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December 10, 2013

David Smith
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Houston, Texas 77210-4324

Via email with delivery confirmation receipt: drsmith@eprod.com

**RE: 3rd Quarter 2013 Groundwater Monitoring and Well Installation Report
Enterprise Field Services, LLC
Lateral 6C September 2011 Pipeline Release
NMOCD Order Number: 3RP-438-0
NE¼ SW¼, Section 26, T28N, R11W
San Juan County, New Mexico**

Dear Mr. Smith:

Animas Environmental Services, LLC (AES), on behalf of Enterprise Field Services, LLC (Enterprise), has prepared this *3rd Quarter 2013 Groundwater Monitoring Report* for the Lateral 6C September 2011 Pipeline Release in accordance with New Mexico Oil Conservation Division (NMOCD) and New Mexico Environment Department (NMED) Ground Water Quality Bureau (GWQB) regulations. This report documents the fifth consecutive quarterly monitoring and sampling event for the subject release location and the third sampling event for 2013. Also, additional groundwater investigation work was completed on September 7, 2012, in accordance with a workplan previously prepared by AES and dated August 3, 2012. The workplan was submitted to the NMOCD for review prior to implementing the proposed scope of work.

1.0 Site Information

1.1 Site Location and NMOCD Ranking

The release area is located on Federal land under jurisdiction of the Bureau of Land Management (BLM) within the NE¼ SW¼, Section 26, T28N, R11W, San Juan County, New Mexico. Latitude and longitude of the release were recorded as N36.63202 and W107.97400, respectively. A topographic site location map is included as Figure 1, and an aerial map showing the release location is included as Figure 2.

In accordance with NMOCD release protocols, action levels were established per NMOCD *Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993) prior to the initial assessment. The release was given a ranking score of 40 based on the following factors:

- **Depth to Groundwater:** Known depth to groundwater is less than 20 feet below ground surface (bgs). (20 points)
- **Wellhead Protection Area:** The release location is not within a wellhead protection area. (0 points)
- **Distance to Surface Water Body:** The release location is within the floodplain of Kutz wash, which is less than 200 feet to the northeast. Kutz Wash flows north and ultimately discharges into the San Juan River. (20 points)

1.2 *Initial Release Assessment and Investigation*

A pipeline release was discovered on September 22, 2011, by Enterprise personnel during routine operations activities. The release was immediately reported to BLM, and a Form C-141 was submitted to NMOCD on September 29, 2011. The estimated quantity of the initial release of natural gas and condensate was 7 barrels.

1.2.1 **Initial Release Assessment**

AES personnel met with Enterprise representatives at the release location on September 22, 2011. Following the repair on September 23, 2011, AES collected one soil sample from the base of the small repair excavation at 6 feet bgs. The sample was field screened for volatile organic compounds (VOCs) with a photo-ionization detector (PID) organic vapor meter (OVM). Based on the field screening reading of 3,974 parts per million (ppm) and the anticipated shallow depth of groundwater, AES and Enterprise determined that a limited investigation of the release extent would be appropriate prior to implementing further contaminant mitigation measures.

1.2.2 **Release Assessment - October 2011**

On October 11, 2011, AES completed four test hole excavations around the original release location and at distances of up to 100 feet from the release point. AES recorded the encountered soil materials, collected field screening samples and soil samples for laboratory analysis from each test hole, and collected groundwater samples from two of the test holes. Soil concentrations for total benzene, toluene, ethylbenzene, and xylene (BTEX) and total petroleum hydrocarbons (TPH) for gasoline range organics (GRO) in sample TP-1 at 10 feet exceeded the applicable NMOCD action levels with 169 mg/kg total BTEX and 1,429 mg/kg TPH. Benzene, total BTEX, TPH-GRO, and TPH for diesel range organics (DRO) concentrations in sample TP-2 at 15 feet also exceeded the applicable NMOCD action levels with 45 mg/kg benzene, 513 mg/kg total BTEX, and 5,170 mg/kg TPH (GRO/DRO). Although some elevated OVM field screening values were recorded,

BTEX and TPH concentrations in the remaining soil samples were either below laboratory detection limits or below applicable NMOCD action levels.

Groundwater samples were collected for laboratory analysis from TP-2 and TP-4. During sample collection, a petroleum sheen was observed in TP-2. Dissolved phase benzene, toluene, and xylene concentrations were reported above the New Mexico Water Quality Control Commission (WQCC) standards in TP-2 with 9,800 µg/L benzene, 15,000 µg/L toluene, and 6,700 µg/L xylene. Detailed laboratory results were summarized in the AES letter report entitled *Soil and Groundwater Sampling Results* and dated October 28, 2011.

Following receipt of laboratory analytical results on October 24, 2011, Enterprise notified NMOCD of the confirmed groundwater impact by submitting a Form C-141. Based on field screening and laboratory analytical results, AES recommended that Enterprise conduct further delineation of the soil and groundwater contamination in order to determine the most effective mitigation of the release.

1.2.3 Site Investigation - November 2011

On November 30, 2011, AES completed an additional site investigation, which included the installation of eight soil borings and the collection of soil and groundwater samples. Soil samples showed that contaminant concentrations exceeded NMOCD action levels in borings SB-2, SB-7, and SB-8. The highest benzene and total BTEX concentrations were reported in SB-2, with 31 mg/kg benzene and 580 mg/kg total BTEX. The highest TPH concentration was also reported in SB-2 with 7,500 mg/kg.

Dissolved phase analytical results indicated groundwater was impacted above the WQCC standard in SB-2W (benzene, toluene, and xylene), SB-3W (benzene), and SB-7W (benzene and toluene). The highest concentrations for benzene, toluene, and xylenes were reported in SB-2W with 2,800 µg/L benzene, 5,700 µg/L toluene, and 4,000 µg/L xylenes.

1.2.4 Groundwater Investigation – September 2012

On August 20 through September 7, 2012, AES completed a groundwater investigation in order to further delineate the extent of the dissolved phase hydrocarbon contaminants associated with the Lateral 6C pipeline release. During the site investigation, AES personnel installed nine soil borings which were advanced to a total depth of 25 feet bgs and completed as monitor wells MW-1 through MW-9.

The local site lithology consists of alluvium and fluvial material from the adjacent Kutz Wash overlaying sandstone bedrock. Soil observed during the investigation was brown to tan, fine to medium grained, silty to clayey sand, with some gravel at depths greater than 20 feet bgs. Moisture level increased with depth from dry to moist in the upper 10 feet to moist to wet down to contact with bedrock. Bedrock material was grey, fine grained, firm to moderately hard, wet sandstone.

During the investigation, soil laboratory analytical results showed that petroleum hydrocarbon concentrations were not above NMOCD action levels in any of the soil borings. Laboratory analytical results showed groundwater contaminant concentrations above the WQCC standard of 10 µg/L for benzene in MW-1 (2,200 µg/L), MW-2 (270 µg/L), MW-4 (18 µg/L), and MW-8 (41 µg/L). Additionally, dissolved phase toluene above the WQCC standard of 750 µg/L was reported in MW-2 with 1,100 µg/L, and xylene above the WQCC standard of 620 µg/L was reported in MW-1 (650 µg/L), MW-2 (1,800 µg/L), and MW-6 (2,200 µg/L).

1.2.5 Groundwater Monitoring and Sampling – December 2012

Site monitor wells were monitored and sampled by AES on December 20, 2012. Laboratory results confirmed dissolved phase benzene concentrations above the WQCC standard of 10 µg/L in two wells, including MW-1 (1,100 µg/L) and MW-2 (26 µg/L). Also, dissolved phase xylene concentrations were above the WQCC standard of 620 µg/L in MW-6 with 1,200 µg/L. Details of the groundwater sampling event were presented in the *Quarterly Groundwater Sampling Report* dated February 13, 2013.

1.2.6 Groundwater Monitoring and Sampling – March 2013

Site monitor wells were monitored and sampled by AES on March 20, 2013. Note that 0.42 feet of non-aqueous phase liquid (NAPL) or “free product” was observed for the first time in MW-1 during the March 2013 sampling event. Laboratory results confirmed dissolved phase benzene concentrations above the WQCC standard of 10 µg/L in two wells, including MW-4 (290 µg/L) and MW-8 (41 µg/L). Dissolved phase xylene concentrations were above the WQCC standard of 620 µg/L in MW-6 with 800 µg/L. Details of the groundwater sampling event were presented in the *Quarterly Groundwater Sampling Report* dated May 13, 2013.

1.2.7 Groundwater Monitoring and Sampling – June 2013

AES completed site monitoring and sampling on June 19, 2013. NAPL was observed for the second consecutive quarter in MW-1 (0.26 feet) and for the first time in MW-2 (0.44 feet). Laboratory results confirmed dissolved phase benzene concentrations above the WQCC standard of 10 µg/L in three wells, including MW-3 (780 µg/L), MW-4 (600 µg/L), and MW-8 (21 µg/L). Dissolved phase xylene concentrations were above the WQCC standard of 620 µg/L in MW-6 with 1,100 µg/L. Details of the groundwater sampling event were presented in the *Quarterly Groundwater Sampling Report* dated August 26, 2013.

2.0 Groundwater Monitoring and Sampling – September 2013

On September 17 and 18, 2013, groundwater monitoring and sampling were conducted by AES in MW-1 through MW-9. Work was completed in accordance with the workplan prepared by AES and dated August 3, 2012, and also in accordance with U.S.

Environmental Protection Agency (USEPA) Environmental Response Team's Standard Operating Procedures (SOPs) and applicable American Society of Testing and Materials (ASTM) standards.

2.1 Groundwater Measurements and Water Quality

Prior to sample collection, depth to groundwater in each well was measured with a Keck Water Level Indicator, and water quality data was measured with a YSI Water Quality Meter. Water quality measurements were recorded and included pH, temperature, conductivity, dissolved oxygen (DO), and oxidation reduction potential (ORP). Depth to groundwater measurements and water quality data were recorded onto Water Sample Collection forms. During this sampling event, NAPL was observed for the third consecutive quarter in MW-1 (0.48 feet) and for the second consecutive quarter in MW-2 (0.14 feet). Groundwater elevations decreased by an average of 0.34 feet across the site, and depths to groundwater were observed to range from 15.08 feet below top of casing (TOC) in MW-8 to 19.22 feet below TOC in MW-5. The groundwater gradient was calculated to be approximately 0.008 foot/foot to the northwest. Groundwater gradient contours are included on Figure 3.

Following depth to water measurement, each well was purged with a peristaltic pump until recorded temperature, pH, conductivity, and DO measurements were stabilized. All data was recorded onto Water Sample Collection Forms. Groundwater temperature ranged from 17.06 °C in MW-3 to 20.30°C in MW-7, and conductivity ranged from 4.530 mS in MW-7 to 9.841 mS in MW-3. DO concentrations were between 0.30 mg/L in MW-9 and 3.72 MW-5, and pH ranged from 6.99 in MW-3 to 7.44 in MW-7. Depth to groundwater measurements and water quality data are summarized in Table 1. Water Sample Collection forms are presented in Appendix A.

2.2 Groundwater Laboratory Analyses

Groundwater samples were collected using low flow purging techniques with a peristaltic pump from a total of seven monitor wells and transferred into appropriate sample containers, labeled accordingly, and documented on Water Sample Collection Forms. Samples were shipped in insulated coolers containing ice at less than 6°C to Hall Environmental Analytical Laboratory (Hall) in Albuquerque, New Mexico. All groundwater analytical samples were analyzed for BTEX per USEPA Method 8260B and for total dissolved solids (TDS) per SM2540C Modified.

2.2.1 Groundwater Analytical Results

Groundwater laboratory analytical results showed that dissolved phase benzene concentrations were above the WQCC standard of 10 µg /L in MW-3 (150 µg/L) and MW-4 (830 µg/L). Dissolved phase xylene concentrations were above the WQCC standard of 620 µg /L in MW-6 with 1,200 µg/L. Dissolved phase toluene and ethylbenzene concentrations were below the WQCC standard of 750 µg/L in all wells sampled. Total

dissolved solids were analyzed and ranged from 3,550 mg/L in MW-9 up to 4,670 mg/L in MW-3. Tabulated groundwater analytical results are presented in Table 2 and on Figure 4, and dissolved phase benzene and xylene contours are presented on Figures 5 and 6, respectively. Groundwater laboratory analytical reports are presented in Appendix B.

3.0 Additional Monitor Well Installation

On October 16, 2013, AES installed four additional monitor wells (MW-10 through MW-13) in order to further delineate the lateral extent of the groundwater contaminant impact. Monitor well installation procedures were based upon protocols outlined in AES SOPs. Under current New Mexico Office of the State Engineer (NMOSE) regulations, monitor wells installed in the manner described herein do not require well permits. Soil borings were advanced with a DT 6620 track-mounted direct push rig, manufactured by Geoprobe®, and equipped with a 3.25-inch outer diameter (OD) core barrel. Direct push drilling was provided by Earth Worx, Belen, New Mexico. The locations of the monitor wells are presented on Figure 7.

3.1 *Pre-Field Coordination and Job Safety Analysis*

Prior to field work, the drilling contractor utilized the New Mexico One-Call system to identify and mark all underground utilities at the site. AES prepared and implemented a comprehensive site-specific Job Safety Analysis (JSA) addressing the activities associated with monitor installation. All onsite personnel were required to read and sign the JSA to acknowledge their understanding of the information contained within the JSA. The JSA was implemented and enforced on site by the Site Safety and Health Officer.

3.2 *Groundwater Monitor Well Installation*

3.2.1 **Groundwater Monitor Well Installation**

On October 16, 2013, AES installed four soil borings which were completed as 1-inch diameter monitor wells (MW-10 through MW-13). Groundwater monitor wells MW-10 through MW-12 were installed to a total depth of about 19 feet, and MW-13 was installed to a total depth of about 23 feet bgs.

3.2.2 **Soil Sample Collection**

Soil samples from MW-10 through MW-13 were collected from continuously driven core-barrel samplers with a 2.25-inch diameter during advancement of the soil borings. At 4 foot intervals, a soil sample was collected from the core barrel sampler and transferred to appropriately labeled sample containers. The samples were split for field screening of VOCs with a PID-OVM. Based on field screening results, selected soil samples were submitted for laboratory analysis.

For each soil boring, a Soil Boring Log was completed and recorded sample identification, depth collected, and method of collection, as well as observations of soil moisture, color, grain size, contaminant presence, and overall stratigraphy. Soil Boring Logs are presented in Appendix C.

3.2.3 Soil Field Screening and Laboratory Results

Samples were field screened for VOC vapors utilizing a PID-OVM, which was calibrated to 100 ppm with isobutylene gas, and field screening followed AES' SOP for heated headspace analysis of VOCs. Field screening results showed VOC concentrations of 0.0 ppm in MW-11 through MW-13 and VOC concentrations in MW-10 ranging from 0.2 ppm at 0 feet to 4 feet up to 786 ppm at 12 to 16 feet. Soil field screening results are presented in Table 3 and on Figure 7.

Laboratory analytical results reported benzene, total BTEX, and TPH concentrations below the laboratory detection limits, except for in MW-10 at 13.5 to 14 feet with 1.7 mg/kg benzene, 52 mg/kg total BTEX, and 541 mg/kg TPH (as GRO/DRO). Results are presented in Table 3 and on Figure 7. The laboratory analytical report is included in Appendix D.

3.2.4 Soil Lithology

The local site lithology consists of stream alluvium and floodplain material which constitutes the wash of Kutz Canyon. Materials observed generally consisted of brown, fine- to medium-grained poorly graded sand, silty sand, and clayey sand. Moderate to heavy staining and odor was observed in MW-10 from a depth of approximately 12 feet to 14.5 feet bgs. No odor or staining or odor was observed in MW-11 through MW-13. Groundwater was encountered at a depth of approximately 14 feet bgs in MW-10 through MW-12 and at 18 feet bgs in MW-13.

3.2.5 Groundwater Monitor Well Construction

Monitoring well construction consisted of 1.4-inch OD (0.75-inch ID) pre-packed screen (0.010-inch slot) and 1.0-inch blank riser casing. The screened interval extended 10 feet across the water table. The screen is factory packed with 20/40 Colorado silica sand. A bentonite seal was placed above the sand pack, and concrete grout with approximately 5 percent bentonite poured from the top of the bentonite plug up to within 0.5 feet of ground surface. An above grade locking steel protective casing, enclosed with a shroud of concrete, was installed on the well to prevent unauthorized access and damage. Monitor well schematics are presented on the Soil Boring Logs in Appendix C.

3.2.6 Groundwater Monitor Well Development

On November 6, 2013, MW-10 through MW-13 were developed in order to remove fine grained sediments and to increase hydraulic conductivity through the well screen. Each well was developed by a combination of surging and pumping techniques in accordance with AES SOPs. Groundwater purged from the wells was contained in labeled and sealed 55-gallon drums and transported to Envirotech Landfarm for proper disposal.

Groundwater monitor well development forms are presented in Appendix E, and Bills of Lading (BOLs) for disposal of the monitor well development water are included in Appendix F.

4.0 Conclusion and Recommendations

A total of nine monitor wells (MW-1 through MW-9) were monitored and sampled at the Lateral 6C September 2011 pipeline release location by AES on September 17 and 18, 2013. Note that during this sampling event, NAPL was observed for the third consecutive quarter in MW-1 (0.48 feet) and for the second consecutive quarter in MW-2 (0.14 feet).

Groundwater continues to be impacted above the WQCC standard for benzene and xylenes. Laboratory results confirmed dissolved phase benzene concentrations above the WQCC standard of 10 µg/L in two wells, including MW-3 (150 µg/L) and MW-4 (830 µg/L). Also, dissolved phase xylene concentrations were above the WQCC standard of 620 µg/L in MW-6 with 1,200 µg/L. Dissolved phase toluene and ethylbenzene concentrations were below WQCC standards in all sampled monitor wells. Low benzene concentrations and high xylene concentrations in MW-6 may be indicative of weathering or partially degraded petroleum hydrocarbons. Total dissolved solids concentrations are consistent with concentrations observed at other locations along the Kutz Wash.

Four additional monitor wells (MW-10 through MW-13) were installed on October 16, 2013, in order to further delineate the lateral extent of the groundwater contaminant impact. Soil laboratory analytical results reported benzene, total BTEX, and TPH concentrations below the laboratory detection limits in MW-11 through MW-13. Soil benzene concentration in MW-10 at 13.5 to 14 feet were below the NMOCD action levels of 10 mg/kg; however, total BTEX and TPH concentrations exceeded the NMOCD action levels of 50 mg/kg total BTEX and 100 mg/kg TPH (as GRO/DRO) with 52 mg/kg total BTEX and 541 mg/kg TPH. The monitor wells were developed on November 6, 2013. Groundwater sampling of MW-10 through MW-13 will be conducted during the next quarterly sampling event, tentatively scheduled for early December 2013.

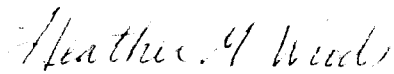
AES recommends the following:

- Continued monitoring and sampling of site monitor wells on a quarterly basis;
- Conduct a “free product” bail down or recovery test within MW-1 and MW-2 to better estimate free product thickness in the formation and recovery rates; and
- Conduct an aquifer slug test within MW-2, MW-8, and MW-10 to better determine groundwater characteristics. The aquifer testing will be conducted in accordance with American Society for Testing and Materials Standard Test Method for Instantaneous Change in Head (Slug) Tests for Determining Hydraulic Properties of Aquifers, U.S. Environmental Protection Agency Environmental

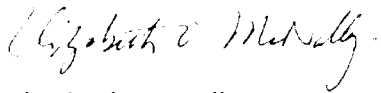
Response Team Standard Operating Procedure (SOP) #2045 for conducting slug tests, and U.S. Geological Survey Open File Report 02-197 Documentation of Spreadsheets for Analysis of Aquifer Test and Slug Test Data. AES has tentatively scheduled aquifer testing for the week of November 25, 2013.

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

Sincerely,



Heather M. Woods, P.G.
Project Manager



Elizabeth McNally, P.E.

Attachments:

Tables

- Table 1. Summary of Groundwater Measurements and Water Quality Data
- Table 2. Summary of Groundwater Laboratory Analytical Results
- Table 3. Summary of Soil Field Screening and Laboratory Analytical Results

Figures

- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map
- Figure 3. Groundwater Elevation Contours, September 2013
- Figure 4. Groundwater Contaminant Concentrations, September 2013
- Figure 5. Dissolved Benzene Concentration Contours, September 2013
- Figure 6. Dissolved Xylene Concentration Contours, September 2013
- Figure 7. Additional Monitor Well Locations and Results, October 2013

Appendices

- Appendix A. Water Sample Collection Forms
- Appendix B. Groundwater Analytical Reports (Hall 1309895)
- Appendix C. Soil Boring Logs
- Appendix D. Soil Analytical Reports (Hall 1310941)
- Appendix E. Monitor Well Development Forms
- Appendix F. Envirotech BOLs (44709 and 45088)

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TABLE 1. SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
 Enterprise Field Services, LLC Lateral 6C September 2011 Pipeline Release
 San Juan County, New Mexico

Well ID	Date	Surveyed TOC (ft)	Depth to NAPL (ft below TOC)	Depth to Water (ft below TOC)	NAPL Thickness (ft)	GW Elev. (ft amsl)	Corrected GW Elev. (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. Temp. (°C)
MW-1	07-Sep-12	5579.73		15.78		5563.95		7.02	5.616	1.72	17.31
MW-1	20-Dec-12	5579.73		15.69		5564.04		7.38	4.567	1.41	16.71
MW-1	20-Mar-13	5579.73	15.31	15.73	0.42	5564.00	5564.30	NA	NA	NA	NA
MW-1	19-Jun-13	5579.73	15.49	15.75	0.26	5563.98	5564.17	NA	NA	NA	NA
MW-1	17-Sep-13	5579.73	15.79	16.27	0.48	5563.46	5563.81	NA	NA	NA	NA
MW-2	07-Sep-12	5579.39		16.29		5563.10		7.31	4.234	1.03	16.67
MW-2	20-Dec-12	5579.39		16.22		5563.17		7.61	3.511	1.45	15.42
MW-2	20-Mar-13	5579.39		15.97		5563.42		7.50	6.788	1.06	14.88
MW-2	19-Jun-13	5579.39	15.96	16.40	0.44	5562.99	5563.31	NA	NA	NA	NA
MW-2	17-Sep-13	5579.39	16.40	16.54	0.14	5562.85	5562.95	NA	NA	NA	NA
MW-3	07-Sep-12	5579.52		15.98		5563.54		7.33	5.706	2.24	15.29
MW-3	20-Dec-12	5579.52		15.79		5563.73		7.13	4.496	2.30	13.84
MW-3	20-Mar-13	5579.52		15.50		5564.02		7.33	8.893	2.62	13.63
MW-3	19-Jun-13	5579.52		15.66		5563.86		6.08	8.451	2.65	15.30
MW-3	18-Sep-13	5579.52		15.96		5563.56		6.99	9.841	0.41	17.06
MW-4	07-Sep-12	5580.36		15.59		5564.77		7.30	5.564	1.46	15.77
MW-4	20-Dec-12	5580.36		15.51		5564.85		7.06	4.106	1.51	14.94
MW-4	20-Mar-13	5580.36		15.25		5565.11		7.23	7.897	1.17	14.00
MW-4	19-Jun-13	5580.36		15.41		5564.95		6.32	7.468	3.21	15.90
MW-4	18-Sep-13	5580.36		15.74		5564.62		7.11	8.425	0.49	18.42
MW-5	07-Sep-12	5583.53		19.35		5564.18		7.34	4.137	1.53	14.89
MW-5	20-Dec-12	5583.53		19.28		5564.25		7.00	3.438	2.65	13.74
MW-5	20-Mar-13	5583.53		19.10		5564.43		7.28	6.957	2.29	13.86
MW-5	19-Jun-13	5583.53		19.21		5564.32		7.22	6.377	1.15	15.68
MW-5	17-Sep-13	5583.53		19.55		5563.98		7.23	7.545	3.72	19.23

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 San Juan County, New Mexico

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MW-6	07-Sep-12	5582.22		18.55		5563.67		7.38	4.833	1.24	15.43
MW-6	20-Dec-12	5582.22		18.49		5563.73		7.46	3.932	1.09	14.08
MW-6	20-Mar-13	5582.22		18.27		5563.95		7.38	7.571	0.79	14.36
MW-6	19-Jun-13	5582.22		18.38		5563.84		5.46	6.836	5.35	16.86
MW-6	18-Sep-13	5582.22		18.74		5563.48		7.19	8.042	0.59	17.31
MW-7	07-Sep-12	5582.24		19.03		5563.21		7.59	4.542	1.38	15.24
MW-7	20-Dec-12	5582.24		18.97		5563.27		7.53	3.660	1.16	13.86
MW-7	20-Mar-13	5582.24		18.79		5563.45		7.45	7.512	1.45	14.40
MW-7	19-Jun-13	5582.24		18.87		5563.37		5.67	6.747	3.72	16.68
MW-7	17-Sep-13	5582.24		19.22		5563.02		7.44	4.530	2.90	20.30
MW-8	07-Sep-12	5577.81		14.96		5562.85		7.57	4.068	1.30	16.16
MW-8	20-Dec-12	5577.81		14.87		5562.94		7.56	3.339	0.97	15.25
MW-8	20-Mar-13	5577.81		14.63		5563.18		7.41	7.084	2.06	14.86
MW-8	19-Jun-13	5577.81		14.74		5563.07		5.68	6.235	4.21	16.43
MW-8	18-Sep-13	5577.81		15.08		5562.73		7.39	7.419	0.83	17.93
MW-9	07-Sep-12	5582.48		17.55		5564.93		7.45	4.583	1.48	15.61
MW-9	20-Dec-12	5582.48		17.47		5565.01		7.14	3.369	2.29	13.06
MW-9	20-Mar-13	5582.48		17.28		5565.20		7.30	6.700	2.56	13.70
MW-9	19-Jun-13	5582.48		17.42		5565.06		7.26	6.265	1.82	14.14
MW-9	17-Sep-13	5582.48		17.74		5564.74		7.12	7.500	0.30	16.20

Notes: NA - not analyzed

TABLE 2. SUMMARY OF GROUNDWATER LABORATORY ANALYTICALS RESULTS
 Enterprise Field Services, LLC Lateral 6C September 2011 Pipeline Release
 San Juan County, New Mexico

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Xylenes	Total Dissolved Solids
		µg/L	µg/L	µg/L	µg/L	mg/L
Sample Method		EPA Method 8260				SM2540C
WQCC STANDARD		10	750	750	620	--
MW-1	07-Sep-12	2,200	350	68	650	NA
MW-1	20-Dec-12	1,100	250	37	180	NA
MW-1	20-Mar-13	Free Product Present (0.42 feet)				NA
MW-1	19-Jun-13	Free Product Present (0.26 feet)				NA
MW-1	17-Sep-13	Free Product Present (0.48 feet)				NA
MW-2	07-Sep-12	270	1,100	66	1,800	NA
MW-2	20-Dec-12	26	49	5.1	250	NA
MW-2	20-Mar-13	<5.0	<5.0	<5.0	67	NA
MW-2	19-Jun-13	Free Product Present (0.44 feet)				NA
MW-2	17-Sep-13	Free Product Present (0.14 feet)				NA
MW-3	07-Sep-12	<2.0	<2.0	<2.0	<4.0	NA
MW-3	20-Dec-12	<2.0	<2.0	<2.0	<4.0	NA
MW-3	20-Mar-13	<2.0	<2.0	<2.0	<4.0	NA
MW-3	19-Jun-13	780	130	2.5	15	NA
MW-3	18-Sep-13	150	28	<5.0	15	4,670
MW-4	07-Sep-12	18	5.1	<2.0	<4.0	NA
MW-4	20-Dec-12	<2.0	<2.0	<2.0	<4.0	NA
MW-4	20-Mar-13	290	110	<2.0	15	NA
MW-4	19-Jun-13	600	45	<10	<20	NA
MW-4	18-Sep-13	830	39	<20	<30	4,030
MW-5	07-Sep-12	<2.0	<2.0	<2.0	<4.0	NA
MW-5	20-Dec-12	<2.0	<2.0	<2.0	<4.0	NA
MW-5	20-Mar-13	<2.0	<2.0	<2.0	<4.0	NA
MW-5	19-Jun-13	<1.0	<1.0	<1.0	<2.0	NA
MW-5	17-Sep-13	<1.0	<1.0	<1.0	<1.5	3,630
MW-6	07-Sep-12	<5.0	<5.0	260	2,200	NA
MW-6	20-Dec-12	<5.0	<5.0	180	1,200	NA
MW-6	20-Mar-13	<5.0	<5.0	120	800	NA
MW-6	19-Jun-13	9.6	6.2	150	1,100	NA
MW-6	18-Sep-13	<5.0	<5.0	180	1,200	3,750

TABLE 2. SUMMARY OF GROUNDWATER LABORATORY ANALYTICALS RESULTS
Enterprise Field Services, LLC Lateral 6C September 2011 Pipeline Release
San Juan County, New Mexico

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Xylenes	Total Dissolved Solids
		µg/L	µg/L	µg/L	µg/L	mg/L
Sample Method		EPA Method 8260				SM2540C
WQCC STANDARD		10	750	750	620	--
MW-7	07-Sep-12	<2.0	<2.0	<2.0	<4.0	NA
MW-7	20-Dec-12	<2.0	<2.0	<2.0	2.4	NA
MW-7	20-Mar-13	<2.0	<2.0	<2.0	<4.0	NA
MW-7	19-Jun-13	<1.0	<1.0	<1.0	<2.0	NA
MW-7	17-Sep-13	<1.0	<1.0	<1.0	<1.5	4,040
MW-8	07-Sep-12	41	40	3.8	320	NA
MW-8	20-Dec-12	<2.0	<2.0	<2.0	20	NA
MW-8	20-Mar-13	41	36	<2.0	89	NA
MW-8	19-Jun-13	21	12	<1.0	6.8	NA
MW-8	18-Sep-13	<1.0	<1.0	3.4	27	3,590
MW-9	07-Sep-12	<2.0	2.4	<2.0	<4.0	NA
MW-9	20-Dec-12	<2.0	<2.0	<2.0	<4.0	NA
MW-9	20-Mar-13	<2.0	<2.0	<2.0	<4.0	NA
MW-9	19-Jun-13	<1.0	<1.0	<1.0	<2.0	NA
MW-9	17-Sep-13	<1.0	<1.0	<1.0	<1.5	3,550

Notes: < Analyte not detected above listed method limit
µg/L Micrograms per liter (ppb)
NA Not analyzed

TABLE 3. SUMMARY OF SOIL FIELD SCREENING AND LABORATORY ANALYTICAL RESULTS
 Enterprise Field Services, LLC Lateral 6C September 2011 Pipeline Release
 San Juan County, New Mexico

Well ID	Date Sampled	Depth (ft)	VOCs OVM	Benzene	Toluene	Ethyl-benzene	Xylenes	Total BTEX	TPH - GRO	TPH - DRO	TPH as GRO/DRO	
			ppm	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Sample Method			--	EPA Method 8260					EPA Method 8015D			
NMOCD Action Level			100	10	NE	NE	NE	50	NE	NE	100	
MW-10	16-Oct-13	0 to 4	0.2	NA	NA	NA	NA	NA	NA	NA	NA	
		4 to 8	1.7	NA	NA	NA	NA	NA	NA	NA	NA	
		8 to 12	23.8	NA	NA	NA	NA	NA	NA	NA	NA	
		12 to 16	786	NA	NA	NA	NA	NA	NA	NA	NA	
		13.5 to 14	NA	1.7	20	2.5	28	52	530	11	541	
MW-11	16-Oct-13	0 to 4	0.0	NA	NA	NA	NA	NA	NA	NA	NA	
		4 to 8	0.0	NA	NA	NA	NA	NA	NA	NA	NA	
		8 to 12	0.0	NA	NA	NA	NA	NA	NA	NA	NA	
		12 to 16	0.0	NA	NA	NA	NA	NA	NA	NA	NA	
		13.5 to 14	NA	<0.047	<0.047	<0.047	<0.095	<0.236	<4.7	<10	<15	
MW-12	16-Oct-13	0 to 4	0.0	NA	NA	NA	NA	NA	NA	NA	NA	
		4 to 8	0.0	NA	NA	NA	NA	NA	NA	NA	NA	
		8 to 12	0.0	NA	NA	NA	NA	NA	NA	NA	NA	
		12 to 16	0.0	NA	NA	NA	NA	NA	NA	NA	NA	
		13.5 to 14	NA	<0.046	<0.046	<0.046	<0.093	<0.231	<4.6	<10	<15	
MW-13	16-Oct-13	0 to 4	0.0	NA	NA	NA	NA	NA	NA	NA	NA	
		4 to 8	0.0	NA	NA	NA	NA	NA	NA	NA	NA	
		8 to 12	0.0	NA	NA	NA	NA	NA	NA	NA	NA	
		12 to 16	0.0	NA	NA	NA	NA	NA	NA	NA	NA	
		13.5 to 14	NA	<0.048	<0.048	<0.048	<0.097	<0.241	<4.8	<10	<15	

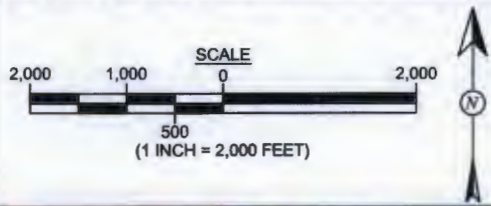
Notes: NA Not analyzed
 < Analyte not detected above listed method limit



LATERAL 6C SEPTEMBER 2011
PIPELINE RELEASE LOCATION

BLOOMFIELD QUADRANGLE
NEW MEXICO - SAN JUAN COUNTY
1985

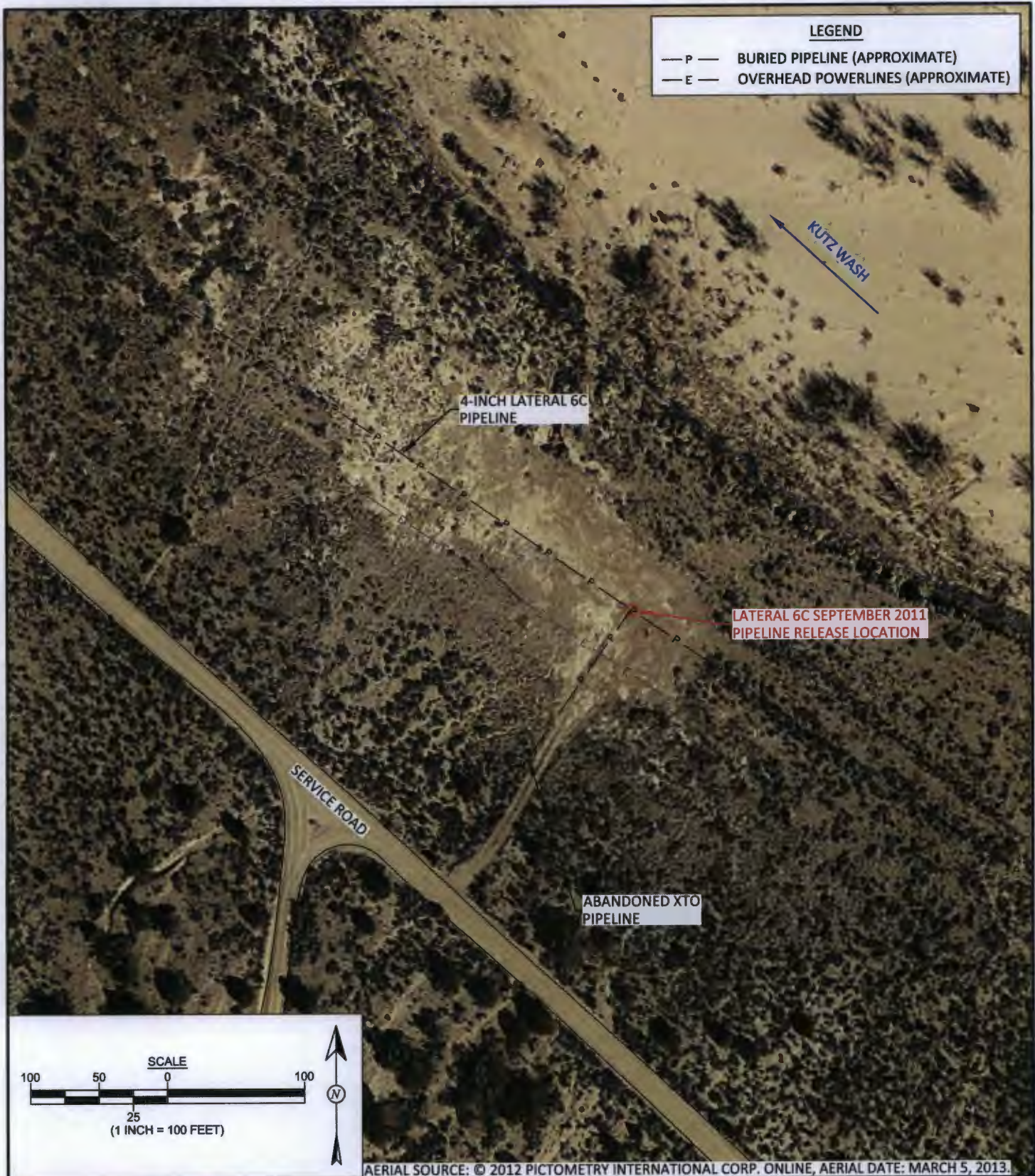
EAST FORK KUTZ CANYON QUADRANGLE
NEW MEXICO - SAN JUAN COUNTY
1985



Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: September 18, 2012
REVISIONS BY: C. Lameman	DATE REVISED: October 6, 2013
CHECKED BY: H. Woods	DATE CHECKED: October 6, 2013
APPROVED BY: E. McNally	DATE APPROVED: October 6, 2013

FIGURE 1
TOPOGRAPHIC SITE LOCATION MAP
ENTERPRISE FIELD SERVICES, LLC
LATERAL 6C SEPTEMBER 2011 PIPELINE RELEASE
SAN JUAN COUNTY, NEW MEXICO
NE¼ SW¼, SECTION 26, T28N, R11W
N36.63202, W107.97400



LEGEND
 — P — BURIED PIPELINE (APPROXIMATE)
 — E — OVERHEAD POWERLINES (APPROXIMATE)

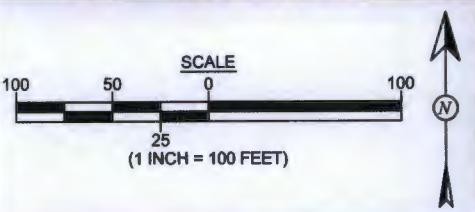
4-INCH LATERAL 6C PIPELINE

LATERAL 6C SEPTEMBER 2011 PIPELINE RELEASE LOCATION

ABANDONED XTO PIPELINE

SERVICE ROAD

KUTZ WASH



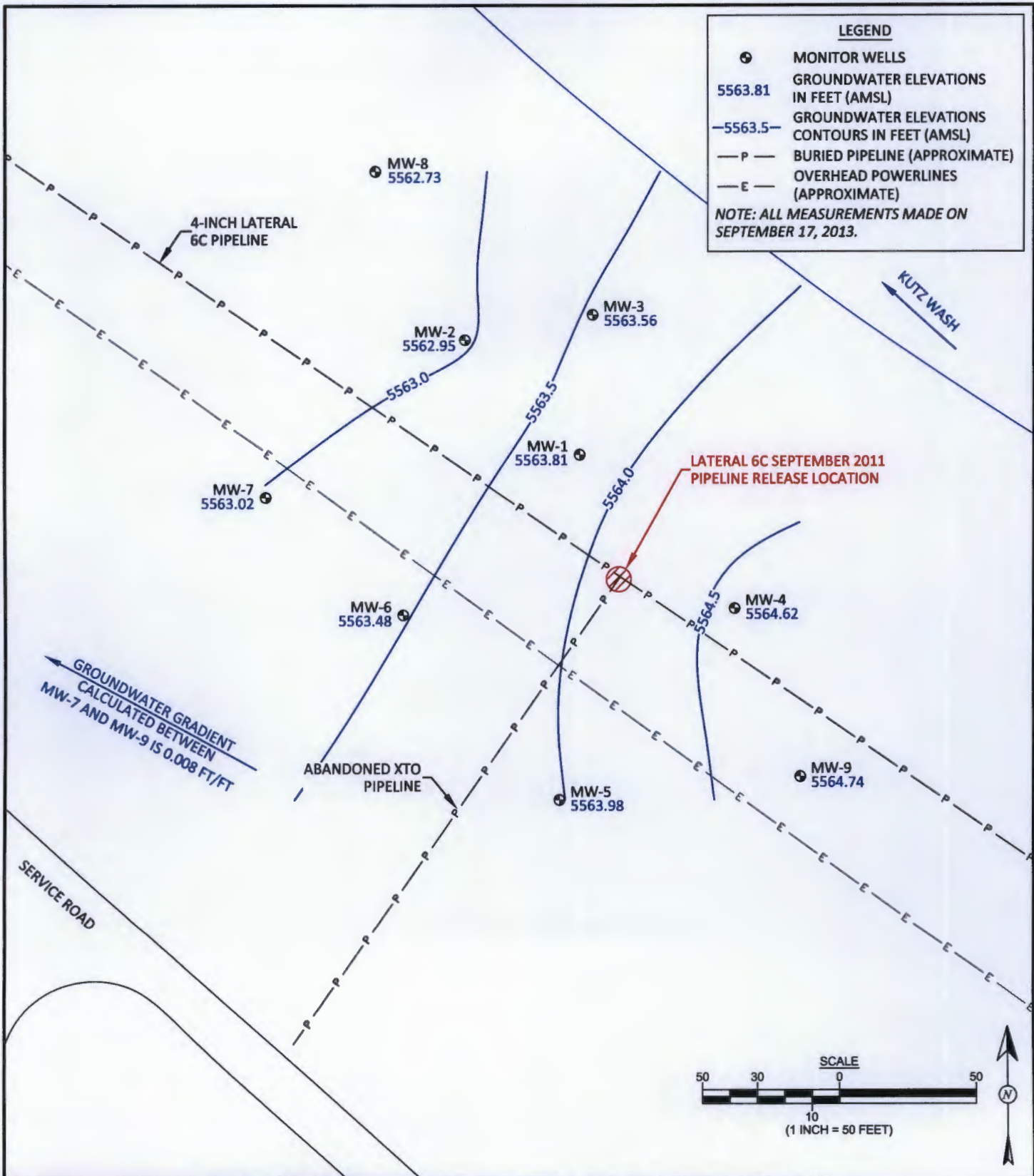
AERIAL SOURCE: © 2012 PICTOMETRY INTERNATIONAL CORP. ONLINE, AERIAL DATE: MARCH 5, 2013.



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REVISIONS BY: C. Lameman	DATE REVISED: October 6, 2013
CHECKED BY: H. Woods	DATE CHECKED: October 6, 2013
APPROVED BY: E. McNally	DATE APPROVED: October 6, 2013

FIGURE 2

AERIAL SITE MAP
 ENTERPRISE FIELD SERVICES, LLC
 LATERAL 6C SEPTEMBER 2011 PIPELINE RELEASE
 NE¼ SW¼, SECTION 26, T28N, R11W
 SAN JUAN COUNTY, NEW MEXICO
 N36.63202, W107.97400



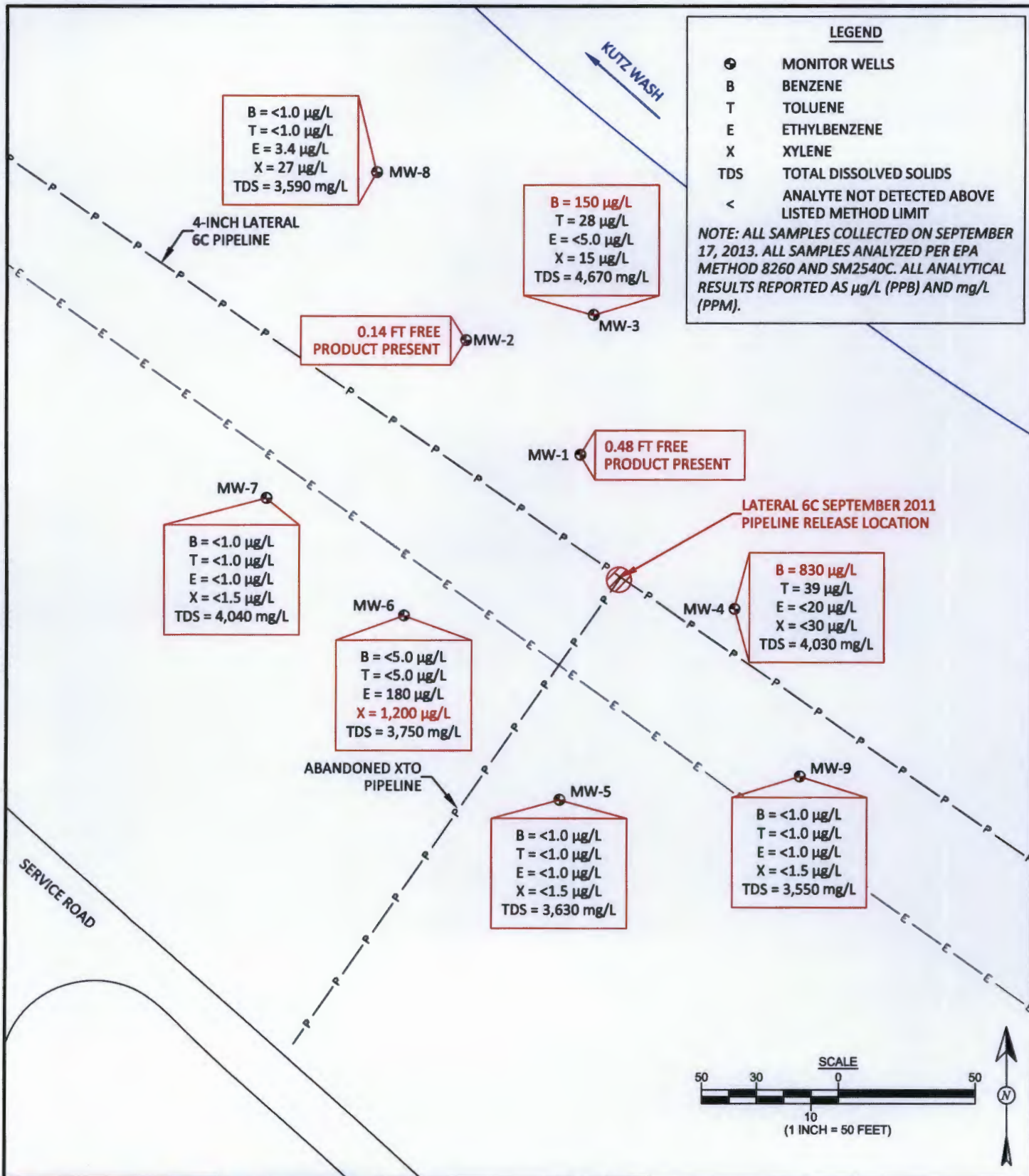
Animas Environmental Services, LLC

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REVISIONS BY: C. Lameman	DATE REVISED: October 6, 2013
CHECKED BY: H. Woods	DATE CHECKED: October 6, 2013
APPROVED BY: E. McNally	DATE APPROVED: October 6, 2013

FIGURE 3

**GROUNDWATER ELEVATION CONTOURS
SEPTEMBER 2013**

ENTERPRISE FIELD SERVICES, LLC
LATERAL 6C SEPTEMBER 2011 PIPELINE RELEASE
NE¼ SW¼, SECTION 26, T28N, R11W
SAN JUAN COUNTY, NEW MEXICO
N36.63202, W107.97400



DRAWN BY: C. Lameman	DATE DRAWN: September 18, 2012
REVISIONS BY: C. Lameman	DATE REVISED: October 6, 2013
CHECKED BY: H. Woods	DATE CHECKED: October 6, 2013
APPROVED BY: E. McNally	DATE APPROVED: October 6, 2013

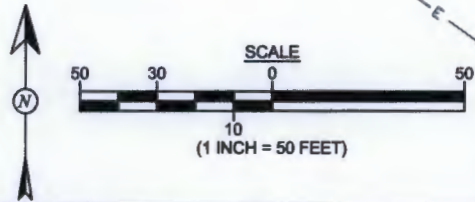
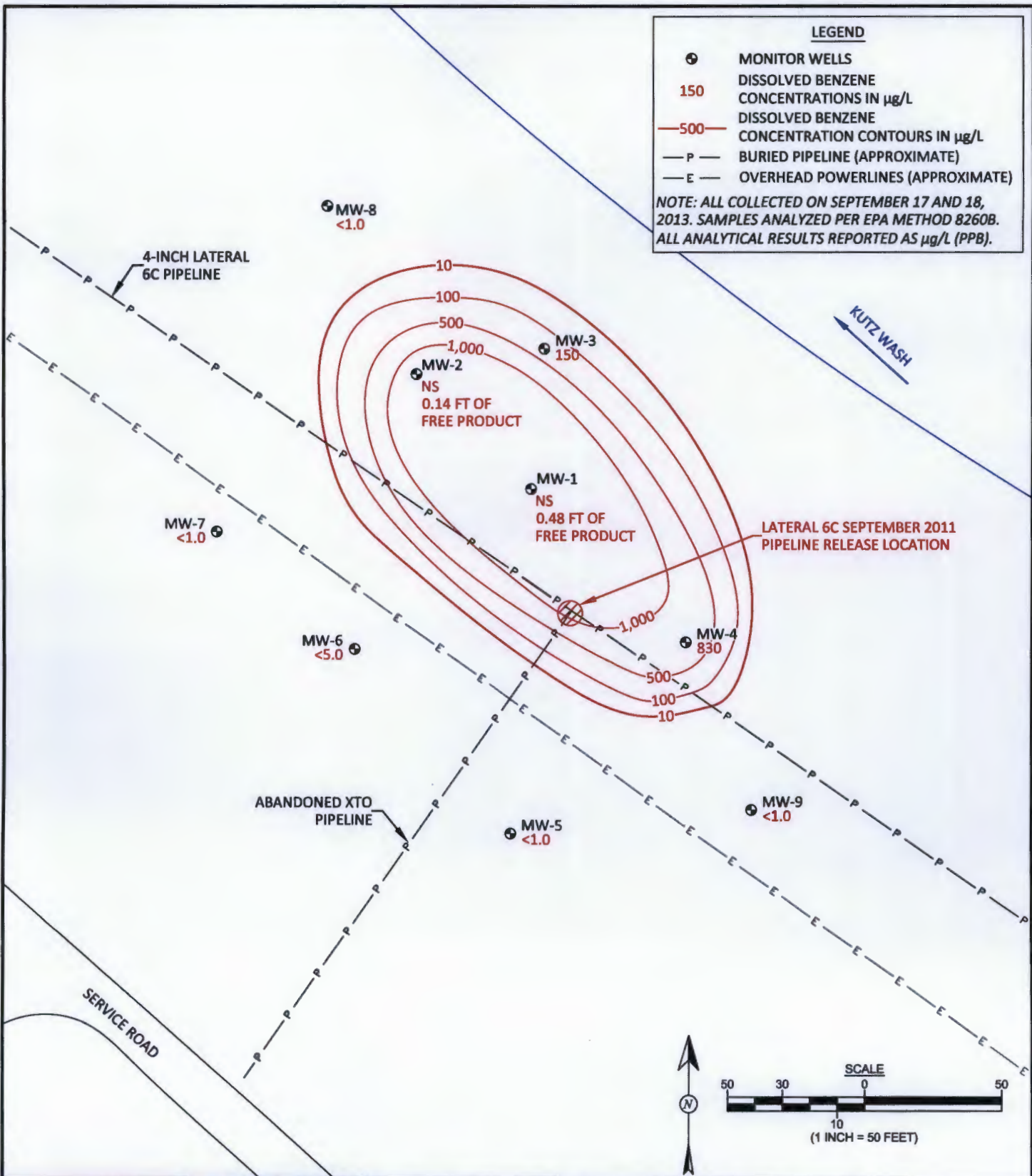
FIGURE 4

GROUNDWATER CONTAMINANT CONCENTRATIONS, SEPTEMBER 2013
 ENTERPRISE FIELD SERVICES, LLC
 LATERAL 6C SEPTEMBER 2011 PIPELINE RELEASE
 NE $\frac{1}{4}$, SW $\frac{1}{4}$, SECTION 26, T28N, R11W
 SAN JUAN COUNTY, NEW MEXICO
 N36.63202, W107.97400

LEGEND

- ⊕ MONITOR WELLS
- 150 DISSOLVED BENZENE CONCENTRATIONS IN $\mu\text{g/L}$
- 500 DISSOLVED BENZENE CONCENTRATION CONTOURS IN $\mu\text{g/L}$
- P - BURIED PIPELINE (APPROXIMATE)
- E - OVERHEAD POWERLINES (APPROXIMATE)

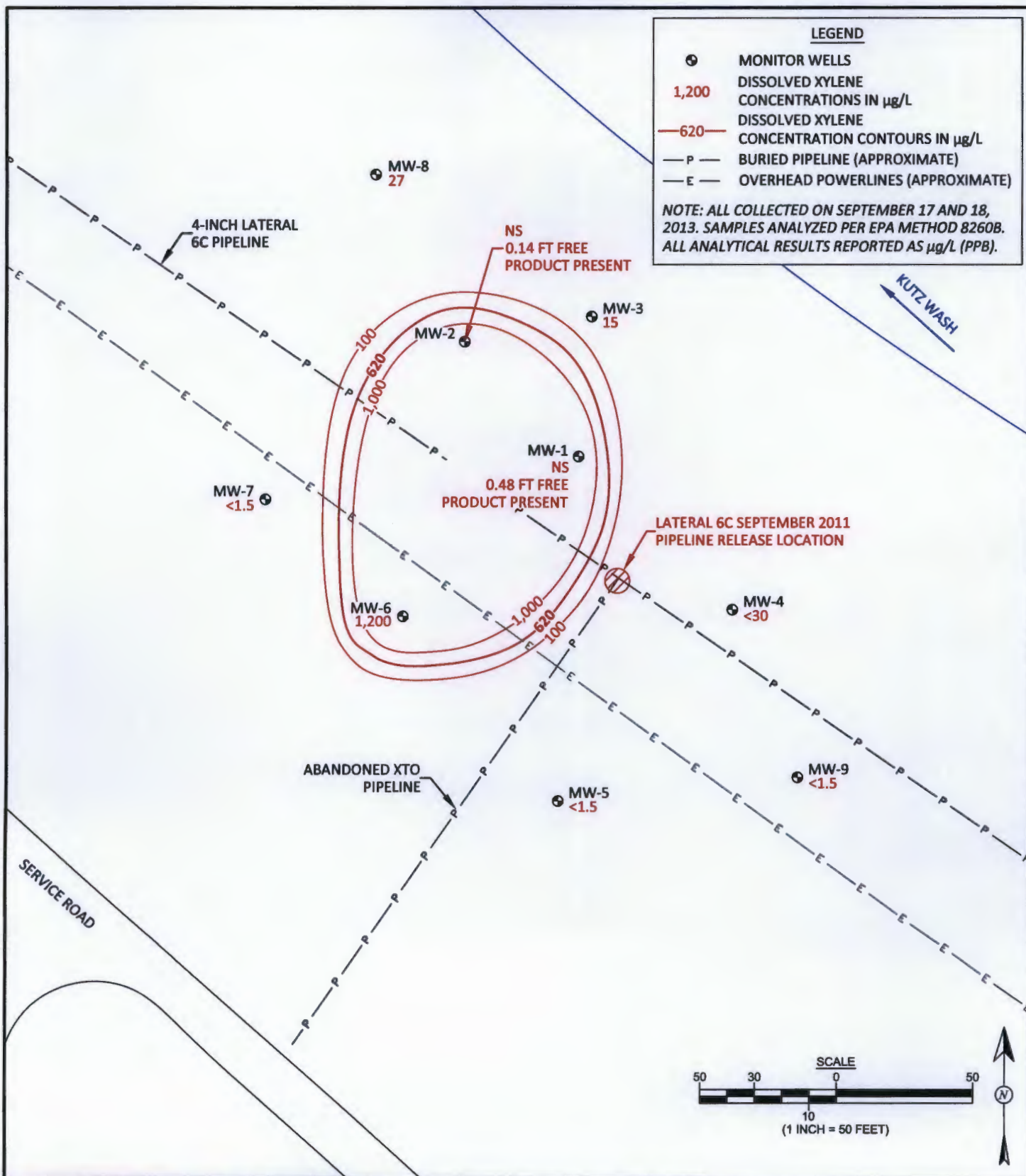
NOTE: ALL COLLECTED ON SEPTEMBER 17 AND 18, 2013. SAMPLES ANALYZED PER EPA METHOD 8260B. ALL ANALYTICAL RESULTS REPORTED AS $\mu\text{g/L}$ (PPB).



DRAWN BY: C. Lameman	DATE DRAWN: September 18, 2012
REVISIONS BY: C. Lameman	DATE REVISED: October 6, 2013
CHECKED BY: H. Woods	DATE CHECKED: October 6, 2013
APPROVED BY: E. McNally	DATE APPROVED: October 6, 2013

FIGURE 5

DISSOLVED BENZENE CONCENTRATION CONTOURS, SEPTEMBER 2013
 ENTERPRISE FIELD SERVICES, LLC
 LATERAL 6C SEPTEMBER 2011 PIPELINE RELEASE
 NE¼ SW¼, SECTION 26, T28N, R11W
 SAN JUAN COUNTY, NEW MEXICO
 N36.63202, W107.97400



Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: September 18, 2012
REVISIONS BY: C. Lameman	DATE REVISED: October 6, 2013
CHECKED BY: H. Woods	DATE CHECKED: October 6, 2013
APPROVED BY: E. McNally	DATE APPROVED: October 6, 2013

FIGURE 6

DISSOLVED XYLENE CONCENTRATION CONTOURS, SEPTEMBER 2013
 ENTERPRISE FIELD SERVICES, LLC
 LATERAL 6C SEPTEMBER 2011 PIPELINE RELEASE
 NE¼ SW¼, SECTION 26, T28N, R11W
 SAN JUAN COUNTY, NEW MEXICO
 N36.63202, W107.97400

FIGURE 7

**ADDITIONAL MONITOR WELL LOCATIONS AND RESULTS
OCTOBER 2013**
 ENTERPRISE FIELD SERVICES, LLC
 LATERAL 6C SEPTEMBER 2011
 PIPELINE RELEASE
 SAN JUAN COUNTY, NEW MEXICO
 NE¼ SW¼, SECTION 26, T28N, R11W
 N36.63202, W107.97400



Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: November 19, 2013
REVISIONS BY: C. Lameman	DATE REVISED: November 19, 2013
CHECKED BY: H. Woods	DATE CHECKED: November 19, 2013
APPROVED BY: E. McNally	DATE APPROVED: November 19, 2013

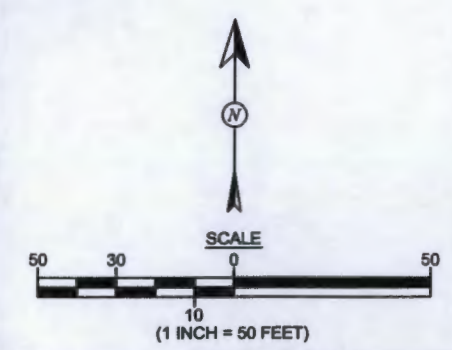
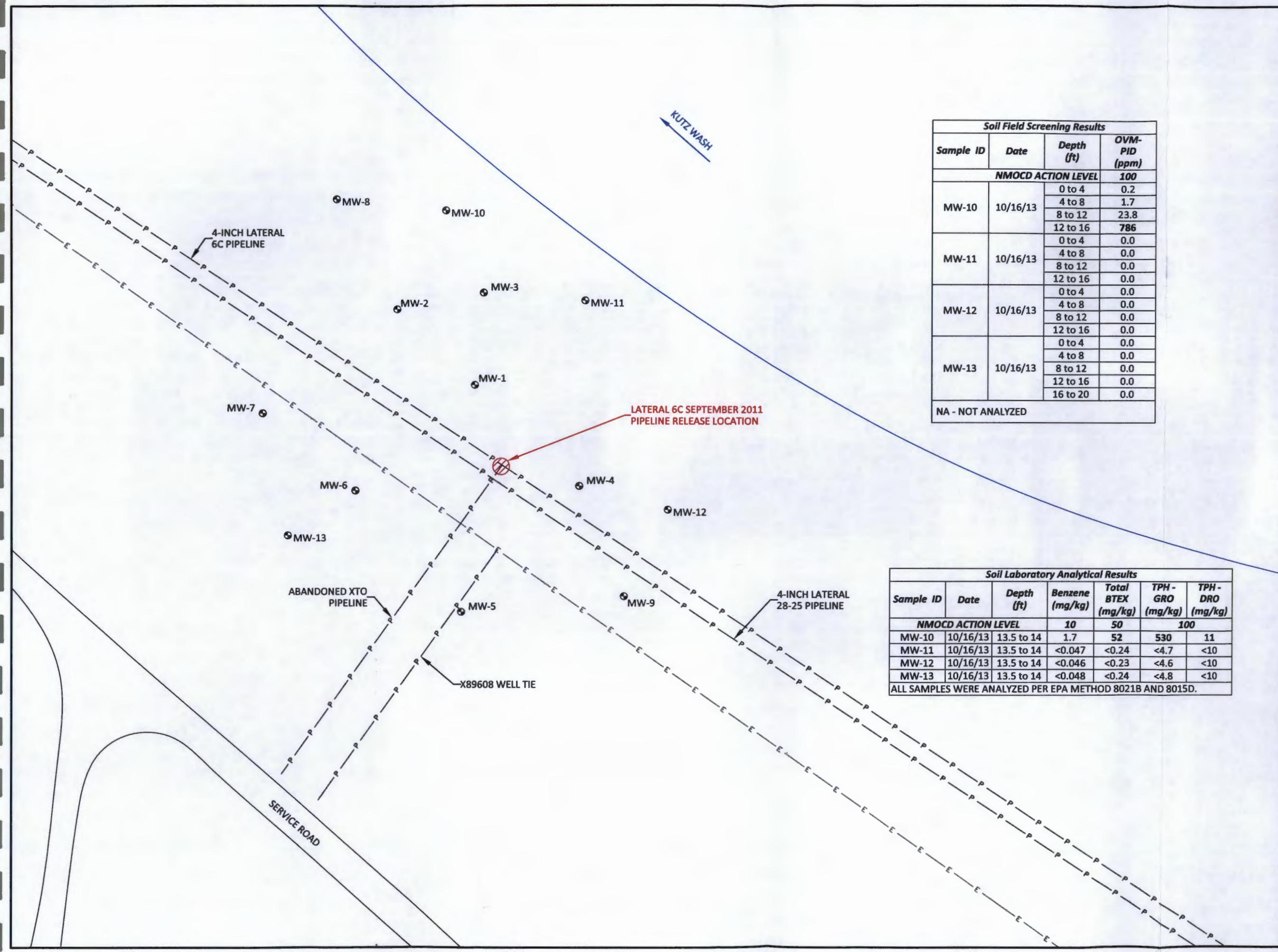
LEGEND

- ⊕ MONITOR WELL LOCATION
- P — BURIED PIPELINE (APPROXIMATE)
- E — OVERHEAD POWERLINES (APPROXIMATE)

Sample ID	Date	Depth (ft)	OVM-PID (ppm)	
NMOCD ACTION LEVEL			100	
MW-10	10/16/13	0 to 4	0.2	
		4 to 8	1.7	
		8 to 12	23.8	
		12 to 16	786	
MW-11	10/16/13	0 to 4	0.0	
		4 to 8	0.0	
		8 to 12	0.0	
		12 to 16	0.0	
MW-12	10/16/13	0 to 4	0.0	
		4 to 8	0.0	
		8 to 12	0.0	
		12 to 16	0.0	
MW-13	10/16/13	0 to 4	0.0	
		4 to 8	0.0	
		8 to 12	0.0	
		12 to 16	0.0	
16 to 20				0.0
NA - NOT ANALYZED				

Sample ID	Date	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)
NMOCD ACTION LEVEL			10	50	100	
MW-10	10/16/13	13.5 to 14	1.7	52	530	11
MW-11	10/16/13	13.5 to 14	<0.047	<0.24	<4.7	<10
MW-12	10/16/13	13.5 to 14	<0.046	<0.23	<4.6	<10
MW-13	10/16/13	13.5 to 14	<0.048	<0.24	<4.8	<10

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



MONITORING WELL SAMPLING RECORD

Animas Environmental Services

Monitor Well No: MW-1

624 E. Comanche, Farmington NM 87401

Tel. (505) 564-2281 Fax (505) 324-2022

Site: Groundwater Sampling

Project No.: AES 110904

Location: Enterprise Field Services, LLC

Date: 9.17.2013

Project: Lateral 6C

Arrival Time: 1110

Sampling Technician: L. Lamore

Air Temp: _____

Purge / No Purge: N/A

T.O.C. Elev. (ft): 5579.73

Well Diameter (in): 2

Total Well Depth (ft): 27.6

Initial D.T.W. (ft): 14.54 Time: 1110 (taken at initial gauging of all wells)

Confirm D.T.W. (ft): _____ Time: _____ (taken prior to purging well)

Final D.T.W. (ft): _____ Time: _____ (taken after sample collection)

If NAPL Present: D.T.P.: 15.79 D.T.W.: 16.97 Thickness: .48 Time: 1110

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (μ S) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations

Analytical Parameters (include analysis method and number and type of sample containers)

NO Samples NAPL

Disposal of Purged Water: N/A
 Collected Samples Stored on Ice in Cooler: N/A
 Chain of Custody Record Complete: N/A

Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM

Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

NO Samples NAPL

revised: 08/10/09

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-2

Animas Environmental Services

624 E. Comanche, Farmington NM 87401

Tel. (505) 564-2281 Fax (505) 324-2022

Site: Groundwater Sampling
 Location: Enterprise Field Services, LLC
 Project: Lateral 6C
 Sampling Technician: LL
 Purge / No Purge: NO SAMPLES
 Well Diameter (in): 2
 Initial D.T.W. (ft): 16.54 Time: 1104
 Confirm D.T.W. (ft): _____ Time: _____
 Final D.T.W. (ft): _____ Time: _____
 If NAPL Present: D.T.P.: 16.40 D.T.W.: 16.54

Project No.: AES 110904
 Date: 9.17.2013
 Arrival Time: 1104
 Air Temp: 70° F
 T.O.C. Elev. (ft): 5579.39
 Total Well Depth (ft): 26.3
 (taken at initial gauging of all wells)
 (taken prior to purging well)
 (taken after sample collection)
 Thickness: .14 Time: 1104

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations

Analytical Parameters (include analysis method and number and type of sample containers)

No Samples NAPL

Disposal of Purged Water: N/A
 Collected Samples Stored on Ice in Cooler: N/A
 Chain of Custody Record Complete: N/A

Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM

Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailor.

Notes/Comments:
No Samples

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-3

Animas Environmental Services

624 E. Comanche, Farmington NM 87401

Tel. (505) 564-2281 Fax (505) 324-2022

Site: Groundwater Sampling

Project No.: AES 110904

Location: Enterprise Field Services, LLC

Date: 9.17.2013 ⁰⁹⁻¹⁸⁻²⁰¹³

Project: Lateral 6C

Arrival Time: 1234 ^{9:18.2013}

Sampling Technician: L.L.

Air Temp: 75° F

1350 sample

Purge / No Purge: Purge

T.O.C. Elev. (ft): 5579.52

Well Diameter (in): 2

Total Well Depth (ft): 25.88

Initial D.T.W. (ft): 15.98 Time: 11.02 (taken at initial gauging of all wells)

Confirm D.T.W. (ft): 15.96 Time: 1238 ^(9-18 2013) (taken prior to purging well)

Final D.T.W. (ft): 16.25 Time: 1353 (taken after sample collection)

If NAPL Present: D.T.P.: _____ D.T.W.: _____ Thickness: _____ Time: _____

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1248	17.64	10.86	1.08	6.99	-151.2	5 gal.	H ₂ O clear slight
1256	17.56	10.71	0.67	6.95	-156.6	1.0 gal.	H ₂ O clear sheer
1301	17.07	10.62	0.57	6.95	-159.0	1.5 gal.	H ₂ O clear sheer
1307	18.04	10.33	0.50	6.95	-159.3	2.0 gal.	H ₂ O clear
1313	17.51	10.35	0.48	6.97	-161.8	2.5 gal.	H ₂ O clear
1320	17.19	10.10	0.44	6.98	-163.9	3.0 gal.	H ₂ O clear
1327	17.00	10.01	0.43	6.99	-169.7	3.5 gal.	H ₂ O clear
1335	16.97	9.877	0.41	7.00	-173.6	4.0 gal.	H ₂ O slight gray
1341	16.89	9.945	0.40	6.99	-174.6	4.5 gal.	H ₂ O slight gray
1350	17.00	9.841	0.41	6.99	-174.2	5.0 gal.	H ₂ O slight gray some sheer

Analytical Parameters (include analysis method and number and type of sample containers)

8260 BTEX

SM 2540 C TDS

Disposal of Purged Water: Into 55 gal. drum, delivered to land farm

Collected Samples Stored on Ice in Cooler: yes

Chain of Custody Record Complete: yes

Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM

Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter

and New Disposable Bailer WS 700 sampler Pump

Notes/Comments:

9.92 H₂O column

1.62 H₂O volume

5.0 gallons to be purged

revised: 08/10/09

MONITORING WELL SAMPLING RECORD

Animas Environmental Services

Monitor Well No: MW-4

624 E. Comanche, Farmington NM 87401

Tel. (505) 564-2281 Fax (505) 324-2022

Site: Groundwater Sampling

Project No.: AES 110904

Location: Enterprise Field Services, LLC

Date: 9-17-2013 9-18-2013

Project: Lateral 6C

Arrival Time: 1116 9-18-2013

Sampling Technician: L. Lannon

Air Temp: 72° F

Purge / No Purge: Purge

T.O.C. Elev. (ft): 5580.32

Well Diameter (in): 2

Total Well Depth (ft): 24.39

Initial D.T.W. (ft): 15.75 Time: 1100 9-17-2013 (taken at initial gauging of all wells)

Confirm D.T.W. (ft): 15.74 Time: 1120 9-18-2013 (taken prior to purging well)

Final D.T.W. (ft): 15.76 Time: 1217 (taken after sample collection)

If NAPL Present: D.T.P.: _____ D.T.W.: _____ Thickness: _____ Time: _____

1214 Sample

9-18-2013 Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1130	18.25	8.641	2.63	7.19	-193.1	0.5 gal.	clear H ₂ O
1136	18.31	8.716	1.13	7.12	-204.5	1.0 gal.	clear H ₂ O
1141	18.41	8.625	0.86	7.11	-210.3	1.5 gal.	clear H ₂ O
1146	18.42	8.600	0.74	7.11	-213.7	2.0 gal.	clear H ₂ O
1151	18.24	8.576	0.65	7.10	-216.2	2.5 gal.	clear H ₂ O
1157	18.57	8.524	0.59	7.11	-217.7	3.0 gal.	clear H ₂ O
1202	18.54	8.532	0.55	7.10	-218.0	3.5 gal.	clear H ₂ O
1209	18.10	8.583	0.52	7.11	-223.2	4.0 gal.	clear H ₂ O
1214	18.42	8.425	0.49	7.11	-228.8	4.25 gal.	clear H ₂ O

Analytical Parameters (include analysis method and number and type of sample containers)

8260 BTEX

SM 2540 C TDS

Disposal of Purged Water: Into 55 gal drum delivered to land farm

Collected Samples Stored on Ice in Cooler: Yes

Chain of Custody Record Complete: Yes

Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM

Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter

and New Disposable Bailer WS 700 Sampler Pump

Notes/Comments:

8.65 H₂O column

1.41 H₂O volume

4.25 gallons to be purged

revised: 08/10/09

well had odor of H₂S upon initial opening of lid.

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-5

Animas Environmental Services

624 E. Comanche, Farmington NM 87401

Tel. (505) 564-2281 Fax (505) 324-2022

Site: Groundwater Sampling

Project No.: AES 110904

Location: Enterprise Field Services, LLC

Date: 9-17-2013

Project: Lateral 6C

Arrival Time: 1242 1356

Sampling Technician: L.L.

Air Temp: 87.6°

Purge / No Purge: Purge

T.O.C. Elev. (ft): 5583.53

Well Diameter (in): 2

Total Well Depth (ft): 25.98

Initial D.T.W. (ft): 19.55 Time: 1050 (taken at initial gauging of all wells)

Confirm D.T.W. (ft): 19.55 Time: 1243 (taken prior to purging well)

Final D.T.W. (ft): 19.60 Time: 1359 (taken after sample collection)

If NAPL Present: D.T.P.: D.T.W.: Thickness: Time:

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1300	21.27	7.357	2.93	7.21	-68.2	.5 gal.	H ₂ O clear but organic floaties
1324	20.31	7.526	3.18	7.18	-58.2	1.0 gal.	clear H ₂ O
1333	20.33	7.546	3.56	7.20	-59.1	1.5 gal.	clear H ₂ O
1345	20.41	7.581	3.73	7.22	-58.5	2.0 gal.	Clear H ₂ O
1356	19.23	7.545	3.72	7.23	-60.8	3.15	clear H ₂ O

Analytical Parameters (include analysis method and number and type of sample containers)

8260 BTEX

SM 2540 C TDS

Disposal of Purged Water: Into 55 gal drum, delivered to Steelhead

Collected Samples Stored on Ice in Cooler: yes

Chain of Custody Record Complete: Yes

Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM

Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter

and New Disposable Bailer

Notes/Comments:

6.43 | Well is extremely slow to pump.

1.05

3.15

revised: 08/10/09

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-6

Animas Environmental Services

624 E. Comanche, Farmington NM 87401

Tel. (505) 564-2281 Fax (505) 324-2022

Site: Groundwater Sampling

Project No.: AES 110904

Location: Enterprise Field Services, LLC

Date: 9-17-2013 - 9-18-2013

Project: Lateral 6C

Arrival Time: 0823 0947 sample

Sampling Technician: L.L.

Air Temp: 71° F

Purge / No Purge: Purge

T.O.C. Elev. (ft): 5582.22

Well Diameter (in): 2

Total Well Depth (ft): 25.37

Initial D.T.W. (ft): 18.74 Time: 1055 (taken at initial gauging of all wells)

Confirm D.T.W. (ft): 18.74 Time: 0825 (taken prior to purging well) 9-18-2013

Final D.T.W. (ft): 18.76 Time: 0950 (taken after sample collection)

If NAPL Present: D.T.P.: _____ D.T.W.: _____ Thickness: _____ Time: _____

9-18-2013 Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
0910	16.18	7.237	2.29	7.9	-316.6	1/2 gal.	Clear H ₂ O slight
0917	16.15	7.558	1.16	7.26	-351.0	1.0 gal.	gray H ₂ O sheen odor
0921	16.56	7.613	0.87	7.17	-351.0	1.5 gal	gray H ₂ O sheen odor
0929	16.91	7.777	0.72	7.18	-354.7	2.0 gal.	gray H ₂ O sheen odor
0934	17.03	7.775	0.67	7.20	-355.8	2.5 gal	gray H ₂ O "
0941	17.24	7.856	0.62	7.19	-359.3	3.0 gal	gray H ₂ O sheen odor
0947	17.31	8.042	0.59	7.9	-357.5	3.25 gal.	gray H ₂ O sheen odor H ₂ S odor

Analytical Parameters (include analysis method and number and type of sample containers)

Disposal of Purged Water: Into 55 gal drum

Collected Samples Stored on Ice in Cooler: yes

Chain of Custody Record Complete: yes

Analytical Laboratory: Half Environmental Analysis Laboratory, Albuquerque, NM

Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter

~~and New Disposable Bailer~~ WS700 Sampler Pump

Notes/Comments:

6.63 H₂O column

1.08 H₂O volume

3.25 gal. to be purged

revised: 08/10/09

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-7

Animas Environmental Services

624 E. Comanche, Farmington NM 87401

Tel. (505) 564-2281 Fax (505) 324-2022

Site: Groundwater Sampling

Project No.: AES 110904

Location: Enterprise Field Services, LLC

Date: 9.17.2013

Project: Lateral 6C

Arrival Time: 1420 1643 Sample Time

Sampling Technician: L.L.

Air Temp: 87° F

Purge / No Purge: Purge

T.O.C. Elev. (ft): 5582.24

Well Diameter (in): 2

Total Well Depth (ft): 26.33

Initial D.T.W. (ft): 19.22 Time: 10.52 (taken at initial gauging of all wells)

Confirm D.T.W. (ft): 19.22 Time: 1424 (taken prior to purging well)

Final D.T.W. (ft): 19.24 Time: 1645 (taken after sample collection)

If NAPL Present: D.T.P.: D.T.W.: Thickness: Time:

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1444	19.89	8.597	2.90	7.45	-287.7	5.0 gal	Slight sheen
1508	20.08	8.560	3.24	7.43	-297.5	1.0 gal.	gray H ₂ O
1519	20.31	8.542	4.51	7.50	-293.2	1.5 gal	sheen, odor
1544	22.22		-	7.47	292.1	2.0 gal.	gray H ₂ O odor
1606	21.14	8.284	7.53	7.64	-283.1	2.5 gal	gray H ₂ O odor
1627	19.87	4.598	8.63	7.59	-288.1	3.0 gal	sheen, gray
1643	20.30	4.530	8.19	7.44	-294.4	3.5 gal.	gray H ₂ O sheen odor.

Analytical Parameters (include analysis method and number and type of sample containers)

8260 BTEX
SM 2540 C TDS

Disposal of Purged Water: Into 55 gal. drum delivered to Landform
 Collected Samples Stored on Ice in Cooler: yes
 Chain of Custody Record Complete: yes
 Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
 Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailor WS 700 pump

Notes/Comments:

7.11 H₂O column
 1.16 H₂O volume
 3.50 to be purged
 revised: 08/10/09

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-8

Animas Environmental Services

624 E. Comanche, Farmington NM 87401

Tel. (505) 564-2281 Fax (505) 324-2022

Site: Groundwater Sampling

Project No.: AES 110904

Location: Enterprise Field Services, LLC

Date: ~~9-17-2013~~ 9-18-2013

Project: Lateral 6C

Arrival Time: 1002 9-18-2013

Sampling Technician: L.L.

Air Temp: 71°F 1103 Sample

Purge / No Purge: Purge

T.O.C. Elev. (ft): 5577.81

Well Diameter (in): 2

Total Well Depth (ft): 25.26

Initial D.T.W. (ft): 15.08 Time: 1058 ⁹⁻¹⁷⁻²⁰¹³ (taken at initial gauging of all wells)

Confirm D.T.W. (ft): 15.08 Time: 1006 ⁹⁻¹⁸⁻²⁰¹³ (taken prior to purging well)

Final D.T.W. (ft): 15.10 Time: 1106 (taken after sample collection)

If NAPL Present: D.T.P.: _____ D.T.W.: _____ Thickness: _____ Time: _____

9-18-2013 Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1023	17.44	7.380	1.63	7.57	-209.8	1.0 gal.	H2O clear
1032	17.65	7.358	1.46	7.47	-214.7	2.0 gal.	H2O clear
1036	17.65	7.357	1.38	7.43	-218.7	2.5 gal.	H2O clear
1042	17.67	7.364	1.26	7.41	-224.1	3.0 gal.	H2O clear
1048	17.38	7.363	1.12	7.41	-227.4	3.5 gal.	H2O clear
1053	17.85	7.394	1.00	7.40	-231.5	4.0 gal.	H2O clear
1057	17.92	7.404	0.92	7.40	-226.3	4.5 gal.	H2O clear
1103	17.93	7.419	0.83	7.39	-224.8	5.0 gal.	H2O clear

Analytical Parameters (include analysis method and number and type of sample containers)

8260 BTEX
SM 2540 C TDS

Disposal of Purged Water: Into 56 gal. drum, delivered to Landfarm

Collected Samples Stored on Ice in Cooler: Yes

Chain of Custody Record Complete: Yes

Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM

Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter

and ~~New Disposable Bailor~~ WS 700 Pump

Notes/Comments:

10.18 H2O column

1.166 H2O volume

5.0 gal. to be purged

revised: 08/10/09

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-9

Animas Environmental Services

624 E. Comanche, Farmington NM 87401

Tel. (505) 564-2281 Fax (505) 324-2022

Site: Groundwater Sampling

Project No.: AES 110904

Location: Enterprise Field Services, LLC

Date: 9-17-2013

Project: Lateral 6C

Arrival Time: 1120 1224 sample

Sampling Technician: Lamore, L

Air Temp: 74°F

Purge / No Purge: Purge

T.O.C. Elev. (ft): 5582.48

Well Diameter (in): 2

Total Well Depth (ft): 26.26

Initial D.T.W. (ft): 17.74 Time: 1047 (taken at initial gauging of all wells)

Confirm D.T.W. (ft): 17.74 Time: 1124 (taken prior to purging well)

Final D.T.W. (ft): 17.90 Time: 1226 (taken after sample collection)

If NAPL Present: D.T.P.: D.T.W.: Thickness: Time:

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1145	15.93	7.416	4.86	7.16	-15.5	0.5 gal	clear H ₂ O
1150	15.86	7.421	4.35	7.14	-19.2	1.0 gal.	H ₂ O clear
1153	15.85	6.658	3.42	7.14	18.5	1.5 gal	H ₂ O clear
1157	15.79	6.620	0.70	7.15	-18.3	2.0 gal.	H ₂ O clear
1201	16.07	7.465	0.69	7.15	-18.9	2.5 gal.	H ₂ O clear
1209	16.21	7.498	0.60	7.13	-22.4	3.0 gal.	H ₂ O clear
1216	16.15	7.497	0.50	7.13	-23.0	3.5 gal.	H ₂ O clear
1220	15.87	7.495	0.39	7.14	-24.8	4.0 gal.	H ₂ O clear
1224	16.20	7.500	0.30	7.12	27.9	4.25 gal	H ₂ O clear

Analytical Parameters (include analysis method and number and type of sample containers)

8260 BTEX

SM 2540 C TDS

Disposal of Purged Water: Into 55 gal. drum, to ETech land farm

Collected Samples Stored on Ice in Cooler: Yes

Chain of Custody Record Complete: Yes

Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM

Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter

and New Disposable Bailor - W5700 Sampler

Notes/Comments:

852

4.25 gal.

revised: 08/10/09



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

October 01, 2013

Ross Kennemer

Animas Environmental Services

624 East Comanche

Farmington, NM 87401

TEL: (505) 486-1776

FAX (505) 324-2022

RE: Enterprose Lateral 6C

OrderNo.: 1309895

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory received 8 sample(s) on 9/19/2013 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. In order to properly interpret your results it is imperative that you review this report in its entirety. 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. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: MW-3

Project: Enterprose Lateral 6C

Collection Date: 9/18/2013 1:50:00 PM

Lab ID: 1309895-001

Matrix: AQUEOUS

Received Date: 9/19/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JMP
Benzene	150	5.0		µg/L	5	9/23/2013 2:06:30 PM	R13544
Toluene	28	5.0		µg/L	5	9/23/2013 2:06:30 PM	R13544
Ethylbenzene	ND	5.0		µg/L	5	9/23/2013 2:06:30 PM	R13544
Xylenes, Total	15	7.5		µg/L	5	9/23/2013 2:06:30 PM	R13544
Surr: 1,2-Dichloroethane-d4	92.7	70-130		%REC	5	9/23/2013 2:06:30 PM	R13544
Surr: 4-Bromofluorobenzene	98.0	70-130		%REC	5	9/23/2013 2:06:30 PM	R13544
Surr: Dibromofluoromethane	95.5	70-130		%REC	5	9/23/2013 2:06:30 PM	R13544
Surr: Toluene-d8	97.6	70-130		%REC	5	9/23/2013 2:06:30 PM	R13544
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: JML
Total Dissolved Solids	4670	20.0	*	mg/L	1	9/23/2013 3:27:00 PM	9424

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- 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
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Analytical Report

Lab Order 1309895

Date Reported: 10/1/2013

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Animas Environmental Services**Client Sample ID:** MW-4**Project:** Enterprose Lateral 6C**Collection Date:** 9/18/2013 12:14:00 PM**Lab ID:** 1309895-002**Matrix:** AQUEOUS**Received Date:** 9/19/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JMP
Benzene	830	20		µg/L	20	9/20/2013 11:03:49 PM	R13514
Toluene	39	20		µg/L	20	9/20/2013 11:03:49 PM	R13514
Ethylbenzene	ND	20		µg/L	20	9/20/2013 11:03:49 PM	R13514
Xylenes, Total	ND	30		µg/L	20	9/20/2013 11:03:49 PM	R13514
Surr: 1,2-Dichloroethane-d4	91.0	70-130		%REC	20	9/20/2013 11:03:49 PM	R13514
Surr: 4-Bromofluorobenzene	91.8	70-130		%REC	20	9/20/2013 11:03:49 PM	R13514
Surr: Dibromofluoromethane	95.9	70-130		%REC	20	9/20/2013 11:03:49 PM	R13514
Surr: Toluene-d8	95.4	70-130		%REC	20	9/20/2013 11:03:49 PM	R13514
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: JML
Total Dissolved Solids	4030	20.0	*	mg/L	1	9/23/2013 3:27:00 PM	9424

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:		
*	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
O	RSD is greater than RSDlimit	P Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: MW-5

Project: Enterprose Lateral 6C

Collection Date: 9/17/2013 1:56:00 PM

Lab ID: 1309895-003

Matrix: AQUEOUS

Received Date: 9/19/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JMP
Benzene	ND	1.0		µg/L	1	9/20/2013 5:47:59 PM	R13514
Toluene	ND	1.0		µg/L	1	9/20/2013 5:47:59 PM	R13514
Ethylbenzene	ND	1.0		µg/L	1	9/20/2013 5:47:59 PM	R13514
Xylenes, Total	ND	1.5		µg/L	1	9/20/2013 5:47:59 PM	R13514
Surr: 1,2-Dichloroethane-d4	89.5	70-130		%REC	1	9/20/2013 5:47:59 PM	R13514
Surr: 4-Bromofluorobenzene	90.6	70-130		%REC	1	9/20/2013 5:47:59 PM	R13514
Surr: Dibromofluoromethane	91.6	70-130		%REC	1	9/20/2013 5:47:59 PM	R13514
Surr: Toluene-d8	96.2	70-130		%REC	1	9/20/2013 5:47:59 PM	R13514
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: JML
Total Dissolved Solids	3630	20.0	*	mg/L	1	9/23/2013 3:27:00 PM	9424

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- 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
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Analytical Report

Lab Order **1309895**

Date Reported: **10/1/2013**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: MW-6

Project: Enterprose Lateral 6C

Collection Date: 9/18/2013 9:47:00 AM

Lab ID: 1309895-004

Matrix: AQUEOUS

Received Date: 9/19/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JMP
Benzene	ND	5.0		µg/L	5	9/21/2013 12:29:23 AM	R13514
Toluene	ND	5.0		µg/L	5	9/21/2013 12:29:23 AM	R13514
Ethylbenzene	180	5.0		µg/L	5	9/21/2013 12:29:23 AM	R13514
Xylenes, Total	1200	75		µg/L	50	9/21/2013 12:01:00 AM	R13514
Surr: 1,2-Dichloroethane-d4	91.9	70-130		%REC	5	9/21/2013 12:29:23 AM	R13514
Surr: 4-Bromofluorobenzene	85.1	70-130		%REC	5	9/21/2013 12:29:23 AM	R13514
Surr: Dibromofluoromethane	98.3	70-130		%REC	5	9/21/2013 12:29:23 AM	R13514
Surr: Toluene-d8	92.4	70-130		%REC	5	9/21/2013 12:29:23 AM	R13514
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: JML
Total Dissolved Solids	3750	20.0	*	mg/L	1	9/23/2013 3:27:00 PM	9424

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* 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
	O RSD is greater than RSDlimit	P Sample pH greater than 2 for VOA and TOC only.
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S Spike Recovery outside accepted recovery limits	

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: MW-7

Project: Enterpose Lateral 6C

Collection Date: 9/17/2013 4:43:00 PM

Lab ID: 1309895-005

Matrix: AQUEOUS

Received Date: 9/19/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JMP
Benzene	ND	1.0		µg/L	1	9/20/2013 7:13:18 PM	R13514
Toluene	ND	1.0		µg/L	1	9/20/2013 7:13:18 PM	R13514
Ethylbenzene	ND	1.0		µg/L	1	9/20/2013 7:13:18 PM	R13514
Xylenes, Total	ND	1.5		µg/L	1	9/20/2013 7:13:18 PM	R13514
Surr: 1,2-Dichloroethane-d4	90.5	70-130		%REC	1	9/20/2013 7:13:18 PM	R13514
Surr: 4-Bromofluorobenzene	88.6	70-130		%REC	1	9/20/2013 7:13:18 PM	R13514
Surr: Dibromofluoromethane	94.0	70-130		%REC	1	9/20/2013 7:13:18 PM	R13514
Surr: Toluene-d8	96.5	70-130		%REC	1	9/20/2013 7:13:18 PM	R13514
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: JML
Total Dissolved Solids	4040	20.0	*	mg/L	1	9/23/2013 3:27:00 PM	9424

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* 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
	O RSD is greater than RSDlimit	P Sample pH greater than 2 for VOA and TOC only.
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S Spike Recovery outside accepted recovery limits	

Analytical Report

Lab Order 1309895

Date Reported: 10/1/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: MW-8

Project: Enterprose Lateral 6C

Collection Date: 9/18/2013 11:08:00 AM

Lab ID: 1309895-006

Matrix: AQUEOUS

Received Date: 9/19/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JMP
Benzene	ND	1.0		µg/L	1	9/20/2013 7:41:41 PM	R13514
Toluene	ND	1.0		µg/L	1	9/20/2013 7:41:41 PM	R13514
Ethylbenzene	3.4	1.0		µg/L	1	9/20/2013 7:41:41 PM	R13514
Xylenes, Total	27	1.5		µg/L	1	9/20/2013 7:41:41 PM	R13514
Surr: 1,2-Dichloroethane-d4	91.5	70-130		%REC	1	9/20/2013 7:41:41 PM	R13514
Surr: 4-Bromofluorobenzene	91.0	70-130		%REC	1	9/20/2013 7:41:41 PM	R13514
Surr: Dibromofluoromethane	97.6	70-130		%REC	1	9/20/2013 7:41:41 PM	R13514
Surr: Toluene-d8	95.4	70-130		%REC	1	9/20/2013 7:41:41 PM	R13514
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: JML
Total Dissolved Solids	3590	20.0	*	mg/L	1	9/23/2013 3:27:00 PM	9424

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* 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
	O RSD is greater than RSDlimit	P Sample pH greater than 2 for VOA and TOC only.
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S Spike Recovery outside accepted recovery limits	

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: MW-9

Project: Enterprose Lateral 6C

Collection Date: 9/17/2013 12:24:00 PM

Lab ID: 1309895-007

Matrix: AQUEOUS

Received Date: 9/19/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JMP
Benzene	ND	1.0		µg/L	1	9/20/2013 9:37:49 PM	R13514
Toluene	ND	1.0		µg/L	1	9/20/2013 9:37:49 PM	R13514
Ethylbenzene	ND	1.0		µg/L	1	9/20/2013 9:37:49 PM	R13514
Xylenes, Total	ND	1.5		µg/L	1	9/20/2013 9:37:49 PM	R13514
Surr: 1,2-Dichloroethane-d4	94.0	70-130		%REC	1	9/20/2013 9:37:49 PM	R13514
Surr: 4-Bromofluorobenzene	89.9	70-130		%REC	1	9/20/2013 9:37:49 PM	R13514
Surr: Dibromofluoromethane	97.1	70-130		%REC	1	9/20/2013 9:37:49 PM	R13514
Surr: Toluene-d8	96.0	70-130		%REC	1	9/20/2013 9:37:49 PM	R13514
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: JML
Total Dissolved Solids	3550	20.0	*	mg/L	1	9/23/2013 3:27:00 PM	9424

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	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
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: TRIP BLANK

Project: Enterprose Lateral 6C

Collection Date:

Lab ID: 1309895-008

Matrix: TRIP BLANK

Received Date: 9/19/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JMP
Benzene	ND	1.0		µg/L	1	9/20/2013 5:19:29 PM	R13514
Toluene	ND	1.0		µg/L	1	9/20/2013 5:19:29 PM	R13514
Ethylbenzene	ND	1.0		µg/L	1	9/20/2013 5:19:29 PM	R13514
Xylenes, Total	ND	1.5		µg/L	1	9/20/2013 5:19:29 PM	R13514
Surr: 1,2-Dichloroethane-d4	91.0	70-130		%REC	1	9/20/2013 5:19:29 PM	R13514
Surr: 4-Bromofluorobenzene	93.1	70-130		%REC	1	9/20/2013 5:19:29 PM	R13514
Surr: Dibromofluoromethane	96.8	70-130		%REC	1	9/20/2013 5:19:29 PM	R13514
Surr: Toluene-d8	95.0	70-130		%REC	1	9/20/2013 5:19:29 PM	R13514

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- 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
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1309895

01-Oct-13

Client: Animas Environmental Services

Project: Enterpose Lateral 6C

Sample ID	5mL rb	SampType:	MBLK	TestCode:	EPA Method 8260B: VOLATILES					
Client ID:	PBW	Batch ID:	R13514	RunNo:	13514					
Prep Date:		Analysis Date:	9/20/2013	SeqNo:	384574	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	1.5								
Surr: 1,2-Dichloroethane-d4	9.4		10.00		94.3	70	130			
Surr: 4-Bromofluorobenzene	9.6		10.00		96.1	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	9.8		10.00		97.5	70	130			

Sample ID	100ng lcs	SampType:	LCS	TestCode:	EPA Method 8260B: VOLATILES					
Client ID:	LCSW	Batch ID:	R13514	RunNo:	13514					
Prep Date:		Analysis Date:	9/20/2013	SeqNo:	384576	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	70	130			
Toluene	21	1.0	20.00	0	107	82.2	124			
Surr: 1,2-Dichloroethane-d4	9.6		10.00		95.6	70	130			
Surr: 4-Bromofluorobenzene	9.5		10.00		95.4	70	130			
Surr: Dibromofluoromethane	9.8		10.00		98.2	70	130			
Surr: Toluene-d8	9.6		10.00		96.5	70	130			

Sample ID	1309895-003ams	SampType:	MS	TestCode:	EPA Method 8260B: VOLATILES					
Client ID:	MW-5	Batch ID:	R13514	RunNo:	13514					
Prep Date:		Analysis Date:	9/20/2013	SeqNo:	384580	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	103	67.9	137			
Toluene	22	1.0	20.00	0	109	77	127			
Surr: 1,2-Dichloroethane-d4	9.2		10.00		91.7	70	130			
Surr: 4-Bromofluorobenzene	9.1		10.00		91.2	70	130			
Surr: Dibromofluoromethane	9.4		10.00		93.5	70	130			
Surr: Toluene-d8	9.7		10.00		96.9	70	130			

Sample ID	1309895-003amsd	SampType:	MSD	TestCode:	EPA Method 8260B: VOLATILES					
Client ID:	MW-5	Batch ID:	R13514	RunNo:	13514					
Prep Date:		Analysis Date:	9/20/2013	SeqNo:	384581	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	103	67.9	137	0.544	20	
Toluene	21	1.0	20.00	0	103	77	127	5.96	20	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- 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
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1309895
01-Oct-13

Client: Animas Environmental Services
Project: Enterprose Lateral 6C

Sample ID	SampType	TestCode: EPA Method 8260B: VOLATILES								
1309895-003amsd	MSD									
Client ID: MW-5	Batch ID: R13514	RunNo: 13514								
Prep Date:	Analysis Date: 9/20/2013	SeqNo: 384581			Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	9.3		10.00		93.2	70	130	0	0	
Surr: 4-Bromofluorobenzene	9.5		10.00		95.2	70	130	0	0	
Surr: Dibromofluoromethane	9.7		10.00		97.3	70	130	0	0	
Surr: Toluene-d8	9.5		10.00		94.7	70	130	0	0	

Sample ID	SampType	TestCode: EPA Method 8260B: VOLATILES								
5mL rb	MBLK									
Client ID: PBW	Batch ID: R13544	RunNo: 13544								
Prep Date:	Analysis Date: 9/23/2013	SeqNo: 385231			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	1.5								
Surr: 1,2-Dichloroethane-d4	9.3		10.00		93.3	70	130			
Surr: 4-Bromofluorobenzene	9.8		10.00		98.2	70	130			
Surr: Dibromofluoromethane	9.8		10.00		97.8	70	130			
Surr: Toluene-d8	9.7		10.00		97.2	70	130			

Sample ID	SampType	TestCode: EPA Method 8260B: VOLATILES								
100ng lcs	LCS									
Client ID: LCSW	Batch ID: R13544	RunNo: 13544								
Prep Date:	Analysis Date: 9/23/2013	SeqNo: 385233			Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	102	70	130			
Toluene	22	1.0	20.00	0	110	82.2	124			
Surr: 1,2-Dichloroethane-d4	9.3		10.00		92.8	70	130			
Surr: 4-Bromofluorobenzene	9.8		10.00		98.0	70	130			
Surr: Dibromofluoromethane	9.7		10.00		96.8	70	130			
Surr: Toluene-d8	9.8		10.00		97.6	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- 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
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1309895

01-Oct-13

Client: Animas Environmental Services

Project: Enterprose Lateral 6C

Sample ID	MB-9424	SampType:	MBLK	TestCode:	SM2540C MOD: Total Dissolved Solids					
Client ID:	PBW	Batch ID:	9424	RunNo:	13539					
Prep Date:	9/22/2013	Analysis Date:	9/23/2013	SeqNo:	385062	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID	LCS-9424	SampType:	LCS	TestCode:	SM2540C MOD: Total Dissolved Solids					
Client ID:	LCSW	Batch ID:	9424	RunNo:	13539					
Prep Date:	9/22/2013	Analysis Date:	9/23/2013	SeqNo:	385063	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1010	20.0	1000	0	101	80	120			

Sample ID	1309946-002AMS	SampType:	MS	TestCode:	SM2540C MOD: Total Dissolved Solids					
Client ID:	BatchQC	Batch ID:	9424	RunNo:	13539					
Prep Date:	9/22/2013	Analysis Date:	9/23/2013	SeqNo:	385084	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1190	20.0	1000	169.0	102	80	120			

Sample ID	1309946-002AMSD	SampType:	MSD	TestCode:	SM2540C MOD: Total Dissolved Solids					
Client ID:	BatchQC	Batch ID:	9424	RunNo:	13539					
Prep Date:	9/22/2013	Analysis Date:	9/23/2013	SeqNo:	385085	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1160	20.0	1000	169.0	99.0	80	120	2.47	5	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- 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
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Sample Log-In Check List

Client Name: Animas Environmental

Work Order Number: 1309895

RcptNo: 1

Received by/date: [Signature] 09/19/13

Logged By: Ashley Gallegos 9/19/2013 10:00:00 AM [Signature]

Completed By: Ashley Gallegos 9/19/2013 3:58:56 PM [Signature]

Reviewed By: [Signature] 9/20

Chain of Custody

- 1. Custody seals intact on sample bottles? Yes No Not Present
- 2. Is Chain of Custody complete? Yes No Not Present
- 3. How was the sample delivered? Courier

Log In

- 4. Was an attempt made to cool the samples? Yes No NA
- 5. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- 6. Sample(s) in proper container(s)? Yes No
- 7. Sufficient sample volume for indicated test(s)? Yes No
- 8. Are samples (except VOA and ONG) properly preserved? Yes No
- 9. Was preservative added to bottles? Yes No NA
- 10. VOA vials have zero headspace? Yes No No VOA Vials
- 11. Were any sample containers received broken? Yes No
- 12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes No
- 13. Are matrices correctly identified on Chain of Custody? Yes No
- 14. Is it clear what analyses were requested? Yes No
- 15. 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)

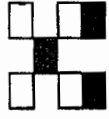
- 16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Standard Rush
 Project Name: _____
 Enterprise Lateral 6C
 Project #: _____

Project Manager: _____
 Ross Kennemer
 Sampler: Layina Lamone

Client: Animas Environmental Services
 Mailing Address: 624 E Comanche
 Farmington, NM 87401
 Phone #: 505-564-2281
 Email or Fax#: _____
 QA/QC Package:
 Standard Level 4 (Full Validation)
 Accreditation:
 NELAP Other
 EDD (Type) _____

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	Arsenic - EPA 200.8	Specific Conductance - EPA 120.1	TSS - SM 2540D, TDS - SM 2540	Sulfide A4500-SD	Salinity	Radioactivity - Alpha/Beta - EPA 900.0	Dissolved Gases - RSK 175	Major Anions - EPA300.0	Major Cations - EPA 200.7	Alkalinity - SM 2320B	BTEX - 8021B	TPH - EPA 8015B	8260B BTEX	SM 2540C TDS	
9-18-2013	1350	H ₂ O	MW-3	1-500 mL Plastic 3 - 40 ml VOA	Non / HCl														X	X
9-18-2013	1214	H ₂ O	MW-4	1-500 mL Plastic 3 - 40 ml VOA	Non / HCl														X	X
9-17-2013	1356	H ₂ O	MW-5	1-500 mL Plastic 3 - 40 ml VOA	Non / HCl														X	X
9-18-2013	0947	H ₂ O	MW-6	1-500 mL Plastic 3 - 40 ml VOA	Non / HCl														X	X
9-17-2013	1643	H ₂ O	MW-7	1-500 mL Plastic 3 - 40 ml VOA	Non / HCl														X	X
9-18-2013	1108	H ₂ O	MW-8	1-500 mL Plastic 3 - 40 ml VOA	Non / HCl														X	X
9-17-2013	1224	H ₂ O	MW-9	1-500 mL Plastic 3 - 40 ml VOA	Non / HCl														X	X
			Trip Blank																	X

Date: 9/18/13 1707 Relinquished by: *Lani Corne*
 Date: 9/18/13 1707 Received by: *Christine Walker*
 Date: 9/18/13 1008 Relinquished by: *Christine Walker*
 Date: 9/18/13 1008 Received by: *[Signature]*

Remarks: Bill to Animas Environmental

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.



Animas Environmental Services, LLC.
624 East Comanche Farmington, NM 87401

LOG OF : MW-10

ENTERPRISE FIELD SERVICES, LLC
LATERAL 6C SEPT. 2011 PIPELINE RELEASE
NE1/4 SW1/4 SEC. 26, T28N, R11W
SAN JUAN COUNTY, NEW MEXICO
N36.63202, W107.97400

Date Started : 10/16/13
Date Completed : 10/16/13
Hole Diameter : 2.35 in.
Drilling Method : GeoProbe
Sampling Method : Continuous

Latitude : To Be Surveyed
Longitude : To Be Surveyed
Survey By :
Logged By : H. Woods

Depth in Feet	Surf. Elev.	USCS	GRAPHIC	DESCRIPTION	PID (ppm)	Well: MW-10 Elev.: TBS
0						Stick-Up Cover
0 - 2		SM		Silty Sand, Brown, Moist, Very Fine to Fine Grained, No Staining, No Odor	0.2	Concrete
2 - 4						Bentonite Seal
4 - 10		SP		Poorly Graded Sand with Silt, Brown, Dry to Moist, Fine to Medium Grained, No Staining, No Odor	1.7	1" PVC Casing
10 - 12						Sand Pack (20/40)
12 - 14		SP		Poorly Graded Sand, Brown, Moist, Fine to Medium Grained, No Staining, Moderate to Heavy Odor		
14 - 14.5		SC		Clayey Sand, Brown to Black, Moist to Wet at 14 feet, Moderate to Heavy Staining, Heavy Odor to 14.5 feet	786	1" PVC 0.010" with Pre-Pack Screen
14.5 - 16		SC		Clayey Sand, Brown to Gray, Wet, Slight to No Staining, Slight to No Odor		
16 - 18						
18 - 20						



Animas Environmental Services, LLC.
624 East Comanche Farmington, NM 87401

LOG OF : MW-11

ENTERPRISE FIELD SERVICES, LLC
LATERAL 6C SEPT. 2011 PIPELINE RELEASE
NE1/4 SW1/4 SEC. 26, T28N, R11W
SAN JUAN COUNTY, NEW MEXICO
N36.63202, W107.97400

Date Started : 10/16/13
Date Completed : 10/16/13
Hole Diameter : 2.35 in.
Drilling Method : GeoProbe
Sampling Method : Continuous

Latitude : To Be Surveyed
Longitude : To Be Surveyed
Survey By :
Logged By : H. Woods

Depth in Feet	Surf. Elev.	USCS	GRAPHIC	DESCRIPTION	PID (ppm)	Well: MW-11 Elev.: TBS
0						Stick-Up Cover
0 - 4		SM		Silty Sand, Brown, Moist to Dry, Very Fine Grained, No Staining, No Odor	0.0	Concrete
4 - 14		SP		Poorly Graded Sand, Brown, Moist, Fine to Medium Grained, No Staining, No Odor, Silty Sand Lense at 7.5 feet, Trace Gravel from 8 to 12 feet	0.0	Bentonite Seal 1" PVC Casing
14 - 15		SC		Clayey Sand, Brown, Moist to Wet at 14 feet, Fine to Medium Grained	0.0	
15 - 20		SP		Poorly Graded Sand, Brown to Gray, Wet, Fine to Large Grained, Traces of Gravel, No Staining, No Odor, Trace Silt		Sand Pack (20/40) 1" PVC 0.010" with Pre-Pack Screen



Animas Environmental Services, LLC.
624 East Comanche Farmington, NM 87401

LOG OF : MW-12

ENTERPRISE FIELD SERVICES, LLC
LATERAL 6C SEPT. 2011 PIPELINE RELEASE
NE1/4 SW1/4 SEC. 26, T28N, R11W
SAN JUAN COUNTY, NEW MEXICO
N36.63202, W107.97400

Date Started : 10/16/13
Date Completed : 10/16/13
Hole Diameter : 2.35 in.
Drilling Method : GeoProbe
Sampling Method : Continuous

Latitude : To Be Surveyed
Longitude : To Be Surveyed
Survey By :
Logged By : H. Woods

Depth in Feet	Surf. Elev.	USCS	GRAPHIC	DESCRIPTION	PID (ppm)	
0		SC		Clayey Sand, Brown, Moist, Fine to Medium Grained, No Staining, No Odor	0.0	<p>Well: MW-12 Elev.: TBS</p> <p>Stick-Up Cover</p> <p>Concrete</p> <p>Bentonite Seal</p> <p>1" PVC Casing</p> <p>Sand Pack (20/40)</p> <p>1" PVC 0.010" with Pre-Pack Screen</p>
2						
4		SP		Interbedded Poorly Graded Sand with Silt, Clayey Sand and Silty Sand Lenses 0.5 to 1 foot, Brown, Moist to Dry, No Staining, No Odor	0.0	
6						
8		SP		Sand, Brown to Gray, Moist to Wet at 14 feet, Fine to Medium Grained, Traces of Large Grains Increasing with Depth, No Staining, No Odor	0.0	
10						
12						
14						
16						
18						
20						

11-20-2013 R:\Animas 2000\Dropbox\2013 Projects\Enterprise\Lateral 6C\Soil Boring Logs\MW-12.bor



Animas Environmental Services, LLC.
624 East Comanche Farmington, NM 87401

LOG OF : MW-13

ENTERPRISE FIELD SERVICES, LLC
LATERAL 6C SEPT. 2011 PIPELINE RELEASE
NE1/4 SW1/4 SEC. 26, T28N, R11W
SAN JUAN COUNTY, NEW MEXICO
N36.63202, W107.97400

Date Started : 10/16/13
Date Completed : 10/16/13
Hole Diameter : 2.35 in.
Drilling Method : GeoProbe
Sampling Method : Continuous

Latitude : To Be Surveyed
Longitude : To Be Surveyed
Survey By :
Logged By : H. Woods

Depth in Feet	Surf. Elev.	USCS	GRAPHIC	DESCRIPTION	PID (ppm)	
0				Clayey Sand, Brown, Fine to Medium Grained, No Staining, No Odor		<p>Well: MW-13 Elev.: TBS</p> <p>Stick-Up Cover</p> <p>Concrete</p> <p>Bentonite Seal</p> <p>1" PVC Casing</p> <p>Sand Pack (20/40)</p> <p>1" PVC 0.010" with Pre-Pack Screen</p>
2		SC			0.0	
4						
6					0.0	
8		SP		Poorly Graded Sand with Silt, Brown, Fine to Medium Grained, Moist to Dry, No Staining, No Odor		
10		CL		Lean Clay Lense, Brown, Moist, No Staining, No Odor	0.0	
12		SP		Sand with Silt, Brown, Fine to Medium Grained, Moist to Dry, No Staining, No Odor		
14		SC		Lean Clay Grading to Clayey Sand, Brown, Fine Grained, Moist, No Staining, No Odor	0.0	
16		SP		Poorly Graded Sand, Brown, Moist, Fine to Medium Grained, No Staining, No Odor		
18		SC		Clayey Sand, Brown with Orange Lenses, Fine Grained, Moist to Wet at 18 feet, No Staining, No Odor	0.0	
20		SP		Sand, Brown with 2 to 3 inch Orange and Gray Lenses, Wet, Medium Grained, Slight to No Staining, No Odor		
22						
24						

11-20-2013 R:\Animas 2000\Dropbox\2013 Projects\Enterprise\Lateral 6C\Soil Boring Logs\MW-13.bor



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

October 24, 2013

Ross Kennemer
Animas Environmental
624 East Comanche
Farmington, NM 87401
TEL: (505) 486-1776
FAX (505) 324-2022

RE: Enterprise Lateral 6C

OrderNo.: 1310941

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory received 4 sample(s) on 10/18/2013 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. In order to properly interpret your results it is imperative that you review this report in its entirety. 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. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

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 1310941

Date Reported: 10/24/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: MW-9@13.5'-14'

Project: Enterprise Lateral 6C

Collection Date: 10/16/2013 10:58:00 AM

Lab ID: 1310941-001

Matrix: SOIL

Received Date: 10/18/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	11	10		mg/Kg	1	10/23/2013 9:47:58 AM	9947
Surr: DNOP	99.0	66-131		%REC	1	10/23/2013 9:47:58 AM	9947
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	1.7	0.97		mg/Kg	20	10/23/2013 3:44:19 AM	9929
Toluene	20	0.97		mg/Kg	20	10/23/2013 3:44:19 AM	9929
Ethylbenzene	2.5	0.97		mg/Kg	20	10/23/2013 3:44:19 AM	9929
Xylenes, Total	28	1.9		mg/Kg	20	10/23/2013 3:44:19 AM	9929
Surr: 1,2-Dichloroethane-d4	97.2	70-130		%REC	20	10/23/2013 3:44:19 AM	9929
Surr: 4-Bromofluorobenzene	98.2	70-130		%REC	20	10/23/2013 3:44:19 AM	9929
Surr: Dibromofluoromethane	96.9	70-130		%REC	20	10/23/2013 3:44:19 AM	9929
Surr: Toluene-d8	97.2	70-130		%REC	20	10/23/2013 3:44:19 AM	9929
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	530	97		mg/Kg	20	10/23/2013 3:44:19 AM	9929
Surr: BFB	98.2	70-130		%REC	20	10/23/2013 3:44:19 AM	9929

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	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
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Analytical Report

Lab Order 1310941

Date Reported: 10/24/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: MW-10@13.5'-14'

Project: Enterprise Lateral 6C

Collection Date: 10/16/2013 10:34:00 AM

Lab ID: 1310941-002

Matrix: SOIL

Received Date: 10/18/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/23/2013 10:53:53 AM	9947
Surr: DNOP	101	66-131		%REC	1	10/23/2013 10:53:53 AM	9947
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.047		mg/Kg	1	10/23/2013 4:12:53 AM	9929
Toluene	ND	0.047		mg/Kg	1	10/23/2013 4:12:53 AM	9929
Ethylbenzene	ND	0.047		mg/Kg	1	10/23/2013 4:12:53 AM	9929
Xylenes, Total	ND	0.095		mg/Kg	1	10/23/2013 4:12:53 AM	9929
Surr: 1,2-Dichloroethane-d4	100	70-130		%REC	1	10/23/2013 4:12:53 AM	9929
Surr: 4-Bromofluorobenzene	94.4	70-130		%REC	1	10/23/2013 4:12:53 AM	9929
Surr: Dibromofluoromethane	106	70-130		%REC	1	10/23/2013 4:12:53 AM	9929
Surr: Toluene-d8	88.0	70-130		%REC	1	10/23/2013 4:12:53 AM	9929
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/23/2013 4:12:53 AM	9929
Surr: BFB	94.4	70-130		%REC	1	10/23/2013 4:12:53 AM	9929

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:		
*	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
O	RSD is greater than RSDlimit	P Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	

Analytical Report

Lab Order 1310941

Date Reported: 10/24/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: MW-12^{HV}-11@13.5'-14'

Project: Enterprise Lateral 6C

Collection Date: 10/16/2013 10:00:00 AM

Lab ID: 1310941-003

Matrix: SOIL

Received Date: 10/18/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/23/2013 11:15:54 AM	9947
Surr: DNOP	94.5	66-131		%REC	1	10/23/2013 11:15:54 AM	9947
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.046		mg/Kg	1	10/23/2013 4:41:27 AM	9929
Toluene	ND	0.046		mg/Kg	1	10/23/2013 4:41:27 AM	9929
Ethylbenzene	ND	0.046		mg/Kg	1	10/23/2013 4:41:27 AM	9929
Xylenes, Total	ND	0.093		mg/Kg	1	10/23/2013 4:41:27 AM	9929
Surr: 1,2-Dichloroethane-d4	99.0	70-130		%REC	1	10/23/2013 4:41:27 AM	9929
Surr: 4-Bromofluorobenzene	92.8	70-130		%REC	1	10/23/2013 4:41:27 AM	9929
Surr: Dibromofluoromethane	107	70-130		%REC	1	10/23/2013 4:41:27 AM	9929
Surr: Toluene-d8	89.2	70-130		%REC	1	10/23/2013 4:41:27 AM	9929
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/23/2013 4:41:27 AM	9929
Surr: BFB	92.8	70-130		%REC	1	10/23/2013 4:41:27 AM	9929

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* 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
	O RSD is greater than RSDlimit	P Sample pH greater than 2 for VOA and TOC only.
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S Spike Recovery outside accepted recovery limits	

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: MW-12¹⁵@17.5'-18'

Project: Enterprise Lateral 6C

Collection Date: 10/16/2013 11:25:00 AM

Lab ID: 1310941-004

Matrix: SOIL

Received Date: 10/18/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/23/2013 11:37:55 AM	9947
Surr: DNOP	102	66-131		%REC	1	10/23/2013 11:37:55 AM	9947
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.048		mg/Kg	1	10/23/2013 5:10:00 AM	9929
Toluene	ND	0.048		mg/Kg	1	10/23/2013 5:10:00 AM	9929
Ethylbenzene	ND	0.048		mg/Kg	1	10/23/2013 5:10:00 AM	9929
Xylenes, Total	ND	0.097		mg/Kg	1	10/23/2013 5:10:00 AM	9929
Surr: 1,2-Dichloroethane-d4	93.2	70-130		%REC	1	10/23/2013 5:10:00 AM	9929
Surr: 4-Bromofluorobenzene	95.6	70-130		%REC	1	10/23/2013 5:10:00 AM	9929
Surr: Dibromofluoromethane	102	70-130		%REC	1	10/23/2013 5:10:00 AM	9929
Surr: Toluene-d8	84.2	70-130		%REC	1	10/23/2013 5:10:00 AM	9929
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/23/2013 5:10:00 AM	9929
Surr: BFB	95.6	70-130		%REC	1	10/23/2013 5:10:00 AM	9929

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* 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
	O RSD is greater than RSDlimit	P Sample pH greater than 2 for VOA and TOC only.
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S Spike Recovery outside accepted recovery limits	

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1310941

24-Oct-13

Client: Animas Environmental

Project: Enterprise Lateral 6C

Sample ID	MB-9947	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	9947	RunNo:	14241					
Prep Date:	10/22/2013	Analysis Date:	10/22/2013	SeqNo:	408483	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		95.2	66	131			

Sample ID	LCS-9947	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	9947	RunNo:	14241					
Prep Date:	10/22/2013	Analysis Date:	10/22/2013	SeqNo:	408493	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	95.2	77.1	128			
Surr: DNOP	4.5		5.000		89.6	66	131			

Sample ID	1310941-001AMS	SampType:	MS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	MW-9@13.5'-14'	Batch ID:	9947	RunNo:	14266					
Prep Date:	10/22/2013	Analysis Date:	10/23/2013	SeqNo:	409569	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	56	10	50.00	10.73	91.5	61.3	138			
Surr: DNOP	4.8		5.000		96.8	66	131			

Sample ID	1310941-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	MW-9@13.5'-14'	Batch ID:	9947	RunNo:	14266					
Prep Date:	10/22/2013	Analysis Date:	10/23/2013	SeqNo:	409570	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	59	9.9	49.70	10.73	96.3	61.3	138	3.72	20	
Surr: DNOP	4.7		4.970		95.4	66	131	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- 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
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1310941

24-Oct-13

Client: Animas Environmental

Project: Enterprise Lateral 6C

Sample ID	mb-9929	SampType:	MBLK	TestCode:	EPA Method 8260B: Volatiles Short List					
Client ID:	PBS	Batch ID:	9929	RunNo:	14255					
Prep Date:	10/21/2013	Analysis Date:	10/22/2013	SeqNo:	409097	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: 1,2-Dichloroethane-d4	0.52		0.5000		103	70	130			
Surr: 4-Bromofluorobenzene	0.51		0.5000		102	70	130			
Surr: Dibromofluoromethane	0.56		0.5000		111	70	130			
Surr: Toluene-d8	0.47		0.5000		94.7	70	130			

Sample ID	Ics-9929 b	SampType:	LCS	TestCode:	EPA Method 8260B: Volatiles Short List					
Client ID:	LCSS	Batch ID:	R14255	RunNo:	14255					
Prep Date:		Analysis Date:	10/22/2013	SeqNo:	409098	Units:	%REC			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.52		0.5000		105	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		93.4	70	130			
Surr: Dibromofluoromethane	0.54		0.5000		108	70	130			
Surr: Toluene-d8	0.48		0.5000		95.2	70	130			

Sample ID	mb-9929	SampType:	MBLK	TestCode:	EPA Method 8260B: Volatiles Short List					
Client ID:	PBS	Batch ID:	9929	RunNo:	14255					
Prep Date:	10/21/2013	Analysis Date:	10/22/2013	SeqNo:	409512	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: 1,2-Dichloroethane-d4	0.52		0.5000		103	70	130			
Surr: 4-Bromofluorobenzene	0.51		0.5000		102	70	130			
Surr: Dibromofluoromethane	0.56		0.5000		111	70	130			
Surr: Toluene-d8	0.47		0.5000		94.7	70	130			

Sample ID	LCS-9929	SampType:	LCS	TestCode:	EPA Method 8260B: Volatiles Short List					
Client ID:	LCSS	Batch ID:	9929	RunNo:	14255					
Prep Date:	10/21/2013	Analysis Date:	10/22/2013	SeqNo:	409534	Units:	mg/Kg			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	109	70	130			
Toluene	1.0	0.050	1.000	0	99.8	69.9	139			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- 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
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1310941
 24-Oct-13

Client: Animas Environmental
Project: Enterprise Lateral 6C

Sample ID	LCS-9929	SampType:	LCS	TestCode:	EPA Method 8260B: Volatiles Short List					
Client ID:	LCSS	Batch ID:	9929	RunNo:	14255					
Prep Date:	10/21/2013	Analysis Date:	10/22/2013	SeqNo:	409534	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.52		0.5000		105	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		93.4	70	130			
Surr: Dibromofluoromethane	0.54		0.5000		108	70	130			
Surr: Toluene-d8	0.48		0.5000		95.2	70	130			

Qualifiers:

- | | |
|---|--|
| * 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 |
| O RSD is greater than RSDlimit | P Sample pH greater than 2 for VOA and TOC only. |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S Spike Recovery outside accepted recovery limits | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1310941
24-Oct-13

Client: Animas Environmental
Project: Enterprise Lateral 6C

Sample ID	mb-9929	SampType:	MBLK	TestCode:	EPA Method 8015D Mod: Gasoline Range					
Client ID:	PBS	Batch ID:	9929	RunNo:	14255					
Prep Date:	10/21/2013	Analysis Date:	10/22/2013	SeqNo:	409104	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	510		500.0		102	70	130			

Sample ID	Ics-9929 g	SampType:	LCS	TestCode:	EPA Method 8015D Mod: Gasoline Range					
Client ID:	LCSS	Batch ID:	R14255	RunNo:	14255					
Prep Date:		Analysis Date:	10/22/2013	SeqNo:	409105	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	450		500.0		90.2	70	130			

Sample ID	mb-9929	SampType:	MBLK	TestCode:	EPA Method 8015D Mod: Gasoline Range					
Client ID:	PBS	Batch ID:	9929	RunNo:	14255					
Prep Date:	10/21/2013	Analysis Date:	10/22/2013	SeqNo:	409535	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	510		500.0		102	70	130			

Sample ID	LCS-9929	SampType:	LCS	TestCode:	EPA Method 8015D Mod: Gasoline Range					
Client ID:	LCSS	Batch ID:	9929	RunNo:	14255					
Prep Date:	10/21/2013	Analysis Date:	10/22/2013	SeqNo:	409536	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	94.1	80	120			
Surr: BFB	450		500.0		90.2	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- 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
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Sample Log-In Check List

Client Name: Animas Environmental

Work Order Number: 1310941

RcptNo: 1

Received by/date:	<i>[Signature]</i>	10/18/13
Logged By:	Lindsay Mangin	10/18/2013 10:00:00 AM <i>[Signature]</i>
Completed By:	Lindsay Mangin	10/18/2013 2:48:01 PM <i>[Signature]</i>
Reviewed By:	<i>[Signature]</i>	10/18/13

Chain of Custody

- 1. Custody seals intact on sample bottles? Yes No Not Present
- 2. Is Chain of Custody complete? Yes No Not Present
- 3. How was the sample delivered? Courier

Log In

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

of preserved bottles checked for pH: _____ (<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Special Handling (if applicable)

- 16. 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: _____	

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

Chain-of-Custody Record

Client: Animas Environmental Services

Mailing Address: 624 E. Comanche

Farmington, NM 87401

Phone #: 505-564-2281

email or Fax#:

QA/QC Package:

Standard Level 4 (Full Validation)

Accreditation

NELAP Other

EDD (Type)

Project Manager:

K. Kennemer

Sampler: Hw / SL

Sample Temperature: 10/16/13

Sample Temperature: 10/16/13

Sample Temperature: 10/16/13

Sample Temperature: 10/16/13

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type
10/16/13	1058	Soil	MW-9 @ 13.5'-14'	1-402	-
10/16/13	1034	Soil	MW-10 @ 13.5'-14'	1-402	-
10/16/13	1000	Soil	MW-11 @ 13.5'-14'	1-402	-
10/16/13	1125	Soil	MW-12 @ 17.5'-18'	1-402	-

Date:	Time:	Relinquished by:	Date	Time	Received by:
10/17/13	1647	<u>Heather M. Woods</u>	10/17/13	1647	<u>Christina Woods</u>
10/17/13	1710	<u>Christina Woods</u>	10/18/13	1000	<u>Christina Woods</u>



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

BTEX + MTBE + TPAH's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / PRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Pesticides / PCB's
X	X	X									
X	X	X									
X	X	X									
X	X	X									

Remarks:

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.

**DEPTH TO GROUNDWATER
MEASUREMENT FORM**

Animas Environmental Services

624 E. Comanche, Farmington NM 87401

Tel. (505) 564-2281 Fax (505) 324-2022

Project: Groundwater Monitor Well Development
 Site: Enterprise
 Location: Lateral 6C
 Tech: Lavina Lamone

Project No.:
 Date: 11/06/13
 Time: 0850
 Form:

Well I.D.	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
PMW 10	15.08 15.08	15.08	0	20.84 TDW 1" well
PMW 11		15.30	0	20.84 TDW 1" well
PMW 12		15.68	0	21.19 TDW 1" well
PMW 13		20.00	0	24.84 TDW 1" well
PMW-10				15.45 after 5 gal. purged to clear water after Well has been agitated 4 times. Peristaltic pump ran for 1.75 hr. H ₂ O muddy @ 1-3 gal. 3-4 l. to tan 4-6 clear.
PMW-11				15.64 TDW @ 1230. Purged 6.5 H ₂ O H ₂ O clear @ 6.5 purged. Agitated well 5X to assured all "mud" sediments atop well. Pump ran for 2.0 hrs
PMW-12				15.73 @ 1230 upon arrived to development 15.68 @ initial gauge Agitated entire time. 1 gal. dark brown sediments 2-3 gal. brown H ₂ O 3-4 gal. l. to tan 5-5.5 gal. clear. 15.95 @ 1425 after purge 5.5 gal

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

**GROUNDWATER MONITORING WELL
DEVELOPMENT FORM**

Animas Environmental Services

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

Project: Enterprise
Site: Lateral 6C
Location: _____
Tech: Lavina Lamone

Project No.: _____
Date: 11/06/13
Time: 0750
Form: _____

Well ID	Depth to NAPL (ft.)	Depth to Water (ft.)	Purged Volume (gal.)	Method / Notes / Observations
PMW-10		15.08	5 gal.	H2o muddy first 2 gals. Lt tan @ 3 gals. Aggitated Well... Clear @ 4.5 gal.
PMW-11		¹²³⁰ 15.64	6.5	H2o muddy first 3 gal. last 3 gals. aggitated 5X. Clean @ 6.5 gal.
PMW-12		¹⁴²⁵ 15.85	5.5	H2o aggitated entire time while being pumped First gal. Sediment Dark Brown H2o.
PMW-13		⁰⁹⁰⁰ 20.10	4.0 gal.	H2o dark Brown @ 1-2 gal. Aggitated entire 3 gals of pumping. Clear @ 4.0 gal.

Purged Water Storage, Transport, and Disposal Information: 55 gallon drum transported to Envirotech Landfarm for disposal.



Bill of Lading

MANIFEST # 44709
 DATE 9-18-13 JOB # 97057-0590

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLs	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	Enterprise Lat 6C	BFLM	liquid			1	AES.	08 Diesel 143		[Signature]
						1				
RESULTS:		LANDFARM EMPLOYEE: <i>Gayle Linco</i>				NOTES:				
292	CHLORIDE TEST	1	Certification of above receipt & placement							
	PAINT FILTER TEST	1								

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

TRANSPORTER CO. *Animas Environmental*
 COMPANY CONTACT *Ross Kennemer*

NAME *LAVINA LAMONE*
 PHONE

SIGNATURE *[Signature]*
 DATE *9-18-13*

Signatures required prior to distribution of the legal document.



Bill of Lading

MANIFEST # 45088DATE 11-6-13 JOB # 97057-0590

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY				
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE	
7	ENTERPRISE LATOC	BF	CONT WATER		-	2	AES	Chevy diesel	14:55		
RESULTS:		LANDFARM EMPLOYEE:					NOTES:				
288	CHLORIDE TEST	1									
	PAINT FILTER TEST	1	Certification of above receipt & placement								

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

TRANSPORTER CO. Animas Environmental Services NAME LAVINA LAWSON SIGNATURE

COMPANY CONTACT HEATHER WOODS PHONE 505-564-2281 DATE 11/6/2013

Signatures required prior to distribution of the legal document.