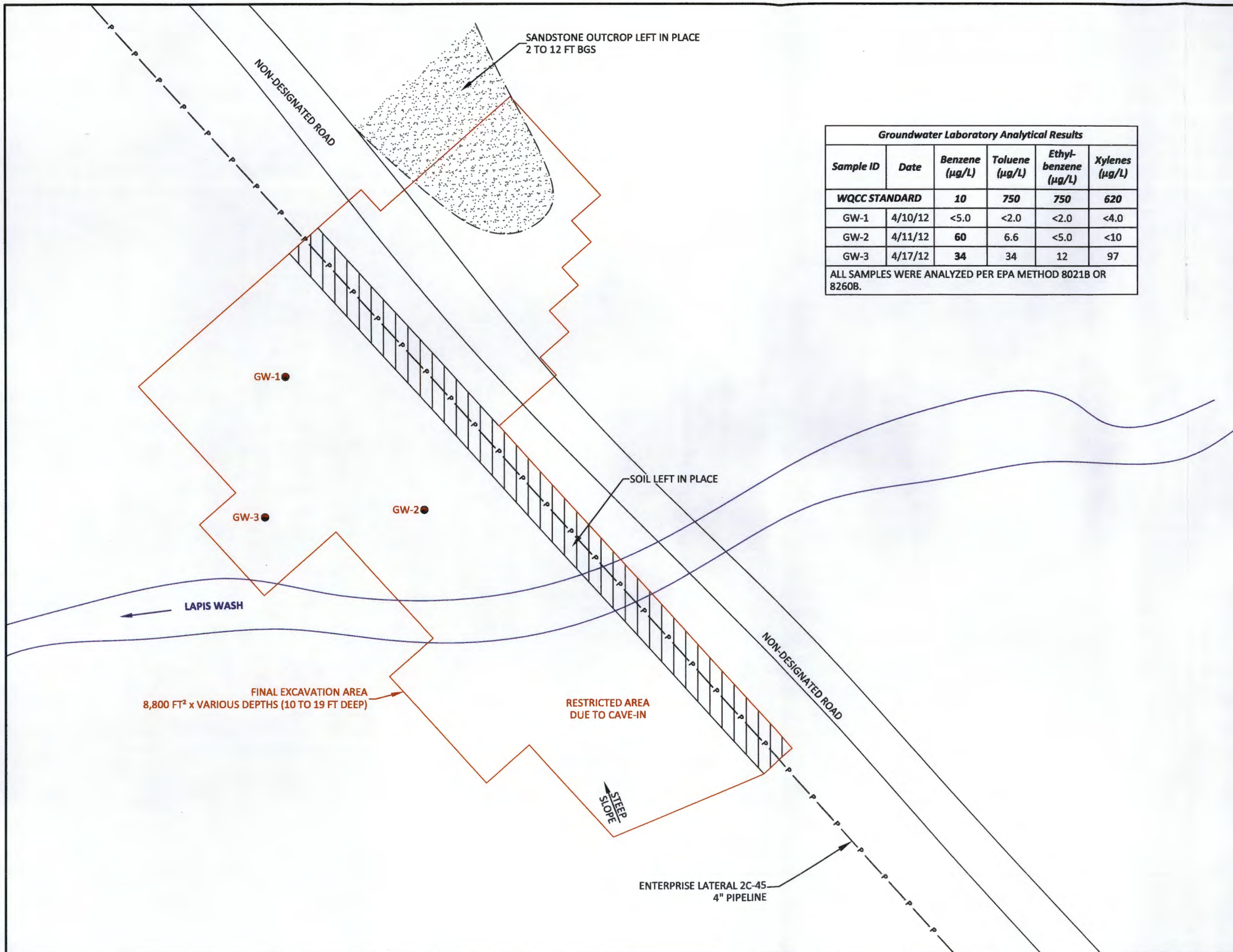


FIGURE 6

PROPOSED SOIL BORING LOCATIONS
ENTERPRISE PRODUCTS COMPANY
LATERAL 2C-45 MARCH 2012 PIPELINE RELEASE
RIO ARriba COUNTY, NEW MEXICO
NW¼ SE¼, SECTION 24, T25N, R6W
N36.38347, W107.41676

S:\mines 2000\2012 Projects\Auto CAD\AES Color Logo EM 110210.JPG

DRAWN BY: C. Lameman	DATE DRAWN: August 21, 2012
REVISIONS BY: C. Lameman	DATE REVISED: August 21, 2012
CHECKED BY: T. Ross	DATE CHECKED: August 21, 2012
APPROVED BY: R. Kennemer	DATE APPROVED: August 22, 2012

LEGEND
PROPOSED SOIL BORING LOCATIONS
BURIED PIPELINE

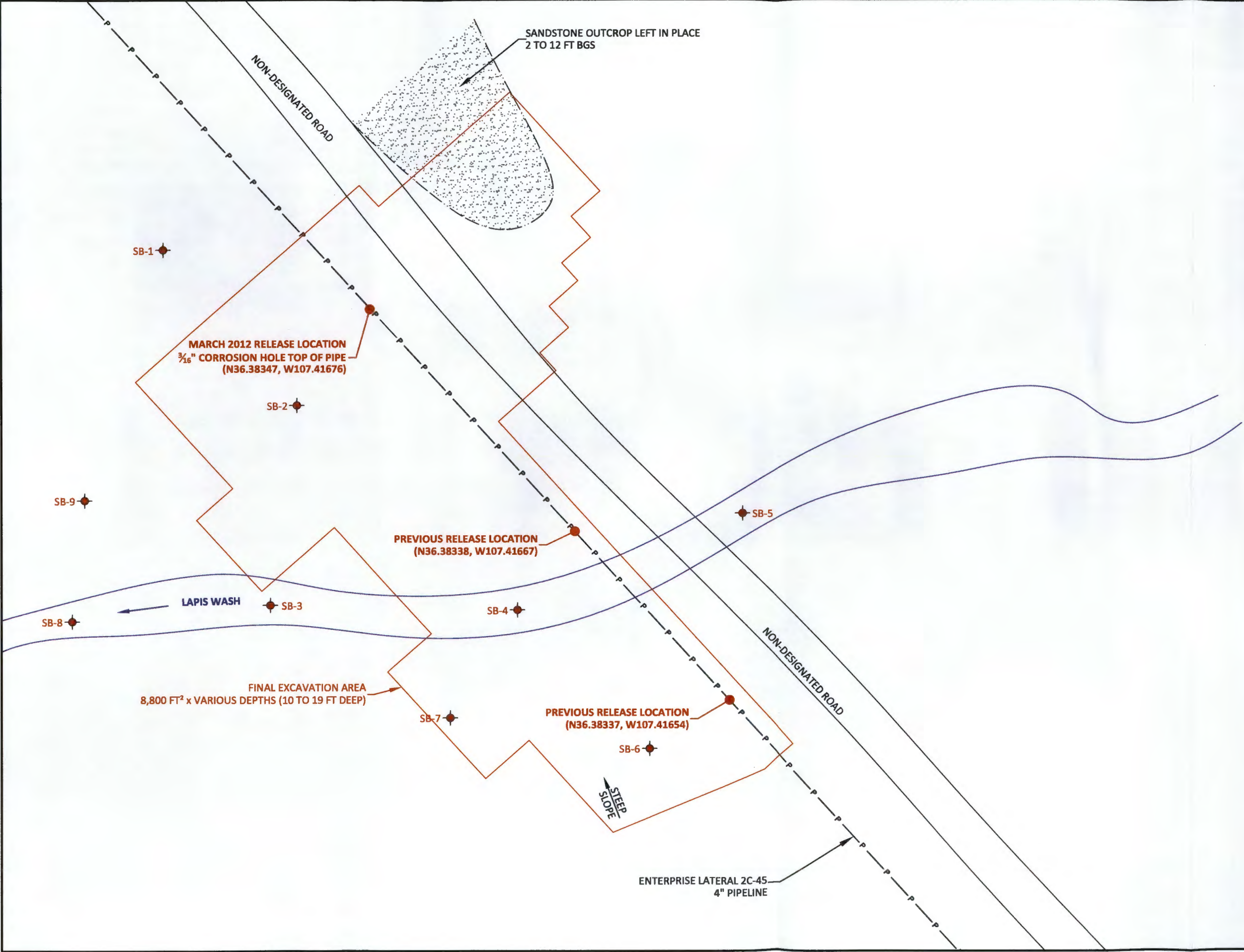
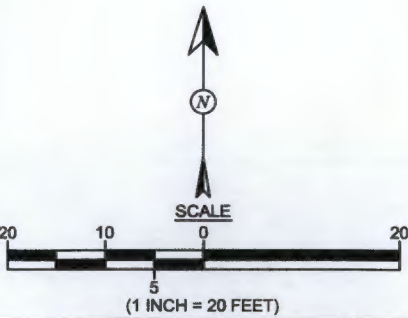




Photo #1	
Client: Enterprise Products Company	
Project: Lateral 2C-45 Pipeline Release	
Taken by: Ross Kennemer	
April 1, 2012	
AES Project No: 120326	Description: View of the initial assessment excavation and trench for the installation of the new pipeline segment.

Photo #2	
Client: Enterprise Products Company	
Project: Lateral 2C-45 Pipeline Release	
Taken by: Tom Long	
April 16, 2012	
AES Project No: 120326	Description: View of the southwest portion of the excavation with restricted access because of steep slope and sloughing.

Photo #3	
Client: Enterprise Products Company	
Project: Lateral 2C-45 Pipeline Release	
Taken by: Tom Long	
April 15, 2012	
AES Project No: 120326	Description: View of the excavation in Lapis Wash.

Photo #4	
Client: Enterprise Products Company	
Project: Lateral 2C-45 Pipeline Release	
Taken by: Tom Long	
May 3, 2012	
AES Project No: 120326	Description: View to the north of the excavation after backfilling.

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: Lateral 2C-45 Pipeline Segment	
3. Location of Material (Street Address, City, State or ULSTR): Unit K Section 25 T25N R6W, Lat 36.383501, Long. -107.416728	
4. Source and Description of Waste: Excavation of exempt petroleum hydrocarbon contaminated soil from pipeline release Estimated Volume <u>500</u> yd ³ / bbls Known Volume (to be entered by the operator at the end of the haul) <u>240</u> yd ³ / bbls <div style="text-align: right;">1,440 yds. 1,428 yds. <u>3,128</u> Total <u>240</u> yd³ / bbls</div>	
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS I, _____, representative or authorized agent for Enterprise Products Operating do hereby 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) <input checked="" type="checkbox"/> RCRA Exempt. Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non- exempt waste. <u>Operator Use Only: Waste Acceptance Frequency</u> <input type="checkbox"/> Monthly <input type="checkbox"/> Weekly <input type="checkbox"/> Per Load <input type="checkbox"/> 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) <input type="checkbox"/> MSDS Information <input type="checkbox"/> RCRA Hazardous Waste Analysis <input checked="" type="checkbox"/> Process Knowledge <input type="checkbox"/> Other (Provide description in Box 4) GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS I, _____, representative for Enterprise Products Operating, authorize T-n-T environmental to complete 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: West States Energy—Contact Gary Maestas @ (505) 215-2744	

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: T-n-T Environmental Inc. NM-01-0008
Address of Facility #70 CR 405, Lindrieth, NM 87029

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 Lynette Schmitz TITLE Office Admin DATE 3-31-12
SIGNATURE [Signature] TELEPHONE NO. 575-774-6504
Surface Waste Management Facility Authorized Agent



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

May 01, 2012

Ross Kennemer

Animas Environmental Services

624 East Comanche

Farmington, NM 87401

TEL: (505) 486-1776

FAX: (505) 324-2022

RE: Enterprise Lateral 2C-45

OrderNo.: 1204945

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory received 4 sample(s) on 4/25/2012 for the analyses presented in the following report.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1204945

Date Reported: 5/1/2012

CLIENT: Animas Environmental Services

Client Sample ID: SC-27

Project: Enterprise Lateral 2C-45

Collection Date: 4/23/2012 11:01:00 AM

Lab ID: 1204945-001

Matrix: SOIL

Received Date: 4/25/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/26/2012 2:10:13 PM
Surr: DNOP	98.4	77.4-131		%REC	1	4/26/2012 2:10:13 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/28/2012 1:18:10 AM
Surr: BFB	100	69.7-121		%REC	1	4/28/2012 1:18:10 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	4/28/2012 1:18:10 AM
Toluene	ND	0.049		mg/Kg	1	4/28/2012 1:18:10 AM
Ethylbenzene	ND	0.049		mg/Kg	1	4/28/2012 1:18:10 AM
Xylenes, Total	ND	0.098		mg/Kg	1	4/28/2012 1:18:10 AM
Surr: 4-Bromofluorobenzene	91.9	80-120		%REC	1	4/28/2012 1:18:10 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 ReportLab Order **1204945**Date Reported: **5/1/2012****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Animas Environmental Services**Client Sample ID:** SC-28**Project:** Enterprise Lateral 2C-45**Collection Date:** 4/23/2012 11:18:00 AM**Lab ID:** 1204945-002**Matrix:** SOIL**Received Date:** 4/25/2012 8:00:00 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	4/26/2012 2:36:02 PM
Surr: DNOP	94.8	77.4-131		%REC	1	4/26/2012 2:36:02 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/28/2012 1:46:51 AM
Surr: BFB	101	69.7-121		%REC	1	4/28/2012 1:46:51 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	4/28/2012 1:46:51 AM
Toluene	ND	0.049		mg/Kg	1	4/28/2012 1:46:51 AM
Ethylbenzene	ND	0.049		mg/Kg	1	4/28/2012 1:46:51 AM
Xylenes, Total	ND	0.098		mg/Kg	1	4/28/2012 1:46:51 AM
Surr: 4-Bromofluorobenzene	92.8	80-120		%REC	1	4/28/2012 1:46:51 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.

Analytical Report

Lab Order 1204945

Date Reported: 5/1/2012

CLIENT: Animas Environmental Services

Client Sample ID: SC-29

Project: Enterprise Lateral 2C-45

Collection Date: 4/23/2012 11:53:00 AM

Lab ID: 1204945-003

Matrix: SOIL

Received Date: 4/25/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/26/2012 3:01:46 PM
Surr: DNOP	98.7	77.4-131		%REC	1	4/26/2012 3:01:46 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/28/2012 2:15:32 AM
Surr: BFB	101	69.7-121		%REC	1	4/28/2012 2:15:32 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	4/28/2012 2:15:32 AM
Toluene	ND	0.047		mg/Kg	1	4/28/2012 2:15:32 AM
Ethylbenzene	ND	0.047		mg/Kg	1	4/28/2012 2:15:32 AM
Xylenes, Total	ND	0.093		mg/Kg	1	4/28/2012 2:15:32 AM
Surr: 4-Bromofluorobenzene	93.0	80-120		%REC	1	4/28/2012 2:15:32 AM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1204945

Date Reported: 5/1/2012

CLIENT: Animas Environmental Services

Client Sample ID: SC-30

Project: Enterprise Lateral 2C-45

Collection Date: 4/23/2012 11:57:00 AM

Lab ID: 1204945-004

Matrix: SOIL

Received Date: 4/25/2012 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/26/2012 3:27:40 PM
Surr: DNOP	95.0	77.4-131		%REC	1	4/26/2012 3:27:40 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/28/2012 2:44:22 AM
Surr: BFB	99.0	69.7-121		%REC	1	4/28/2012 2:44:22 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	4/28/2012 2:44:22 AM
Toluene	ND	0.049		mg/Kg	1	4/28/2012 2:44:22 AM
Ethylbenzene	ND	0.049		mg/Kg	1	4/28/2012 2:44:22 AM
Xylenes, Total	ND	0.098		mg/Kg	1	4/28/2012 2:44:22 AM
Surr: 4-Bromofluorobenzene	89.9	80-120		%REC	1	4/28/2012 2:44:22 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1204945

01-May-12

Client: Animas Environmental Services

Project: Enterprise Lateral 2C-45

Sample ID: MB-1688	SampType: MBLK	TestCode: EPA Method 8015B: Diesel Range Organics								
Client ID: PBS	Batch ID: 1688	RunNo: 2375								
Prep Date: 4/25/2012	Analysis Date: 4/26/2012	SeqNo: 66012	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	10		10.00		101	77.4	131			

Sample ID: LCS-1688	SampType: LCS	TestCode: EPA Method 8015B: Diesel Range Organics								
Client ID: LCSS	Batch ID: 1688	RunNo: 2375								
Prep Date: 4/25/2012	Analysis Date: 4/26/2012	SeqNo: 66091	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	102	62.7	139			
Surr: DNOP	4.6		5.000		92.5	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.

WO#: 1204945

01-May-12

Client: Animas Environmental Services

Project: Enterprise Lateral 2C-45

Sample ID: MB-1687	SampType: MBLK	TestCode: EPA Method 8015B: Gasoline Range								
Client ID: PBS	Batch ID: 1687	RunNo: 2396								
Prep Date: 4/25/2012	Analysis Date: 4/26/2012	SeqNo: 67176 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	930		1,000		92.6	69.7	121			

Sample ID: LCS-1687	SampType: LCS	TestCode: EPA Method 8015B: Gasoline Range								
Client ID: LCSS	Batch ID: 1687	RunNo: 2396								
Prep Date: 4/25/2012	Analysis Date: 4/26/2012	SeqNo: 67177 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	116	98.5	133			
Surr: BFB	1,000		1,000		104	69.7	121			

Sample ID: MB-1721	SampType: MBLK	TestCode: EPA Method 8015B: Gasoline Range								
Client ID: PBS	Batch ID: 1721	RunNo: 2448								
Prep Date: 4/27/2012	Analysis Date: 4/29/2012	SeqNo: 68072 Units: %REC								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1,000		1,000		101	69.7	121			

Sample ID: LCS-1721	SampType: LCS	TestCode: EPA Method 8015B: Gasoline Range								
Client ID: LCSS	Batch ID: 1721	RunNo: 2448								
Prep Date: 4/27/2012	Analysis Date: 4/29/2012	SeqNo: 68073 Units: %REC								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1,100		1,000		107	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#: 1204945

01-May-12

Client: Animas Environmental Services

Project: Enterprise Lateral 2C-45

Sample ID: MB-1687	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 1687	RunNo: 2396								
Prep Date: 4/25/2012	Analysis Date: 4/26/2012	SeqNo: 67197 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	0.84		1.000		83.9	80	120			

Sample ID: LCS-1687		SampType: LCS		TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS		Batch ID: 1687		RunNo: 2396						
Prep Date: 4/25/2012		Analysis Date: 4/26/2012		SeqNo: 67198			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Benzene	0.90	0.050	1.000	0	90.5	83.3	107			
Toluene	0.93	0.050	1.000	0	93.1	74.3	115			
Ethylbenzene	0.92	0.050	1.000	0	92.4	80.9	122			
Xylenes, Total	2.8	0.10	3.000	0	91.8	85.2	123			
Surr: 4-Bromofluorobenzene	0.86		1.000		86.4	80	120			

Sample ID: MB-1721		SampType: MBLK		TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS		Batch ID: 1721		RunNo: 2448						
Prep Date: 4/27/2012		Analysis Date: 4/29/2012		SeqNo: 68122			Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Surr: 4-Bromofluorobenzene	0.92		1.000		92.4	80	120			
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Sample ID: LCS-1721		SampType: LCS		TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS		Batch ID: 1721		RunNo: 2448						
Prep Date: 4/27/2012		Analysis Date: 4/29/2012		SeqNo: 68123			Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Surr: 4-Bromofluorobenzene	0.97		1.000		96.8	80	120			
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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
4901 Hawkins NE
Albuquerque, NM 87106
TEL: 505-345-3975 FAX: 505-345-4101
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	Animas Environmental	Work Order Number:	1204945
Received by/date:	<i>mg</i> <i>04/25/12</i>		
Logged By:	Michelle Garcia	4/25/2012 8:00:00 AM	<i>Michelle Garcia</i>
Completed By:	Michelle Garcia	4/25/2012 8:27:05 AM	<i>Michelle Garcia</i>
Reviewed By:	<i>TO</i> <i>04/25/12</i>		

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 $>0^{\circ}\text{C}$ 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. VOA vials have zero headspace? 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:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

18. Additional remarks:

19. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.6	Good	Not Present			



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

April 25, 2012

Ross Kennemer

Animas Environmental Services

624 East Comanche

Farmington, NM 87401

TEL: (505) 486-1776

FAX (505) 324-2022

RE: Enterprise Lateral 2C-45

OrderNo.: 1204707

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory received 8 sample(s) on 4/18/2012 for the analyses presented in the following report.

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

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

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1204707**

Date Reported: **4/25/2012**

CLIENT: Animas Environmental Services

Client Sample ID: SC-20

Project: Enterprise Lateral 2C-45

Collection Date: 4/16/2012 1:37:00 PM

Lab ID: 1204707-001

Matrix: SOIL

Received Date: 4/18/2012 10:00:00 AM

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	4/19/2012 9:01:38 AM
Surr: DNOP	97.6	77.4-131		%REC	1	4/19/2012 9:01:38 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/20/2012 1:45:41 PM
Surr: BFB	96.0	69.7-121		%REC	1	4/20/2012 1:45:41 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.49		mg/Kg	10	4/20/2012 3:32:20 AM
Toluene	ND	0.49		mg/Kg	10	4/20/2012 3:32:20 AM
Ethylbenzene	ND	0.49		mg/Kg	10	4/20/2012 3:32:20 AM
Xylenes, Total	ND	0.97		mg/Kg	10	4/20/2012 3:32:20 AM
Surr: 4-Bromofluorobenzene	91.0	80-120		%REC	10	4/20/2012 3:32:20 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 ReportLab Order **1204707**Date Reported: **4/25/2012****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Animas Environmental Services**Client Sample ID:** SC-21**Project:** Enterprise Lateral 2C-45**Collection Date:** 4/16/2012 2:05:00 PM**Lab ID:** 1204707-002**Matrix:** SOIL**Received Date:** 4/18/2012 10:00:00 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	4/19/2012 10:06:27 AM
Surr: DNOP	97.1	77.4-131		%REC	1	4/19/2012 10:06:27 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/20/2012 3:12:09 PM
Surr: BFB	102	69.7-121		%REC	1	4/20/2012 3:12:09 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.50		mg/Kg	10	4/20/2012 4:58:36 AM
Toluene	ND	0.50		mg/Kg	10	4/20/2012 4:58:36 AM
Ethylbenzene	ND	0.50		mg/Kg	10	4/20/2012 4:58:36 AM
Xylenes, Total	ND	0.99		mg/Kg	10	4/20/2012 4:58:36 AM
Surr: 4-Bromofluorobenzene	96.4	80-120		%REC	10	4/20/2012 4:58:36 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.

Analytical Report

Lab Order 1204707

Date Reported: 4/25/2012

CLIENT: Animas Environmental Services

Client Sample ID: SC-22

Project: Enterprise Lateral 2C-45

Collection Date: 4/16/2012 2:40:00 PM

Lab ID: 1204707-003

Matrix: SOIL

Received Date: 4/18/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/19/2012 10:41:02 AM
Surr: DNOP	99.2	77.4-131		%REC	1	4/19/2012 10:41:02 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/20/2012 3:40:54 PM
Surr: BFB	106	69.7-121		%REC	1	4/20/2012 3:40:54 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	4/20/2012 3:40:54 PM
Toluene	ND	0.048		mg/Kg	1	4/20/2012 3:40:54 PM
Ethylbenzene	ND	0.048		mg/Kg	1	4/20/2012 3:40:54 PM
Xylenes, Total	ND	0.095		mg/Kg	1	4/20/2012 3:40:54 PM
Surr: 4-Bromofluorobenzene	97.0	80-120		%REC	1	4/20/2012 3:40:54 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

Analytical ReportLab Order **1204707**Date Reported: **4/25/2012****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Animas Environmental Services**Client Sample ID:** SC-23**Project:** Enterprise Lateral 2C-45**Collection Date:** 4/16/2012 3:20:00 PM**Lab ID:** 1204707-004**Matrix:** SOIL**Received Date:** 4/18/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/19/2012 11:10:52 AM
Surr: DNOP	99.8	77.4-131		%REC	1	4/19/2012 11:10:52 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/20/2012 4:09:40 PM
Surr: BFB	106	69.7-121		%REC	1	4/20/2012 4:09:40 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	4/20/2012 4:09:40 PM
Toluene	ND	0.048		mg/Kg	1	4/20/2012 4:09:40 PM
Ethylbenzene	ND	0.048		mg/Kg	1	4/20/2012 4:09:40 PM
Xylenes, Total	ND	0.095		mg/Kg	1	4/20/2012 4:09:40 PM
Surr: 4-Bromofluorobenzene	96.2	80-120		%REC	1	4/20/2012 4:09:40 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.

Analytical Report

Lab Order **1204707**

Date Reported: **4/25/2012**

CLIENT: Animas Environmental Services

Client Sample ID: SC-24

Project: Enterprise Lateral 2C-45

Collection Date: 4/16/2012 4:05:00 PM

Lab ID: 1204707-005

Matrix: SOIL

Received Date: 4/18/2012 10:00:00 AM

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	4/19/2012 11:36:25 AM
Surr: DNOP	89.7	77.4-131		%REC	1	4/19/2012 11:36:25 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/20/2012 4:38:25 PM
Surr: BFB	102	69.7-121		%REC	1	4/20/2012 4:38:25 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	4/20/2012 4:38:25 PM
Toluene	ND	0.049		mg/Kg	1	4/20/2012 4:38:25 PM
Ethylbenzene	ND	0.049		mg/Kg	1	4/20/2012 4:38:25 PM
Xylenes, Total	ND	0.097		mg/Kg	1	4/20/2012 4:38:25 PM
Surr: 4-Bromofluorobenzene	94.8	80-120		%REC	1	4/20/2012 4:38:25 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

Analytical ReportLab Order **1204707**Date Reported: **4/25/2012****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Animas Environmental Services**Client Sample ID:** SC-25**Project:** Enterprise Lateral 2C-45**Collection Date:** 4/17/2012 10:35:00 AM**Lab ID:** 1204707-006**Matrix:** SOIL**Received Date:** 4/18/2012 10:00:00 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	4/19/2012 2:09:25 PM
Surr: DNOP	97.2	77.4-131		%REC	1	4/19/2012 2:09:25 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/20/2012 5:07:08 PM
Surr: BFB	102	69.7-121		%REC	1	4/20/2012 5:07:08 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	4/20/2012 5:07:08 PM
Toluene	ND	0.049		mg/Kg	1	4/20/2012 5:07:08 PM
Ethylbenzene	ND	0.049		mg/Kg	1	4/20/2012 5:07:08 PM
Xylenes, Total	ND	0.098		mg/Kg	1	4/20/2012 5:07:08 PM
Surr: 4-Bromofluorobenzene	96.4	80-120		%REC	1	4/20/2012 5:07:08 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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1204707

Date Reported: 4/25/2012

CLIENT: Animas Environmental Services

Client Sample ID: SC-26

Project: Enterprise Lateral 2C-45

Collection Date: 4/17/2012 10:45:00 AM

Lab ID: 1204707-007

Matrix: SOIL

Received Date: 4/18/2012 10:00:00 AM

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	4/19/2012 2:31:21 PM
Surr: DNOP	99.6	77.4-131		%REC	1	4/19/2012 2:31:21 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/20/2012 5:35:50 PM
Surr: BFB	101	69.7-121		%REC	1	4/20/2012 5:35:50 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	4/20/2012 5:35:50 PM
Toluene	ND	0.047		mg/Kg	1	4/20/2012 5:35:50 PM
Ethylbenzene	ND	0.047		mg/Kg	1	4/20/2012 5:35:50 PM
Xylenes, Total	ND	0.094		mg/Kg	1	4/20/2012 5:35:50 PM
Surr: 4-Bromofluorobenzene	95.3	80-120		%REC	1	4/20/2012 5:35:50 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

Analytical ReportLab Order **1204707**Date Reported: **4/25/2012****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Animas Environmental Services**Client Sample ID:** GW-3**Project:** Enterprise Lateral 2C-45**Collection Date:** 4/17/2012 9:15:00 AM**Lab ID:** 1204707-008**Matrix:** AQUEOUS**Received Date:** 4/18/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	34	5.0		µg/L	5	4/20/2012 1:42:43 AM
Toluene	34	5.0		µg/L	5	4/20/2012 1:42:43 AM
Ethylbenzene	12	5.0		µg/L	5	4/20/2012 1:42:43 AM
Xylenes, Total	97	10		µg/L	5	4/20/2012 1:42:43 AM
Surr: 4-Bromofluorobenzene	91.7	55-140		%REC	5	4/20/2012 1:42:43 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1204707

25-Apr-12

Client: Animas Environmental Services

Project: Enterprise Lateral 2C-45

Sample ID	MB-1592	SampType	MBLK	TestCode	EPA Method 8015B: Diesel Range Organics					
Client ID	PBS	Batch ID	1592	RunNo	2225					
Prep Date	4/18/2012	Analysis Date	4/19/2012	SeqNo	61672	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	9.8		10.00		97.8	77.4	131			

Sample ID	LCS-1592	SampType	LCS	TestCode	EPA Method 8015B: Diesel Range Organics					
Client ID	LCSS	Batch ID	1592	RunNo	2225					
Prep Date	4/18/2012	Analysis Date	4/19/2012	SeqNo	61764	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.8	62.7	139			
Surr: DNOP	4.4		5.000		87.6	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.

WO#: 1204707

25-Apr-12

Client: Animas Environmental Services

Project: Enterprise Lateral 2C-45

Sample ID	5ML RB		SampType:	MBLK		TestCode:	EPA Method 8015B: Gasoline Range				
Client ID:	PBS		Batch ID:	R2243		RunNo:	2243				
Prep Date:			Analysis Date:	4/19/2012		SeqNo:	62285		Units: %REC		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: BFB	990		1,000		98.7	69.7	121				

Sample ID	MB-1584		SampType: MBLK		TestCode: EPA Method 8015B: Gasoline Range					
Client ID:	PBS		Batch ID: 1584		RunNo: 2242					
Prep Date:	4/18/2012		Analysis Date: 4/19/2012		SeqNo: 62626		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	980		1,000		98.3	69.7	121			

Sample ID	LCS-1584		SampType: LCS		TestCode: EPA Method 8015B: Gasoline Range					
Client ID:	LCSS		Batch ID: 1584		RunNo: 2242					
Prep Date:	4/18/2012		Analysis Date: 4/19/2012		SeqNo: 62627		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	113	98.5	133			
Surr: BFB	1,100		1,000		105	69.7	121			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	LCSS	Batch ID:	R2243	RunNo:	2243					
Prep Date:		Analysis Date:	4/19/2012	SeqNo:	62867	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1,000		1,000		105	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#: 1204707

25-Apr-12

Client: Animas Environmental Services

Project: Enterprise Lateral 2C-45

Sample ID	MB-1584	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	1584	RunNo:	2242					
Prep Date:	4/18/2012	Analysis Date:	4/19/2012	SeqNo:	62645	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	0.92		1.000		91.7	80	120			

Sample ID	LCS-1584	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	1584	RunNo:	2242					
Prep Date:	4/18/2012	Analysis Date:	4/19/2012	SeqNo:	62646	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	95.1	83.3	107			
Toluene	0.98	0.050	1.000	0	98.3	74.3	115			
Ethylbenzene	0.96	0.050	1.000	0	95.9	80.9	122			
Xylenes, Total	2.9	0.10	3.000	0	96.1	85.2	123			
Surr: 4-Bromofluorobenzene	0.95		1.000		94.7	80	120			

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1204707

25-Apr-12

Client: Animas Environmental Services

Project: Enterprise Lateral 2C-45

Sample ID	5ML RB		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBW		Batch ID:	R2243		RunNo:	2243			
Prep Date:			Analysis Date:	4/19/2012		SeqNo:	62889		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	21		20.00		106	55	140			

Sample ID	100NG BTEX LCS		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSW		Batch ID:	R2243		RunNo:	2243			
Prep Date:			Analysis Date:	4/19/2012		SeqNo:	62890		Units: µg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	106	80	120			
Toluene	22	1.0	20.00	0	108	80	120			
Ethylbenzene	21	1.0	20.00	0	106	80	120			
Xylenes, Total	63	2.0	60.00	0	105	80	120			
Surr: 4-Bromofluorobenzene	27		20.00		134	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



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: 1204707

Received by/date: AG 04/18/12

Logged By: Michelle Garcia

4/18/2012 10:00:00 AM

Michelle Garcia

Completed By: Michelle Garcia

4/18/2012 10:11:48 AM

Michelle Garcia

Reviewed By: IO 04/18/12

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? Greyhound

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 $>0^{\circ}\text{C}$ 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. VOA vials have zero headspace? 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:

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	1.0	Good	Yes			



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

April 18, 2012

Ross Kennemer

Animas Environmental Services

624 East Comanche

Farmington, NM 87401

TEL: (505) 564-2281

FAX (505) 324-2022

RE: Enterprise Lateral 2C-45

OrderNo.: 1204655

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory received 4 sample(s) on 4/17/2012 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 www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

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

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1204655

Date Reported: 4/18/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-16

Project: Enterprise Lateral 2C-45

Collection Date: 4/15/2012 10:30:00 AM

Lab ID: 1204655-001

Matrix: SOIL

Received Date: 4/17/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/17/2012 11:49:13 AM
Surr: DNOP	98.8	77.4-131		%REC	1	4/17/2012 11:49:13 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/17/2012 11:47:49 AM
Surr: BFB	104	69.7-121		%REC	1	4/17/2012 11:47:49 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	4/17/2012 11:47:49 AM
Toluene	ND	0.050		mg/Kg	1	4/17/2012 11:47:49 AM
Ethylbenzene	ND	0.050		mg/Kg	1	4/17/2012 11:47:49 AM
Xylenes, Total	ND	0.10		mg/Kg	1	4/17/2012 11:47:49 AM
Surr: 4-Bromofluorobenzene	93.8	80-120		%REC	1	4/17/2012 11:47:49 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.

Analytical Report

Lab Order **1204655**

Date Reported: 4/18/2012

CLIENT: Animas Environmental Services

Client Sample ID: SC-17

Project: Enterprise Lateral 2C-45

Collection Date: 4/15/2012 11:02:00 AM

Lab ID: 1204655-002

Matrix: SOIL

Received Date: 4/17/2012 10:00:00 AM

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	4/17/2012 12:14:21 PM
Surr: DNOP	97.3	77.4-131		%REC	1	4/17/2012 12:14:21 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/17/2012 1:14:03 PM
Surr: BFB	103	69.7-121		%REC	1	4/17/2012 1:14:03 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	4/17/2012 1:14:03 PM
Toluene	ND	0.050		mg/Kg	1	4/17/2012 1:14:03 PM
Ethylbenzene	ND	0.050		mg/Kg	1	4/17/2012 1:14:03 PM
Xylenes, Total	ND	0.10		mg/Kg	1	4/17/2012 1:14:03 PM
Surr: 4-Bromofluorobenzene	93.3	80-120		%REC	1	4/17/2012 1:14:03 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

Analytical ReportLab Order **1204655**Date Reported: **4/18/2012****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Animas Environmental Services**Client Sample ID:** SC-18**Project:** Enterprise Lateral 2C-45**Collection Date:** 4/15/2012 2:33:00 PM**Lab ID:** 1204655-003**Matrix:** SOIL**Received Date:** 4/17/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/17/2012 12:39:41 PM
Surr: DNOP	96.5	77.4-131		%REC	1	4/17/2012 12:39:41 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/17/2012 1:42:56 PM
Surr: BFB	100	69.7-121		%REC	1	4/17/2012 1:42:56 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	4/17/2012 1:42:56 PM
Toluene	ND	0.050		mg/Kg	1	4/17/2012 1:42:56 PM
Ethylbenzene	ND	0.050		mg/Kg	1	4/17/2012 1:42:56 PM
Xylenes, Total	ND	0.10		mg/Kg	1	4/17/2012 1:42:56 PM
Surr: 4-Bromofluorobenzene	92.0	80-120		%REC	1	4/17/2012 1:42:56 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.

Analytical Report

Lab Order **1204655**

Date Reported: **4/18/2012**

CLIENT: Animas Environmental Services

Client Sample ID: SC-19

Project: Enterprise Lateral 2C-45

Collection Date: 4/15/2012 2:35:00 PM

Lab ID: 1204655-004

Matrix: SOIL

Received Date: 4/17/2012 10:00:00 AM

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	4/17/2012 1:05:17 PM
Surr: DNOP	94.0	77.4-131		%REC	1	4/17/2012 1:05:17 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/17/2012 2:11:48 PM
Surr: BFB	100	69.7-121		%REC	1	4/17/2012 2:11:48 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	0.13	0.050		mg/Kg	1	4/17/2012 2:11:48 PM
Toluene	ND	0.050		mg/Kg	1	4/17/2012 2:11:48 PM
Ethylbenzene	ND	0.050		mg/Kg	1	4/17/2012 2:11:48 PM
Xylenes, Total	ND	0.10		mg/Kg	1	4/17/2012 2:11:48 PM
Surr: 4-Bromofluorobenzene	92.9	80-120		%REC	1	4/17/2012 2:11:48 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1204655

18-Apr-12

Client: Animas Environmental Services

Project: Enterprise Lateral 2C-45

Sample ID	MB-1555		SampType: MBLK		TestCode: EPA Method 8015B: Diesel Range Organics					
Client ID:	PBS		Batch ID: 1555		RunNo: 2155					
Prep Date:	4/17/2012		Analysis Date: 4/17/2012		SeqNo: 60400		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	11		10.00		106	77.4	131			

Sample ID	LCS-1555		SampType: LCS		TestCode: EPA Method 8015B: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 1555		RunNo: 2155					
Prep Date:	4/17/2012		Analysis Date: 4/17/2012		SeqNo: 60401		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	55	10	50.00	0	109	62.7	139			
Surr: DNOP	4.5		5.000		90.8	77.4	131			

Sample ID	1204532-001AMS		SampType: MS		TestCode: EPA Method 8015B: Diesel Range Organics					
Client ID:	BatchQC		Batch ID: 1530		RunNo: 2155					
Prep Date:	4/13/2012		Analysis Date: 4/17/2012		SeqNo: 60424		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.5		5.015		90.3	77.4	131			

Sample ID	1204582-001AMS		SampType:	MS		TestCode:	EPA Method 8015B: Diesel Range Organics				
Client ID:	BatchQC		Batch ID:	1555		RunNo:	2194				
Prep Date:	4/17/2012		Analysis Date:	4/18/2012		SeqNo:	61126		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	130	9.9	49.50	70.58	120	57.2	146				
Surr: DNOP	5.8		4.950		118	77.4	131				

Sample ID	1204582-001AMSD		SampType:	MSD		TestCode:	EPA Method 8015B: Diesel Range Organics				
Client ID:	BatchQC		Batch ID:	1555		RunNo:	2194				
Prep Date:	4/17/2012		Analysis Date:	4/18/2012		SeqNo:	61142		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	120	9.8	48.97	70.58	104	57.2	146	6.92	26.7		
Surr: DNOP	5.4		4.897		110	77.4	131	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1204655

18-Apr-12

Client: Animas Environmental Services

Project: Enterprise Lateral 2C-45

Sample ID	5ML RB	SampType	MBLK	TestCode	EPA Method 8015B: Gasoline Range					
Client ID	PBS	Batch ID	R2171	RunNo	2171					
Prep Date:		Analysis Date	4/17/2012	SeqNo	60466	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

990

1,000

98.8

69.7

121

Sample ID	1204655-001AMS	SampType	MS	TestCode	EPA Method 8015B: Gasoline Range					
Client ID	SC-16	Batch ID	R2171	RunNo	2171					
Prep Date:		Analysis Date	4/17/2012	SeqNo	61136	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO)

19

5.0

17.17

2.912

94.8

85.4

147

Surr: BFB

750

686.9

109

69.7

121

Sample ID	1204655-001AMSD	SampType	MSD	TestCode	EPA Method 8015B: Gasoline Range					
Client ID	SC-16	Batch ID	R2171	RunNo	2171					
Prep Date:		Analysis Date	4/17/2012	SeqNo	61137	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO)

19

5.0

17.17

2.912

96.2

85.4

147

1.21

19.2

Surr: BFB

750

686.9

109

69.7

121

0

0

Sample ID	2.5UG GRO LCSB	SampType	LCS	TestCode	EPA Method 8015B: Gasoline Range					
Client ID	LCSS	Batch ID	R2171	RunNo	2171					
Prep Date:		Analysis Date	4/17/2012	SeqNo	61139	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

98.5

133

Surr: BFB

1,100

1,000

108

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#: 1204655
18-Apr-12

Client: Animas Environmental Services
Project: Enterprise Lateral 2C-45

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	R2171	RunNo:	2171					
Prep Date:		Analysis Date:	4/17/2012	SeqNo:	60474	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	0.92		1.000		91.8	80	120			

Sample ID	100NG BTEX LCS	SampType: LCS		TestCode: EPA Method 8021B: Volatiles						
Client ID:	LCSS	Batch ID: R2171		RunNo: 2171						
Prep Date:	Analysis Date: 4/17/2012		SeqNo: 61143		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.050	1.000	0	98.4	83.3	107			
Toluene	0.99	0.050	1.000	0	99.2	74.3	115			
Ethylbenzene	0.98	0.050	1.000	0	97.7	80.9	122			
Xylenes, Total	3.0	0.10	3.000	0	98.7	85.2	123			
Surr: 4-Bromofluorobenzene	0.97		1.000		97.3	80	120			

Sample ID	1204655-002AMS	SampType:	MS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	SC-17	Batch ID:	R2171	RunNo:	2171					
Prep Date:		Analysis Date:	4/17/2012	SeqNo:	61144	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.050	1.000	0.003847	91.1	67.2	113			
Toluene	0.94	0.050	1.000	0	93.6	62.1	116			
Ethylbenzene	0.94	0.050	1.000	0.004984	93.1	67.9	127			
Xylenes, Total	2.8	0.10	3.000	0	92.6	60.6	134			
Surr: 4-Bromofluorobenzene	0.96		1.000		96.2	80	120			

Sample ID	1204655-002AMSD			SampType: MSD	TestCode: EPA Method 8021B: Volatiles					
Client ID:	SC-17			Batch ID: R2171	RunNo: 2171					
Prep Date:				Analysis Date: 4/17/2012	SeqNo: 61145		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.050	1.000	0.003847	89.3	67.2	113	2.00	14.3	
Toluene	0.93	0.050	1.000	0	93.1	62.1	116	0.530	15.9	
Ethylbenzene	0.93	0.050	1.000	0.004984	92.9	67.9	127	0.211	14.4	
Xylenes, Total	2.8	0.10	3.000	0	93.8	60.6	134	1.30	12.6	
Surr: 4-Bromofluorobenzene	0.99		1.000		99.2	80	120	0	0	

Qualifiers:

* / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

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



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87105
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Animas Environmental

Work Order Number: 1204655

Received by/date: AT 04/17/12

Logged By: Anne Thorne 4/17/2012 10:00:00 AM

Completed By: Anne Thorne 4/17/2012

Reviewed By: mg 04/17/12

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 $>0^{\circ}\text{C}$ 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. VOA vials have zero headspace? 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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			



www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Client: Animas Environmental Services		Project Name: <input type="checkbox"/> Standard <input checked="" type="checkbox"/> Rush Same Day	
Billing Address: 624 E Comanche Farmington NM		Enterprise Lateral 2C-45	
Phone #: 505-564-2281		Project #:	
Mail or Fax#: 505-324-2022		Project Manager: Ross Kennemer	
VQC Package: <input type="checkbox"/> Level 4 (Full Validation)		Sampler: Thomas Long	
Standard <input type="checkbox"/> NELAP <input type="checkbox"/> Other			
Date		Time	
11/15/2012	10:30	SC-16	soil
11/15/2012	11:02	SC-17	soil
11/15/2012	14:33	SC-18	soil
11/15/2012	14:35	SC-19	soil
Relinquished by: Thomas Long		Received by: Christopher Lalor	
11/16/12	16:49	Date Time 4/16/12 16:49	
11/17/12	17:11	Date Time 11/17/12 17:11	

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

April 18, 2012

Ross Kennemer

Animas Environmental Services

624 East Comanche

Farmington, NM 87401

TEL: (505) 564-2281

FAX (505) 324-2022

RE: Enterprise Lateral 2C-45

OrderNo.: 1204539

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory received 6 sample(s) on 4/13/2012 for the analyses presented in the following report.

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

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

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical ReportLab Order **1204539**Date Reported: **4/18/2012****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Animas Environmental Services**Client Sample ID:** SC-10**Project:** Enterprise Lateral 2C-45**Collection Date:** 4/12/2012 8:50:00 AM**Lab ID:** 1204539-001**Matrix:** SOIL**Received Date:** 4/13/2012 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	14	10		mg/Kg	1	4/16/2012 9:59:09 AM
Surr: DNOP	108	77.4-131		%REC	1	4/16/2012 9:59:09 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/16/2012 11:39:18 PM
Surr: BFB	101	69.7-121		%REC	1	4/16/2012 11:39:18 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	4/16/2012 11:39:18 PM
Toluene	ND	0.048		mg/Kg	1	4/16/2012 11:39:18 PM
Ethylbenzene	ND	0.048		mg/Kg	1	4/16/2012 11:39:18 PM
Xylenes, Total	ND	0.097		mg/Kg	1	4/16/2012 11:39:18 PM
Surr: 4-Bromofluorobenzene	95.8	80-120		%REC	1	4/16/2012 11:39:18 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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1204539

Date Reported: 4/18/2012

CLIENT: Animas Environmental Services

Client Sample ID: SC-11

Project: Enterprise Lateral 2C-45

Collection Date: 4/12/2012 10:06:00 AM

Lab ID: 1204539-002

Matrix: SOIL

Received Date: 4/13/2012 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/16/2012 5:29:09 PM
Surr: DNOP	103	77.4-131		%REC	1	4/16/2012 5:29:09 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/17/2012 12:07:59 AM
Surr: BFB	101	69.7-121		%REC	1	4/17/2012 12:07:59 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	4/17/2012 12:07:59 AM
Toluene	ND	0.049		mg/Kg	1	4/17/2012 12:07:59 AM
Ethylbenzene	ND	0.049		mg/Kg	1	4/17/2012 12:07:59 AM
Xylenes, Total	ND	0.098		mg/Kg	1	4/17/2012 12:07:59 AM
Surr: 4-Bromofluorobenzene	95.6	80-120		%REC	1	4/17/2012 12:07:59 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 ReportLab Order **1204539**Date Reported: **4/18/2012****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Animas Environmental Services**Client Sample ID:** SC-12**Project:** Enterprise Lateral 2C-45**Collection Date:** 4/12/2012 10:58:00 AM**Lab ID:** 1204539-003**Matrix:** SOIL**Received Date:** 4/13/2012 9:45:00 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	4/16/2012 11:07:56 AM
Surr: DNOP	101	77.4-131		%REC	1	4/16/2012 11:07:56 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/17/2012 12:36:39 AM
Surr: BFB	102	69.7-121		%REC	1	4/17/2012 12:36:39 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	4/17/2012 12:36:39 AM
Toluene	ND	0.049		mg/Kg	1	4/17/2012 12:36:39 AM
Ethylbenzene	ND	0.049		mg/Kg	1	4/17/2012 12:36:39 AM
Xylenes, Total	ND	0.098		mg/Kg	1	4/17/2012 12:36:39 AM
Surr: 4-Bromofluorobenzene	96.2	80-120		%REC	1	4/17/2012 12:36:39 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.

Analytical Report

Lab Order 1204539

Date Reported: 4/18/2012

CLIENT: Animas Environmental Services

Client Sample ID: SC-13

Project: Enterprise Lateral 2C-45

Collection Date: 4/12/2012 11:15:00 AM

Lab ID: 1204539-004

Matrix: SOIL

Received Date: 4/13/2012 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/16/2012 11:29:15 AM
Surr: DNOP	107	77.4-131		%REC	1	4/16/2012 11:29:15 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/17/2012 1:05:19 AM
Surr: BFB	102	69.7-121		%REC	1	4/17/2012 1:05:19 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	4/17/2012 1:05:19 AM
Toluene	ND	0.050		mg/Kg	1	4/17/2012 1:05:19 AM
Ethylbenzene	ND	0.050		mg/Kg	1	4/17/2012 1:05:19 AM
Xylenes, Total	ND	0.10		mg/Kg	1	4/17/2012 1:05:19 AM
Surr: 4-Bromofluorobenzene	96.4	80-120		%REC	1	4/17/2012 1:05:19 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 ReportLab Order **1204539**Date Reported: **4/18/2012****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Animas Environmental Services**Client Sample ID:** SC-14**Project:** Enterprise Lateral 2C-45**Collection Date:** 4/12/2012 11:20:00 AM**Lab ID:** 1204539-005**Matrix:** SOIL**Received Date:** 4/13/2012 9:45:00 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	4/16/2012 12:12:08 PM
Surr: DNOP	100	77.4-131		%REC	1	4/16/2012 12:12:08 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/17/2012 1:34:07 AM
Surr: BFB	103	69.7-121		%REC	1	4/17/2012 1:34:07 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	4/17/2012 1:34:07 AM
Toluene	ND	0.048		mg/Kg	1	4/17/2012 1:34:07 AM
Ethylbenzene	ND	0.048		mg/Kg	1	4/17/2012 1:34:07 AM
Xylenes, Total	ND	0.096		mg/Kg	1	4/17/2012 1:34:07 AM
Surr: 4-Bromofluorobenzene	96.6	80-120		%REC	1	4/17/2012 1:34:07 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.

Analytical Report

Lab Order **1204539**

Date Reported: **4/18/2012**

CLIENT: Animas Environmental Services

Client Sample ID: SC-15

Project: Enterprise Lateral 2C-45

Collection Date: 4/12/2012 11:55:00 AM

Lab ID: 1204539-006

Matrix: SOIL

Received Date: 4/13/2012 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/16/2012 12:33:21 PM
Surr: DNOP	98.4	77.4-131		%REC	1	4/16/2012 12:33:21 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/17/2012 2:02:53 AM
Surr: BFB	102	69.7-121		%REC	1	4/17/2012 2:02:53 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	4/17/2012 2:02:53 AM
Toluene	ND	0.048		mg/Kg	1	4/17/2012 2:02:53 AM
Ethylbenzene	ND	0.048		mg/Kg	1	4/17/2012 2:02:53 AM
Xylenes, Total	ND	0.095		mg/Kg	1	4/17/2012 2:02:53 AM
Surr: 4-Bromofluorobenzene	96.4	80-120		%REC	1	4/17/2012 2:02:53 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1204539

18-Apr-12

Client: Animas Environmental Services

Project: Enterprise Lateral 2C-45

Sample ID	MB-1530		SampType: MBLK		TestCode: EPA Method 8015B: Diesel Range Organics					
Client ID:	PBS		Batch ID: 1530		RunNo: 2143					
Prep Date:	4/13/2012		Analysis Date: 4/16/2012		SeqNo: 59548		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	9.9		10.00		99.2	77.4	131			

Sample ID	LCS-1530		SampType: LCS		TestCode: EPA Method 8015B: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 1530		RunNo: 2143					
Prep Date:	4/13/2012		Analysis Date: 4/16/2012		SeqNo: 59549		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	36	10	50.00	0	72.8	62.7	139			
Surr: DNOP	4.4		5.000		87.5	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.

WO#: 1204539

18-Apr-12

Client: Animas Environmental Services

Project: Enterprise Lateral 2C-45

Sample ID	MB-1523	SampType	MBLK	TestCode	EPA Method 8015B: Gasoline Range					
Client ID	PBS	Batch ID	1523	RunNo	2146					
Prep Date	4/13/2012	Analysis Date	4/16/2012	SeqNo	59997	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

1,000

1,000

101

69.7

121

Sample ID	LCS-1523	SampType	LCS	TestCode	EPA Method 8015B: Gasoline Range					
Client ID	LCSS	Batch ID	1523	RunNo	2146					
Prep Date	4/13/2012	Analysis Date	4/16/2012	SeqNo	59998	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

116

98.5

133

Surr: BFB

1,100

1,000

108

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#: 1204539

18-Apr-12

Client: Animas Environmental Services

Project: Enterprise Lateral 2C-45

Sample ID	MB-1523		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	1523		RunNo:	2146			
Prep Date:	4/13/2012		Analysis Date:	4/16/2012		SeqNo:	60070		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	0.96		1.000		96.2	80	120			

Sample ID	LCS-1523		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	1523		RunNo:	2146			
Prep Date:	4/13/2012		Analysis Date:	4/16/2012		SeqNo:	60071		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.050	1.000	0	92.0	83.3	107			
Toluene	0.94	0.050	1.000	0	94.4	74.3	115			
Ethylbenzene	0.94	0.050	1.000	0	93.8	80.9	122			
Xylenes, Total	2.8	0.10	3.000	0	94.8	85.2	123			
Surr: 4-Bromofluorobenzene	0.99		1.000		98.9	80	120			

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87106
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	Animas Environmental	Work Order Number:	1204539
Received by/date:	AG 04/13/12		
Logged By:	Michelle Garcia	4/13/2012 9:45:00 AM	Michelle Garcia
Completed By:	Michelle Garcia	4/13/2012 10:27:49 AM	Michelle Garcia
Reviewed By:	[Signature]	04/13/12	

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 $>0^{\circ}\text{C}$ 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. VOA vials have zero headspace? 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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.3	Good	Yes			



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

April 12, 2012

Ross Kennemer

Animas Environmental Services

624 East Comanche

Farmington, NM 87401

TEL: (505) 564-2281

FAX (505) 324-2022

RE: Enterprise Lateral 2C-45

OrderNo.: 1204490

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/12/2012 for the analyses presented in the following report.

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

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

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical ReportLab Order **1204490**Date Reported: **4/12/2012****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Animas Environmental Services**Client Sample ID:** GW-2**Project:** Enterprise Lateral 2C-45**Collection Date:** 4/11/2012 9:10:00 AM**Lab ID:** 1204490-001**Matrix:** AQUEOUS**Received Date:** 4/12/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: RAA
Benzene	60	5.0		µg/L	5	4/12/2012 1:16:43 PM
Toluene	6.6	5.0		µg/L	5	4/12/2012 1:16:43 PM
Ethylbenzene	ND	5.0		µg/L	5	4/12/2012 1:16:43 PM
Xylenes, Total	ND	10		µg/L	5	4/12/2012 1:16:43 PM
Surr: 1,2-Dichloroethane-d4	85.1	70-130		%REC	5	4/12/2012 1:16:43 PM
Surr: 4-Bromofluorobenzene	97.4	70-130		%REC	5	4/12/2012 1:16:43 PM
Surr: Dibromofluoromethane	83.4	69.8-130		%REC	5	4/12/2012 1:16:43 PM
Surr: Toluene-d8	87.9	70-130		%REC	5	4/12/2012 1:16:43 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1204490

12-Apr-12

Client: Animas Environmental Services

Project: Enterprise Lateral 2C-45

Sample ID	5ml-rb	SampType	MBLK	TestCode	EPA Method 8260: Volatiles Short List					
Client ID	PBW	Batch ID	R2088	RunNo	2088					
Prep Date:		Analysis Date	4/12/2012	SeqNo	58017	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	8.6		10.00		85.9	70	130			
Surr: 4-Bromofluorobenzene	9.4		10.00		93.9	70	130			
Surr: Dibromofluoromethane	8.5		10.00		85.3	69.8	130			
Surr: Toluene-d8	9.1		10.00		91.0	70	130			

Sample ID	100ng lcs	SampType	LCS	TestCode	EPA Method 8260: Volatiles Short List					
Client ID	LCSW	Batch ID	R2088	RunNo	2088					
Prep Date:		Analysis Date	4/12/2012	SeqNo	58019	Units	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	93.9	84.1	126			
Toluene	20	1.0	20.00	0	100	80	120			
Surr: 1,2-Dichloroethane-d4	8.2		10.00		81.9	70	130			
Surr: 4-Bromofluorobenzene	9.2		10.00		92.1	70	130			
Surr: Dibromofluoromethane	7.8		10.00		78.5	69.8	130			
Surr: Toluene-d8	9.1		10.00		90.6	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
4901 Hawkins NE
Albuquerque, NM 87105
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Animas Environmental Work Order Number: 1204490
Received by/date: AT 04/12/12 LM
Logged By: Anne Thorne 4/12/2012 10:00:00 AM *Am Th*
Completed By: Anne Thorne 4/12/2012 *Am Th*
Reviewed By: AT 04/12/12

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 $>0^{\circ}\text{C}$ 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. VOA vials have zero headspace? 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 ☐

All
VOA's have headspace
AT 04/12/12

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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.9	Good	Yes			

Chain-of-Custody Record

Client: Animas Environmental Services

Billing Address: 624 E Comanche Farmington NM

Phone #: Farmington, NM 87401

505-564-2281

505-324-2022

QC Package:

Standard ☐ Level 4 (Full Validation)

Accreditation:

NELAP ☐ Other

EDD (Type)

Date Time Matrix Sample Request ID

11/2012 9:10

water

GW-2

Container Type and #

3 VOAs

Preservative Type

HCL

8021 BTEX

X

Y

Air Bubbles (Y or N)

ENTERPRISE LATERAL

☐ Standard ☒ Rush Same Day

Project Name: Enterprise Lateral 2C-45

Project #:

Project Manager: Ross Kennemer

Sampler: Thomas Long

Analysis Request

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Remarks: Bill to Enterprise

Received by: *Thomas Long* Date Time: 11/12 1741

Received by: *Thomas Long* Date Time: 11/12 1741

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

April 19, 2012

Ross Kennemer

Animas Environmental Services

624 East Comanche

Farmington, NM 87401

TEL: (505) 564-2281

FAX (505) 324-2022

RE: Enterprise Lateral 2C-45

OrderNo.: 1204432

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory received 7 sample(s) on 4/11/2012 for the analyses presented in the following report.

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

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

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1204432**

Date Reported: 4/19/2012

CLIENT: Animas Environmental Services

Client Sample ID: SC-1

Project: Enterprise Lateral 2C-45

Collection Date: 4/9/2012 1:35:00 PM

Lab ID: 1204432-001

Matrix: SOIL

Received Date: 4/11/2012 10:05:00 AM

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	4/13/2012 8:06:13 AM
Surr: DNOP	99.7	77.4-131		%REC	1	4/13/2012 8:06:13 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/13/2012 6:45:41 PM
Surr: BFB	101	69.7-121		%REC	1	4/13/2012 6:45:41 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	4/13/2012 6:45:41 PM
Toluene	ND	0.047		mg/Kg	1	4/13/2012 6:45:41 PM
Ethylbenzene	ND	0.047		mg/Kg	1	4/13/2012 6:45:41 PM
Xylenes, Total	ND	0.094		mg/Kg	1	4/13/2012 6:45:41 PM
Surr: 4-Bromofluorobenzene	94.3	80-120		%REC	1	4/13/2012 6:45:41 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

Analytical Report

Lab Order 1204432

Date Reported: 4/19/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-2

Project: Enterprise Lateral 2C-45

Collection Date: 4/9/2012 2:50:00 PM

Lab ID: 1204432-002

Matrix: SOIL

Received Date: 4/11/2012 10:05:00 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	4/13/2012 8:27:45 AM
Surr: DNOP	101	77.4-131		%REC	1	4/13/2012 8:27:45 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/13/2012 7:14:31 PM
Surr: BFB	101	69.7-121		%REC	1	4/13/2012 7:14:31 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	4/13/2012 7:14:31 PM
Toluene	ND	0.050		mg/Kg	1	4/13/2012 7:14:31 PM
Ethylbenzene	ND	0.050		mg/Kg	1	4/13/2012 7:14:31 PM
Xylenes, Total	ND	0.10		mg/Kg	1	4/13/2012 7:14:31 PM
Surr: 4-Bromofluorobenzene	95.8	80-120		%REC	1	4/13/2012 7:14:31 PM

Qualifiers: */X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1204432

Date Reported: 4/19/2012

CLIENT: Animas Environmental Services

Client Sample ID: SC-3

Project: Enterprise Lateral 2C-45

Collection Date: 4/9/2012 3:01:00 PM

Lab ID: 1204432-003

Matrix: SOIL

Received Date: 4/11/2012 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JPM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/13/2012 8:49:21 AM
Surr: DNOP	99.9	77.4-131		%REC	1	4/13/2012 8:49:21 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/13/2012 7:43:19 PM
Surr: BFB	102	69.7-121		%REC	1	4/13/2012 7:43:19 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	4/13/2012 7:43:19 PM
Toluene	ND	0.048		mg/Kg	1	4/13/2012 7:43:19 PM
Ethylbenzene	ND	0.048		mg/Kg	1	4/13/2012 7:43:19 PM
Xylenes, Total	ND	0.097		mg/Kg	1	4/13/2012 7:43:19 PM
Surr: 4-Bromofluorobenzene	97.5	80-120		%REC	1	4/13/2012 7:43:19 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

Analytical Report

Lab Order 1204432

Date Reported: 4/19/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-4

Project: Enterprise Lateral 2C-45

Collection Date: 4/10/2012 9:35:00 AM

Lab ID: 1204432-004

Matrix: SOIL

Received Date: 4/11/2012 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/13/2012 9:10:57 AM
Surr: DNOP	105	77.4-131		%REC	1	4/13/2012 9:10:57 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/13/2012 8:12:09 PM
Surr: BFB	102	69.7-121		%REC	1	4/13/2012 8:12:09 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	4/13/2012 8:12:09 PM
Toluene	ND	0.049		mg/Kg	1	4/13/2012 8:12:09 PM
Ethylbenzene	ND	0.049		mg/Kg	1	4/13/2012 8:12:09 PM
Xylenes, Total	ND	0.098		mg/Kg	1	4/13/2012 8:12:09 PM
Surr: 4-Bromofluorobenzene	95.3	80-120		%REC	1	4/13/2012 8:12:09 PM

Qualifiers: */X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1204432

Date Reported: 4/19/2012

CLIENT: Animas Environmental Services

Client Sample ID: SC-6

Project: Enterprise Lateral 2C-45

Collection Date: 4/10/2012 11:55:00 AM

Lab ID: 1204432-005

Matrix: SOIL

Received Date: 4/11/2012 10:05:00 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	4/13/2012 9:32:22 AM
Surr: DNOP	102	77.4-131		%REC	1	4/13/2012 9:32:22 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/13/2012 8:40:58 PM
Surr: BFB	100	69.7-121		%REC	1	4/13/2012 8:40:58 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	4/13/2012 8:40:58 PM
Toluene	ND	0.048		mg/Kg	1	4/13/2012 8:40:58 PM
Ethylbenzene	ND	0.048		mg/Kg	1	4/13/2012 8:40:58 PM
Xylenes, Total	ND	0.097		mg/Kg	1	4/13/2012 8:40:58 PM
Surr: 4-Bromofluorobenzene	94.4	80-120		%REC	1	4/13/2012 8:40:58 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

Analytical ReportLab Order **1204432**Date Reported: **4/19/2012****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Animas Environmental Services**Client Sample ID:** SC-7**Project:** Enterprise Lateral 2C-45**Collection Date:** 4/10/2012 12:20:00 PM**Lab ID:** 1204432-006**Matrix:** SOIL**Received Date:** 4/11/2012 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	56	9.7		mg/Kg	1	4/13/2012 9:53:46 AM
Surr: DNOP	107	77.4-131		%REC	1	4/13/2012 9:53:46 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	9.6		mg/Kg	2	4/13/2012 9:09:43 PM
Surr: BFB	108	69.7-121		%REC	2	4/13/2012 9:09:43 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.096		mg/Kg	2	4/13/2012 9:09:43 PM
Toluene	ND	0.096		mg/Kg	2	4/13/2012 9:09:43 PM
Ethylbenzene	ND	0.096		mg/Kg	2	4/13/2012 9:09:43 PM
Xylenes, Total	ND	0.19		mg/Kg	2	4/13/2012 9:09:43 PM
Surr: 4-Bromofluorobenzene	95.4	80-120		%REC	2	4/13/2012 9:09:43 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.

Analytical Report

Lab Order **1204432**

Date Reported: **4/19/2012**

CLIENT: Animas Environmental Services

Client Sample ID: GW-1

Project: Enterprise Lateral 2C-45

Collection Date: 4/10/2012 9:25:00 AM

Lab ID: 1204432-007

Matrix: AQUEOUS

Received Date: 4/11/2012 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	5.0		µg/L	2	4/18/2012 11:22:56 AM
Benzene	ND	2.0		µg/L	2	4/18/2012 11:22:56 AM
Toluene	ND	2.0		µg/L	2	4/18/2012 11:22:56 AM
Ethylbenzene	ND	2.0		µg/L	2	4/18/2012 11:22:56 AM
Xylenes, Total	ND	4.0		µg/L	2	4/18/2012 11:22:56 AM
Surr: 4-Bromofluorobenzene	91.6	55-140		%REC	2	4/18/2012 11:22:56 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1204432

19-Apr-12

Client: Animas Environmental Services

Project: Enterprise Lateral 2C-45

Sample ID	MB-1505	SampType:	MBLK	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	PBS	Batch ID:	1505	RunNo:	2071					
Prep Date:	4/12/2012	Analysis Date:	4/12/2012	SeqNo:	57799	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	9.5		10.00		95.4	77.4	131			

Sample ID	LCS-1505	SampType:	LCS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	1505	RunNo:	2071					
Prep Date:	4/12/2012	Analysis Date:	4/12/2012	SeqNo:	57804	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	10	50.00	0	82.3	62.7	139			
Surr: DNOP	4.5		5.000		89.5	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.

WO#: 1204432

19-Apr-12

Client: Animas Environmental Services

Project: Enterprise Lateral 2C-45

Sample ID	MB-1506	SampType:	MBLK	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	PBS	Batch ID:	1506	RunNo:	2117					
Prep Date:	4/12/2012	Analysis Date:	4/13/2012	SeqNo:	58990	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

1,000

1,000

102

69.7

121

Sample ID	LCS-1506	SampType:	LCS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	LCSS	Batch ID:	1506	RunNo:	2117					
Prep Date:	4/12/2012	Analysis Date:	4/13/2012	SeqNo:	58991	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO)

32

5.0

25.00

0

130

98.5

133

Surr: BFB

1,100

1,000

113

69.7

121

Sample ID	1204425-002AMS	SampType:	MS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	BatchQC	Batch ID:	1506	RunNo:	2117					
Prep Date:	4/12/2012	Analysis Date:	4/13/2012	SeqNo:	59002	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO)

29

4.9

24.56

0

118

85.4

147

Surr: BFB

1,000

982.3

106

69.7

121

Sample ID	1204425-002AMSD	SampType:	MSD	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	BatchQC	Batch ID:	1506	RunNo:	2117					
Prep Date:	4/12/2012	Analysis Date:	4/13/2012	SeqNo:	59003	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO)

32

4.8

24.11

0

132

85.4

147

9.77

19.2

Surr: BFB

1,100

964.3

110

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1204432

19-Apr-12

Client: Animas Environmental Services

Project: Enterprise Lateral 2C-45

Sample ID	MB-1506		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	1506		RunNo:	2117			
Prep Date:	4/12/2012		Analysis Date:	4/13/2012		SeqNo:	59006		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	0.96		1.000		96.2	80	120			

Sample ID	LCS-1506		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	1506		RunNo:	2117			
Prep Date:	4/12/2012		Analysis Date:	4/13/2012		SeqNo:	59007		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.050	1.000	0	98.8	83.3	107			
Toluene	1.0	0.050	1.000	0	100	74.3	115			
Ethylbenzene	0.99	0.050	1.000	0	99.2	80.9	122			
Xylenes, Total	3.0	0.10	3.000	0	99.4	85.2	123			
Surr: 4-Bromofluorobenzene	0.98		1.000		98.4	80	120			

Sample ID	1204432-001AMS		SampType:	MS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	SC-1		Batch ID:	1506		RunNo:	2117			
Prep Date:	4/12/2012		Analysis Date:	4/14/2012		SeqNo:	59015		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.048	0.9671	0	104	67.2	113			
Toluene	1.0	0.048	0.9671	0	108	62.1	116			
Ethylbenzene	1.0	0.048	0.9671	0	107	67.9	127			
Xylenes, Total	3.1	0.097	2.901	0	107	60.6	134			
Surr: 4-Bromofluorobenzene	0.98		0.9671		101	80	120			

Sample ID	1204432-001AMSD		SampType:	MSD		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	SC-1		Batch ID:	1506		RunNo:	2117			
Prep Date:	4/12/2012		Analysis Date:	4/14/2012		SeqNo:	59016		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.048	0.9579	0	107	67.2	113	2.04	14.3	
Toluene	1.1	0.048	0.9579	0	111	62.1	116	1.81	15.9	
Ethylbenzene	1.0	0.048	0.9579	0	109	67.9	127	1.49	14.4	
Xylenes, Total	3.1	0.096	2.874	0	109	60.6	134	0.760	12.6	
Surr: 4-Bromofluorobenzene	0.95		0.9579		99.6	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1204432

19-Apr-12

Client: Animas Environmental Services

Project: Enterprise Lateral 2C-45

Sample ID	5ML RB	SampType	MBLK	TestCode	EPA Method 8021B: Volatiles					
Client ID	PBW	Batch ID	R2130	RunNo	2130					
Prep Date:		Analysis Date	4/13/2012	SeqNo	59053	Units	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	15		20.00		74.2	55	140			

Sample ID	100NG BTEX LCS	SampType	LCS	TestCode	EPA Method 8021B: Volatiles					
Client ID	LCSW	Batch ID	R2130	RunNo	2130					
Prep Date:		Analysis Date	4/13/2012	SeqNo	59054	Units	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	22		20.00		112	55	140			

Sample ID	1204302-001AMS	SampType	MS	TestCode	EPA Method 8021B: Volatiles					
Client ID	BatchQC	Batch ID	R2130	RunNo	2130					
Prep Date:		Analysis Date	4/14/2012	SeqNo	59076	Units	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	23		20.00		117	55	140			

Sample ID	1204302-001AMSD	SampType	MSD	TestCode	EPA Method 8021B: Volatiles					
Client ID	BatchQC	Batch ID	R2130	RunNo	2130					
Prep Date:		Analysis Date	4/14/2012	SeqNo	59077	Units	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	22		20.00		111	55	140	0	0	

Sample ID	5ML RB	SampType	MBLK	TestCode	EPA Method 8021B: Volatiles					
Client ID	PBW	Batch ID	R2230	RunNo	2230					
Prep Date:		Analysis Date	4/18/2012	SeqNo	61767	Units	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	2.5								
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
Surr: 4-Bromofluorobenzene	22		20.00		108	55	140			

Sample ID	100NG BTEX LCS	SampType	LCS	TestCode	EPA Method 8021B: Volatiles					
Client ID	LCSW	Batch ID	R2230	RunNo	2230					
Prep Date:		Analysis Date	4/18/2012	SeqNo	61768	Units	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

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#: 1204432

19-Apr-12

Client: Animas Environmental Services

Project: Enterprise Lateral 2C-45

Sample ID	100NG BTEX LCS			SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles		
Client ID:	LCSW		Batch ID:	R2230		RunNo:	2230			
Prep Date:				Analysis Date:	4/18/2012		SeqNo:	61768		
							Units:	µg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	21	2.5	20.00	0	103	50.5	158			
Benzene	21	1.0	20.00	0	107	80	120			
Toluene	21	1.0	20.00	0	106	80	120			
Ethylbenzene	21	1.0	20.00	0	105	80	120			
Xylenes, Total	63	2.0	60.00	0	105	80	120			
1,2,4-Trimethylbenzene	20	1.0	20.00	0	101	80	120			
1,3,5-Trimethylbenzene	21	1.0	20.00	0	105	80	120			
Surr: 4-Bromofluorobenzene	20		20.00		98.0	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



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: 1204432

Received by/date:

04/11/12

Logged By:

Ashley Gallegos

4/11/2012 10:05:00 AM

Completed By:

Ashley Gallegos

4/11/2012 10:48:27 AM

Reviewed By:

AR 04/11/12

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 $>0^{\circ}\text{C}$ 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. VOA vials have zero headspace? 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:

Date:

By Whom:

Via:

eMail

Phone

Fax

In Person

Regarding:

Client Instructions:

18. Additional remarks:

19. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.3	Good	Yes			

Validation/Consistency Review

Client: Animas Environmental Services

Mailing Address 624 E Comanche Farmington NM

Farmington, NM 87401

Phone #: 505-564-2281

Email or Fax#: 505-324-2022

A/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation:

☒ NELAP ☐ Other

☐ EDD (Type)

Sampler: T. Long

Project Manager:

R. Kennemer

☒ Standard ☐ Rush

Project Name:

Enterprise Lateral 20-45

Project #:



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	Air Bubbles (Y or N)
9-12	1335	Soil	SC-1	4oz	non	
9-12	1450	Soil	SC-2			
9-12	1501	Soil	SC-3			
10-12	0935	Soil	SC-4			
10-12	1155	Soil	SC-6			
10-12	1250	Soil	SC-7			
10-12	0925	Water	GW-1	3-40mL	HCl	

Date: 10-12	Time: 1657	Relinquished by: [Signature]	Received by: [Signature]	Date: 10/12	Time: 1657
Date: 10/12	Time: 1717	Relinquished by: [Signature]	Received by: [Signature]	Date: 10/12	Time: 1005

Remarks:



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

April 12, 2012

Ross Kennemer

Animas Environmental Services

624 East Comanche

Farmington, NM 87401

TEL: (505) 564-2281

FAX (505) 324-2022

RE: Enterprise Lateral 2C-45

OrderNo.: 1204426

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory received 3 sample(s) on 4/11/2012 for the analyses presented in the following report.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1204426

Date Reported: 4/12/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-5

Project: Enterprise Lateral 2C-45

Collection Date: 4/10/2012 10:50:00 AM

Lab ID: 1204426-001

Matrix: MEOH (SOIL)

Received Date: 4/11/2012 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	16	10		mg/Kg	1	4/11/2012 11:52:13 AM
Surr: DNOP	110	77.4-131		%REC	1	4/11/2012 11:52:13 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	53	5.0		mg/Kg	1	4/11/2012 11:34:14 AM
Surr: BFB	231	69.7-121	S	%REC	1	4/11/2012 11:34:14 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	0.17	0.050		mg/Kg	1	4/11/2012 11:34:14 AM
Toluene	2.0	0.050		mg/Kg	1	4/11/2012 11:34:14 AM
Ethylbenzene	0.73	0.050		mg/Kg	1	4/11/2012 11:34:14 AM
Xylenes, Total	7.0	0.10		mg/Kg	1	4/11/2012 11:34:14 AM
Surr: 4-Bromofluorobenzene	116	80-120		%REC	1	4/11/2012 11:34:14 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.

Analytical Report

Lab Order 1204426

Date Reported: 4/12/2012

CLIENT: Animas Environmental Services

Client Sample ID: SC-8

Project: Enterprise Lateral 2C-45

Collection Date: 4/10/2012 1:35:00 PM

Lab ID: 1204426-002

Matrix: MEOH (SOIL)

Received Date: 4/11/2012 10:05:00 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	4/11/2012 12:13:37 PM
Surr: DNOP	104	77.4-131		%REC	1	4/11/2012 12:13:37 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/11/2012 1:29:21 PM
Surr: BFB	112	69.7-121		%REC	1	4/11/2012 1:29:21 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	0.064	0.050		mg/Kg	1	4/11/2012 1:29:21 PM
Toluene	0.062	0.050		mg/Kg	1	4/11/2012 1:29:21 PM
Ethylbenzene	ND	0.050		mg/Kg	1	4/11/2012 1:29:21 PM
Xylenes, Total	0.29	0.10		mg/Kg	1	4/11/2012 1:29:21 PM
Surr: 4-Bromofluorobenzene	99.9	80-120		%REC	1	4/11/2012 1:29:21 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

Analytical ReportLab Order **1204426**Date Reported: **4/12/2012****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Animas Environmental Services**Client Sample ID:** SC-9**Project:** Enterprise Lateral 2C-45**Collection Date:** 4/10/2012 1:55:00 PM**Lab ID:** 1204426-003**Matrix:** MEOH (SOIL)**Received Date:** 4/11/2012 10:05:00 AM

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	4/11/2012 12:56:44 PM
Surr: DNOP	106	77.4-131		%REC	1	4/11/2012 12:56:44 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	5.3	5.0		mg/Kg	1	4/11/2012 1:58:13 PM
Surr: BFB	110	69.7-121		%REC	1	4/11/2012 1:58:13 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	0.062	0.050		mg/Kg	1	4/11/2012 1:58:13 PM
Toluene	ND	0.050		mg/Kg	1	4/11/2012 1:58:13 PM
Ethylbenzene	ND	0.050		mg/Kg	1	4/11/2012 1:58:13 PM
Xylenes, Total	ND	0.10		mg/Kg	1	4/11/2012 1:58:13 PM
Surr: 4-Bromofluorobenzene	101	80-120		%REC	1	4/11/2012 1:58:13 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1204426

12-Apr-12

Client: Animas Environmental Services

Project: Enterprise Lateral 2C-45

Sample ID	MB-1481	SampType	MBLK	TestCode	EPA Method 8015B: Diesel Range Organics					
Client ID	PBS	Batch ID	1481	RunNo	2046					
Prep Date	4/11/2012	Analysis Date	4/11/2012	SeqNo	57041	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	9.9		10.00		99.4	77.4	131			

Sample ID	LCS-1481	SampType	LCS	TestCode	EPA Method 8015B: Diesel Range Organics					
Client ID	LCSS	Batch ID	1481	RunNo	2046					
Prep Date	4/11/2012	Analysis Date	4/11/2012	SeqNo	57042	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	10	50.00	0	82.8	62.7	139			
Surr: DNOP	4.7		5.000		93.0	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.

WO#: 1204426

12-Apr-12

Client: Animas Environmental Services

Project: Enterprise Lateral 2C-45

Sample ID B5	SampType: MBLK		TestCode: EPA Method 8015B: Gasoline Range							
Client ID: PBS	Batch ID: R2054		RunNo: 2054							
Prep Date:	Analysis Date: 4/11/2012		SeqNo: 57183		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	1,000		1,000		100	69.7	121			

Sample ID 2.5UG GRO LCS	SampType: LCS		TestCode: EPA Method 8015B: Gasoline Range							
Client ID: LCSS	Batch ID: R2054		RunNo: 2054							
Prep Date:	Analysis Date: 4/11/2012		SeqNo: 57436		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	113	98.5	133			
Surr: BFB	1,100		1,000		111	69.7	121			

Sample ID 1204426-002AMS	SampType: MS		TestCode: EPA Method 8015B: Gasoline Range							
Client ID: SC-8	Batch ID: R2054		RunNo: 2054							
Prep Date:	Analysis Date: 4/11/2012		SeqNo: 57437		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	16.24	7.147	94.7	85.4	147			
Surr: BFB	770		649.7		119	69.7	121			

Sample ID 1204426-002AMSD	SampType: MSD		TestCode: EPA Method 8015B: Gasoline Range							
Client ID: SC-8	Batch ID: R2054		RunNo: 2054							
Prep Date:	Analysis Date: 4/11/2012		SeqNo: 57438		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	16.24	7.147	90.0	85.4	147	3.46	19.2	
Surr: BFB	790		649.7		121	69.7	121	0	0	S

Qualifiers:

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1204426

12-Apr-12

Client: Animas Environmental Services

Project: Enterprise Lateral 2C-45

Sample ID	B5	SampType	MBLK	TestCode	EPA Method 8021B: Volatiles					
Client ID	PBS	Batch ID	R2054	RunNo	2054					
Prep Date:		Analysis Date:	4/11/2012	SeqNo	57190	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	0.96		1.000		95.8	80	120			

Sample ID	1204426-003AMS	SampType	MS	TestCode	EPA Method 8021B: Volatiles					
Client ID	SC-9	Batch ID	R2054	RunNo	2054					
Prep Date:		Analysis Date:	4/11/2012	SeqNo	57456	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.80	0.050	0.7231	0.06074	102	67.2	113			
Toluene	0.77	0.050	0.7231	0.01529	104	62.1	116			
Ethylbenzene	0.76	0.050	0.7231	0.01724	102	67.9	127			
Xylenes, Total	2.3	0.10	2.169	0.08661	103	60.6	134			
Surr: 4-Bromofluorobenzene	0.73		0.7231		101	80	120			

Sample ID	1204426-003AMSD	SampType	MSD	TestCode	EPA Method 8021B: Volatiles					
Client ID	SC-9	Batch ID	R2054	RunNo	2054					
Prep Date:		Analysis Date:	4/11/2012	SeqNo	57457	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.74	0.050	0.7231	0.06074	94.1	67.2	113	7.45	14.3	
Toluene	0.72	0.050	0.7231	0.01529	96.8	62.1	116	6.98	15.9	
Ethylbenzene	0.70	0.050	0.7231	0.01724	94.3	67.9	127	8.10	14.4	
Xylenes, Total	2.1	0.10	2.169	0.08661	94.3	60.6	134	8.30	12.6	
Surr: 4-Bromofluorobenzene	0.74		0.7231		103	80	120	0	0	

Sample ID	100NG BTEX LCS	SampType	LCS	TestCode	EPA Method 8021B: Volatiles					
Client ID	LCSS	Batch ID	R2054	RunNo	2054					
Prep Date:		Analysis Date:	4/11/2012	SeqNo	57458	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.050	1.000	0	97.9	83.3	107			
Toluene	1.0	0.050	1.000	0	100	74.3	115			
Ethylbenzene	0.98	0.050	1.000	0	97.7	80.9	122			
Xylenes, Total	3.0	0.10	3.000	0	99.7	85.2	123			
Surr: 4-Bromofluorobenzene	0.99		1.000		98.6	80	120			

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



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87106
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Animas Environmental

Work Order Number: 1204426

Received by/date:

04/11/12

Logged By: Ashley Gallegos

4/11/2012 10:05:00 AM

Completed By: Ashley Gallegos

4/11/2012 10:08:16 AM

Reviewed By:

04/11/12

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 $>0^{\circ}\text{C}$ 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. VOA vials have zero headspace? 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:

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	2.3	Good	Not Present			

Client: Animas Environmental Services

Mailing Address 624 E Comanche Farmington NM

Farmington, NM 87401

Phone #: 505-564-2281

Email or Fax#: 505-324-2022

AVQC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation:

☒ NELAP ☐ Other

EDD (Type)

Sample Request ID

Matrix

Date

Time

SC-5

Soil

10-12 1050

SC-8

Soil

10-12 1335

SC-9

Soil

10-12 1355

Relinquished by:

Time: 11:57

Date: 10-12

Relinquished by:

Time: 1717

Date: 10-12

Received by:

Date

Time

Remarks:

Bill to Enterprise

Date

Time

Received by:

Date

Time

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Project Manager:

R. Kennemer

Sampler:

T. Long

Container Type and #

Preservative Type

1-402

none

-001

-002

-003

8021 BTEX

8015 TPH (GRO/DRO)

Air Bubbles (Y or N)



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

May 01, 2012

Ross Kennemer

Animas Environmental Services

624 East Comanche

Farmington, NM 87401

TEL: (505) 486-1776

FAX: (505) 324-2022

RE: Enterprise Lateral 2C-45

OrderNo.: 1204A10

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory received 9 sample(s) on 4/26/2012 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued May 1, 2012.

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

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

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1204A10**

Date Reported: 5/1/2012

CLIENT: Animas Environmental Services

Client Sample ID: SC-31

Project: Enterprise Lateral 2C-45

Collection Date: 4/24/2012 9:40:00 AM

Lab ID: 1204A10-001

Matrix: SOIL

Received Date: 4/26/2012 9:58:00 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	4/27/2012 9:35:52 AM
Surr: DNOP	103	77.4-131		%REC	1	4/27/2012 9:35:52 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/28/2012 7:02:51 AM
Surr: BFB	98.2	69.7-121		%REC	1	4/28/2012 7:02:51 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	4/28/2012 7:02:51 AM
Toluene	ND	0.048		mg/Kg	1	4/28/2012 7:02:51 AM
Ethylbenzene	ND	0.048		mg/Kg	1	4/28/2012 7:02:51 AM
Xylenes, Total	ND	0.095		mg/Kg	1	4/28/2012 7:02:51 AM
Surr: 4-Bromofluorobenzene	88.7	80-120		%REC	1	4/28/2012 7:02:51 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 1204A10

Date Reported: 5/1/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-32

Project: Enterprise Lateral 2C-45

Collection Date: 4/24/2012 11:25:00 AM

Lab ID: 1204A10-002

Matrix: SOIL

Received Date: 4/26/2012 9:58:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/27/2012 10:40:41 AM
Surr: DNOP	103	77.4-131		%REC	1	4/27/2012 10:40:41 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/28/2012 7:31:37 AM
Surr: BFB	106	69.7-121		%REC	1	4/28/2012 7:31:37 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	4/28/2012 7:31:37 AM
Toluene	ND	0.049		mg/Kg	1	4/28/2012 7:31:37 AM
Ethylbenzene	ND	0.049		mg/Kg	1	4/28/2012 7:31:37 AM
Xylenes, Total	0.23	0.098		mg/Kg	1	4/28/2012 7:31:37 AM
Surr: 4-Bromofluorobenzene	92.2	80-120		%REC	1	4/28/2012 7:31:37 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 ReportLab Order **1204A10**Date Reported: **5/1/2012****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Animas Environmental Services**Client Sample ID:** SC-33**Project:** Enterprise Lateral 2C-45**Collection Date:** 4/24/2012 11:28:00 AM**Lab ID:** 1204A10-003**Matrix:** SOIL**Received Date:** 4/26/2012 9:58:00 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	4/27/2012 11:02:09 AM
Surr: DNOP	107	77.4-131		%REC	1	4/27/2012 11:02:09 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/28/2012 8:00:23 AM
Surr: BFB	103	69.7-121		%REC	1	4/28/2012 8:00:23 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	4/28/2012 8:00:23 AM
Toluene	ND	0.047		mg/Kg	1	4/28/2012 8:00:23 AM
Ethylbenzene	ND	0.047		mg/Kg	1	4/28/2012 8:00:23 AM
Xylenes, Total	ND	0.094		mg/Kg	1	4/28/2012 8:00:23 AM
Surr: 4-Bromofluorobenzene	92.3	80-120		%REC	1	4/28/2012 8:00:23 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

Analytical ReportLab Order **1204A10**Date Reported: **5/1/2012****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Animas Environmental Services**Client Sample ID:** SC-34**Project:** Enterprise Lateral 2C-45**Collection Date:** 4/24/2012 12:45:00 PM**Lab ID:** 1204A10-004**Matrix:** SOIL**Received Date:** 4/26/2012 9:58:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/27/2012 11:56:20 AM
Surr: DNOP	104	77.4-131		%REC	1	4/27/2012 11:56:20 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	4.8	4.7		mg/Kg	1	4/28/2012 8:29:06 AM
Surr: BFB	113	69.7-121		%REC	1	4/28/2012 8:29:06 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	4/28/2012 8:29:06 AM
Toluene	0.11	0.047		mg/Kg	1	4/28/2012 8:29:06 AM
Ethylbenzene	ND	0.047		mg/Kg	1	4/28/2012 8:29:06 AM
Xylenes, Total	0.89	0.094		mg/Kg	1	4/28/2012 8:29:06 AM
Surr: 4-Bromofluorobenzene	94.9	80-120		%REC	1	4/28/2012 8:29:06 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.

Analytical Report

Lab Order **1204A10**

Date Reported: 5/1/2012

CLIENT: Animas Environmental Services

Client Sample ID: SC-35

Project: Enterprise Lateral 2C-45

Collection Date: 4/24/2012 2:35:00 PM

Lab ID: 1204A10-005

Matrix: SOIL

Received Date: 4/26/2012 9:58:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/27/2012 12:17:55 PM
Surr: DNOP	100	77.4-131		%REC	1	4/27/2012 12:17:55 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/28/2012 8:57:46 AM
Surr: BFB	104	69.7-121		%REC	1	4/28/2012 8:57:46 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.046		mg/Kg	1	4/28/2012 8:57:46 AM
Toluene	ND	0.046		mg/Kg	1	4/28/2012 8:57:46 AM
Ethylbenzene	ND	0.046		mg/Kg	1	4/28/2012 8:57:46 AM
Xylenes, Total	ND	0.093		mg/Kg	1	4/28/2012 8:57:46 AM
Surr: 4-Bromofluorobenzene	93.0	80-120		%REC	1	4/28/2012 8:57:46 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 **1204A10**

Date Reported: 5/1/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-36

Project: Enterprise Lateral 2C-45

Collection Date: 4/24/2012 2:55:00 PM

Lab ID: 1204A10-006

Matrix: SOIL

Received Date: 4/26/2012 9:58:00 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	4/27/2012 12:39:36 PM
Surr: DNOP	106	77.4-131		%REC	1	4/27/2012 12:39:36 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/28/2012 9:26:31 AM
Surr: BFB	101	69.7-121		%REC	1	4/28/2012 9:26:31 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	4/28/2012 9:26:31 AM
Toluene	ND	0.049		mg/Kg	1	4/28/2012 9:26:31 AM
Ethylbenzene	ND	0.049		mg/Kg	1	4/28/2012 9:26:31 AM
Xylenes, Total	ND	0.098		mg/Kg	1	4/28/2012 9:26:31 AM
Surr: 4-Bromofluorobenzene	91.2	80-120		%REC	1	4/28/2012 9:26:31 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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1204A10

Date Reported: 5/1/2012

CLIENT: Animas Environmental Services

Client Sample ID: SC-37

Project: Enterprise Lateral 2C-45

Collection Date: 4/24/2012 3:30:00 PM

Lab ID: 1204A10-007

Matrix: SOIL

Received Date: 4/26/2012 9:58:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	49	9.8		mg/Kg	1	4/27/2012 2:50:16 PM
Surr: DNOP	111	77.4-131		%REC	1	4/27/2012 2:50:16 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	38	4.9		mg/Kg	1	4/28/2012 9:55:13 AM
Surr: BFB	344	69.7-121	S	%REC	1	4/28/2012 9:55:13 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	4/28/2012 9:55:13 AM
Toluene	ND	0.049		mg/Kg	1	4/28/2012 9:55:13 AM
Ethylbenzene	ND	0.049		mg/Kg	1	4/28/2012 9:55:13 AM
Xylenes, Total	0.34	0.098		mg/Kg	1	4/28/2012 9:55:13 AM
Surr: 4-Bromofluorobenzene	99.0	80-120		%REC	1	4/28/2012 9:55:13 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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1204A10**

Date Reported: 5/1/2012

CLIENT: Animas Environmental Services

Client Sample ID: SC-38

Project: Enterprise Lateral 2C-45

Collection Date: 4/24/2012 3:50:00 PM

Lab ID: 1204A10-008

Matrix: SOIL

Received Date: 4/26/2012 9:58:00 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	4/27/2012 1:01:10 PM
Surr: DNOP	103	77.4-131		%REC	1	4/27/2012 1:01:10 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/29/2012 6:50:39 PM
Surr: BFB	104	69.7-121		%REC	1	4/29/2012 6:50:39 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	4/28/2012 10:23:50 AM
Toluene	ND	0.048		mg/Kg	1	4/28/2012 10:23:50 AM
Ethylbenzene	ND	0.048		mg/Kg	1	4/28/2012 10:23:50 AM
Xylenes, Total	ND	0.096		mg/Kg	1	4/28/2012 10:23:50 AM
Surr: 4-Bromofluorobenzene	90.4	80-120		%REC	1	4/28/2012 10:23:50 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.

Analytical Report

Lab Order 1204A10

Date Reported: 5/1/2012

CLIENT: Animas Environmental Services

Client Sample ID: SC-39

Project: Enterprise Lateral 2C-45

Collection Date: 4/24/2012 4:00:00 PM

Lab ID: 1204A10-009

Matrix: SOIL

Received Date: 4/26/2012 9:58:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/27/2012 1:22:56 PM
Surr: DNOP	103	77.4-131		%REC	1	4/27/2012 1:22:56 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/28/2012 10:52:43 AM
Surr: BFB	109	69.7-121		%REC	1	4/28/2012 10:52:43 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	4/28/2012 10:52:43 AM
Toluene	ND	0.049		mg/Kg	1	4/28/2012 10:52:43 AM
Ethylbenzene	ND	0.049		mg/Kg	1	4/28/2012 10:52:43 AM
Xylenes, Total	ND	0.098		mg/Kg	1	4/28/2012 10:52:43 AM
Surr: 4-Bromofluorobenzene	91.4	80-120		%REC	1	4/28/2012 10:52:43 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1204A10

01-May-12

Client: Animas Environmental Services

Project: Enterprise Lateral 2C-45

Sample ID: MB-1708	SampType: MBLK	TestCode: EPA Method 8015B: Diesel Range Organics								
Client ID: PBS	Batch ID: 1708	RunNo: 2386								
Prep Date: 4/26/2012	Analysis Date: 4/27/2012	SeqNo: 67173 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	10		10.00		101	77.4	131			

Sample ID: LCS-1708	SampType: LCS	TestCode: EPA Method 8015B: Diesel Range Organics								
Client ID: LCSS	Batch ID: 1708	RunNo: 2386								
Prep Date: 4/26/2012	Analysis Date: 4/27/2012	SeqNo: 67174 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	100	62.7	139			
Surr: DNOP	4.7		5.000		93.7	77.4	131			

Sample ID: 1204A10-001AMS	SampType: MS	TestCode: EPA Method 8015B: Diesel Range Organics								
Client ID: SC-31	Batch ID: 1708	RunNo: 2386								
Prep Date: 4/26/2012	Analysis Date: 4/27/2012	SeqNo: 67292 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	9.9	49.31	0	82.2	57.2	146			
Surr: DNOP	4.7		4.931		95.8	77.4	131			

Sample ID: 1204A10-001AMSD	SampType: MSD	TestCode: EPA Method 8015B: Diesel Range Organics								
Client ID: SC-31	Batch ID: 1708	RunNo: 2386								
Prep Date: 4/26/2012	Analysis Date: 4/27/2012	SeqNo: 67298 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	39	9.7	48.26	0	80.3	57.2	146	4.40	26.7	
Surr: DNOP	4.6		4.826		96.0	77.4	131	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1204A10

01-May-12

Client: Animas Environmental Services

Project: Enterprise Lateral 2C-45

Sample ID: MB-1707		SampType: MBLK		TestCode: EPA Method 8015B: Gasoline Range						
Client ID: PBS		Batch ID: 1707		RunNo: 2439						
Prep Date: 4/26/2012		Analysis Date: 4/27/2012		SeqNo: 67693		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	1,000		1,000		101	69.7	121			

Sample ID: LCS-1707		SampType: LCS		TestCode: EPA Method 8015B: Gasoline Range						
Client ID: LCSS		Batch ID: 1707		RunNo: 2439						
Prep Date: 4/26/2012		Analysis Date: 4/27/2012		SeqNo: 67694		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	117	98.5	133			
Surr: BFB	1,100		1,000		107	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#: 1204A10

01-May-12

Client: Animas Environmental Services

Project: Enterprise Lateral 2C-45

Sample ID: MB-1707	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 1707	RunNo: 2439								
Prep Date: 4/26/2012	Analysis Date: 4/27/2012	SeqNo: 67731 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	0.93		1.000		93.0	80	120			

Sample ID: LCS-1707	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 1707	RunNo: 2439								
Prep Date: 4/26/2012	Analysis Date: 4/27/2012	SeqNo: 67732 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.050	1.000	0	92.5	83.3	107			
Toluene	0.97	0.050	1.000	0	96.9	74.3	115			
Ethylbenzene	0.96	0.050	1.000	0	95.8	80.9	122			
Xylenes, Total	2.9	0.10	3.000	0	96.0	85.2	123			
Surr: 4-Bromofluorobenzene	0.96		1.000		95.9	80	120			

Sample ID: 1204A10-001AMS	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: SC-31	Batch ID: 1707	RunNo: 2439								
Prep Date: 4/26/2012	Analysis Date: 4/27/2012	SeqNo: 67754 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.049	0.9747	0	99.0	67.2	113			
Toluene	1.0	0.049	0.9747	0	103	62.1	116			
Ethylbenzene	0.99	0.049	0.9747	0	102	67.9	127			
Xylenes, Total	3.0	0.097	2.924	0	103	60.6	134			
Surr: 4-Bromofluorobenzene	0.92		0.9747		93.9	80	120			

Sample ID: 1204A10-001AMSD	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: SC-31	Batch ID: 1707	RunNo: 2439								
Prep Date: 4/26/2012	Analysis Date: 4/27/2012	SeqNo: 67755 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	0.9970	0	101	67.2	113	3.88	14.3	
Toluene	1.0	0.050	0.9970	0	104	62.1	116	3.22	15.9	
Ethylbenzene	1.0	0.050	0.9970	0	105	67.9	127	5.62	14.4	
Xylenes, Total	3.1	0.10	2.991	0	105	60.6	134	4.91	12.6	
Surr: 4-Bromofluorobenzene	0.95		0.9970		95.7	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




Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87105
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Animas Environmental

Work Order Number: 1204A10

Received by/date:  04/26/12

Logged By: Ashley Gallegos


4/26/2012 9:58:00 AM



Completed By: Ashley Gallegos

4/26/2012 10:30:16 AM



Reviewed By: 

04/26/12

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 $>0^{\circ}\text{C}$ 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. VOA vials have zero headspace? 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: _____ Date: _____
By Whom: _____ Via: eMail Phone Fax In Person
Regarding: _____
Client Instructions: _____

18. Additional remarks:

19. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.5	Good	Yes			

