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2014 AGWMMR

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ENTERPRISE PRODUCTS PARTNERS L.P.
ENTERPRISE PRODUCTS HOLDINGS LLC
(General Partner)

ENTERPRISE PRODUCTS OPERATING LLC

May 28, 2015

Submitted via email to the NMOCD FTP website

Mr. Jim Griswold, Environmental Bureau Chief
New Mexico Energy, Minerals & Natural Resources
Department - Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Attn: Glenn Von Gonten

**Re: 1st and 3rd Quarter 2014 Groundwater Monitoring Report
Enterprise Field Services, LLC
Trunk 6C (10/29/13) Release Site (Formerly Lateral 6C)
NMOCD Order Number: 3RP-438-0
NE¼ SW¼, Section 26, T28N, R11W
San Juan County, New Mexico**

Dear Mr. Griswold:

Enterprise Field Services, LLC (Enterprise) is submitting the attached report entitled: 1st and 3rd Quarter 2014, Groundwater Monitoring Report for the Trunk 6C (10/29/13) Release Site, and dated January 13, 2015. This report documents the results of the seventh consecutive quarterly groundwater monitoring and sampling event conducted at the above-referenced release site during March 2014, and the subsequent semi-annual sampling event in September 2014.

During the first quarter 2014 sampling event, a total of twelve (12) monitor wells (MW-2 through MW-13) and two hydro-punch temporary wells were sampled for dissolved-phase constituents. One (1) monitor well (MW-1) contained measurable accumulations of non-aqueous phase liquid (NAPL), and was not sampled. During the third quarter sampling event, a total of twelve (12) monitor wells (MW1 through MW-7 and MW-9 through MW-13) were sampled for dissolved-phase constituents. Two (2) monitor wells (MW-1 and MW-8) contained measurable accumulations of non-aqueous phase liquid (NAPL). MW-1 (0.01 foot NAPL) was sampled but MW-8 (0.13 foot) was not sampled. Due to the presence of benzene concentrations in downgradient monitor well MW-10 and the presence of free product in MW-8, additional downgradient monitor wells will be installed to complete delineation of the dissolved-phase groundwater plume.

Enterprise is evaluating remedial alternatives for the site, including air sparging (AS), soil vapor extraction (SVE) and Multi Phase Extraction (MPE). A pilot test may be conducted to aid in the design and implementation of a remediation system at this location.

If you have any questions concerning the attached report, please do not hesitate to contact me at (713) 381-8780, or via email at: gemiller@eprod.com.

Mr. Jim Griswold – NM Energy, Minerals & Natural Resources Dept.

May 28, 2015

Page Two

Sincerely,



Gregory E. Miller, P.G.
Supervisor, Environmental



Rodney M. Sartor, REM
Director, Environmental

/dep

Attachment

ec: Glenn Von Gonten, New Mexico Oil Conservation Division, Santa Fe, NM
Mark Kelly, Bureau of Land Management, Farmington, NM
Shari Ketcham, Bureau of Land Management, Farmington, NM
Brandon Powell, New Mexico Oil Conservation Division, Aztec, NM
Jonathan Kelly, New Mexico Oil Conservation Division, Aztec, NM
Elizabeth McNally, Animas Environmental Services, Farmington, NM
Tom Long, Enterprise



January 13, 2015

Greg Miller
Enterprise Products Operating, LLC
P.O. Box 4324
13th Floor, Remediation Group
Houston, Texas 77210-4324

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

**RE: 1st and 3rd Quarter 2014
Groundwater Monitoring Report
Enterprise Field Services, LLC
Trunk 6C September 2011 and October 2013 Pipeline Release (Former Lateral 6C)
NMOCD Order Number: 3RP-438-0
NE $\frac{1}{4}$ SW $\frac{1}{4}$, Section 26, T28N, R11W
San Juan County, New Mexico**

Dear Mr. Miller:

Animas Environmental Services, LLC (AES), on behalf of Enterprise Field Services, LLC (Enterprise), has prepared this *1st and 3rd Quarter 2014 Groundwater Monitoring Report* for the Trunk 6C September 2011 and October 2013 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 seventh consecutive quarterly monitoring and sampling event for the subject release location in March 2014 and subsequent semi-annual sampling event in September 2014.

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 NE $\frac{1}{4}$ SW $\frac{1}{4}$, Section 26, T28N, R11W, San Juan County, New Mexico. Latitude and longitude of the release are 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 locations (September 2011 and October 2013) is included as Figure 2.

604 W. Piñon St.
Farmington, NM 87401
505-564-2281

1911 Main, Ste 280
Durango, CO
970-403-3084

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)

The ranking score 40 dictates that concentrations for impacted soils left in place must be below the NMOCD action levels of 10 mg/kg benzene, 50 mg/kg total benzene, toluene, ethylbenzene, and xylenes (BTEX), and 100 mg/kg total petroleum hydrocarbons (TPH) as gasoline range organics (GRO) and diesel range organics (DRO).

1.2 Initial Release (2011) 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 pipeline 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 holes excavated 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 BTEX and TPH (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 (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

In August and September 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 each advanced to depths 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 below NMOCD action levels in all 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 Quarterly Groundwater Monitoring and Sampling – December 2012 through December 2013

Site monitor wells were monitored and sampled by AES on:

- December 20, 2012 (*Quarterly Groundwater Sampling Report, February 13, 2013*);
- March 20, 2013 (*Quarterly Groundwater Sampling Report, May 13, 2013*)
- June 19, 2013 (*Quarterly Groundwater Sampling Report, August 26, 2013*)
- September 17 and 18, 2013, with installation of four additional monitor wells on October 16, 2013 (*Quarterly Groundwater Monitoring and Well Installation Report, December 10, 2013*)
- December 16, 2013 (*Groundwater Monitoring and Continued Investigation Report, July 23, 2014*)

1.3 October 2013 Pipeline Release Assessment

A release of an unknown volume of natural gas and pipeline liquids was discovered on October 28, 2013, in approximately the same location as the September 2011 release location. The pipeline was removed from service, and an initial excavation for pipeline repair access was completed.

On November 1, 2013, an initial assessment and excavation were completed. Following pipeline repair activities, AES returned to the location on December 17, 2013. Field screening activities included the collection of 20 discrete soil samples (S-1 through S-20) from the walls and base of the excavation. The excavation was limited to the northwest and northeast by additional pipeline crossings. The area of the final excavation measured approximately 1,600 square feet by 15 feet in depth. The pipeline segment had been filled with inert nitrogen gas and removed from service. Contaminated soils were transported to Envirotech Landfarm, and the excavation was backfilled with clean, imported material.

On December 17, 2013, final excavation field screening results for VOCs via OVM ranged from 10.5 ppm in S-14 up to 4,230 ppm in S-3. Laboratory analytical results from the final excavation showed that benzene concentrations ranged from below laboratory detection limits for all the samples, except S-2 (66 mg/kg), S-3 (21 mg/kg), and S-10 (0.63mg/kg). Total BTEX concentrations ranged from below laboratory detection limits in S-11 and S-17 up to 1,330 mg/kg in S-2. TPH concentrations ranged from below laboratory detection limits in S-11, S-17, and S-18, up to 15,320 mg/kg in S-2.

1.4 Aquifer Testing – December 2013

Short term steady-state pumping tests were conducted in December 2013 in four wells (MW-6 through MW-9) to estimate localized hydraulic conductivity using drawdown and recovery analysis. The average hydraulic conductivity estimate using drawdown analysis was 5.27E-03 cm/sec and using recovery analysis was 8.81E-03 cm/sec. The low end of the estimated range of average linear velocity is consistent with the distance the plume has migrated since the September 2011 release.

2.0 Groundwater Monitoring and Sampling – March 2014

On March 14, 2014, groundwater monitoring and sampling were conducted by AES in monitoring wells MW-1 through MW-13 and temporary wells TW-1 and TW-2. 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.

The temporary wells (TW-1 and TW-2) were installed by hydro-punch method to the north (TW-2) and northwest (TW-1) of MW-10 to delineate the lateral extent of the contaminant plume. The groundwater samples were collected with a peristaltic pump and the hydro-punch screens were pulled immediately after sampling. The approximate location of the temporary hydro-punch wells are shown on Figure 4.

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 fifth consecutive quarter in MW-1 (0.01 feet); however, NAPL was no longer observed in MW-2. Groundwater elevations increased by an average of 0.39 feet across the site, and depths to groundwater were observed to range from 14.53 feet below top of casing (TOC) in MW-8 to 19.63 feet below TOC in MW-13. The groundwater gradient was calculated to be approximately 0.007 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 12.79°C in MW-11 up to 17.00°C in MW-13, and conductivity ranged from 2.218 mS in MW-9 to 5.045 mS in MW-10. Dissolved oxygen concentrations were between 0.53 mg/L in MW-10 and 2.51 in MW-5, and pH ranged from 7.08 in MW-3 to 7.56 in MW-9. Depth to groundwater measurements and water quality data are summarized in Table 1, and Water Sample Collection forms are presented in Appendix A.

2.2 Groundwater Laboratory Analyses

Groundwater samples were collected using low flow purging technique with a peristaltic pump from a total of 12 monitor wells and 2 temporary wells, 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 ALS Environmental (ALS) in Houston, Texas. All groundwater analytical samples were analyzed for BTEX per USEPA Method 8021B.

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-2 (1,200 µg/L), MW-3 (200 µg/L), MW-8 (66 µg/L) and MW-10 (560 µg/L). Dissolved phase toluene concentrations were above the WQCC standard of 750 µg/L in MW-2 with 1,600 µg/L. Dissolved phase xylene concentrations exceeded the WQCC standard of 620 µg /L in MW-2 with 660 µg/L and MW-6 at 990 µg/L. Dissolved phase ethylbenzene concentrations were below the WQCC standard of 750 µg/L in all wells sampled. Additionally, the analytical results for the temporary wells (TW-1 and TW-2) were below laboratory detection levels for BTEX.

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 the Appendix B.

3.0 Groundwater Monitoring and Sampling – September 2014

On September 9, 2014, groundwater monitoring and sampling were conducted by AES in MW-1 through MW-13, and samples were collected from MW-1 through MW-7 and MW-9 through MW-13 for laboratory analyses. Work was completed in accordance with the workplan prepared by AES and dated August 3, 2012, and also in accordance with USEPA Environmental Response Team's SOPs and applicable ASTM standards.

3.1 *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, DO, and ORP. Depth to groundwater measurements and water quality data were recorded onto Water Sample Collection forms. During this sampling event, NAPL was observed in MW-1 (0.01 feet) and in MW-8 (0.13 feet). Groundwater elevations decreased by an average of 0.69 feet across the site since the March 2014 sampling event, and depths to groundwater were observed to range from 15.25 feet below top of casing (TOC) in MW-8 to 20.18 feet below TOC in MW-13. The groundwater gradient was calculated to be approximately 0.009 foot/foot to the northwest. Groundwater gradient contours are included on Figure 7.

Following depth to water measurement, each well was purged with a new disposable bailer until recorded temperature, pH, conductivity, and DO measurements were stabilized. All data was recorded onto Water Sample Collection Forms. Groundwater temperature ranged from 14.59°C in MW-9 and MW-11 to 17.55°C in MW-1, and conductivity ranged from 2.009 mS in MW-9 to 3.363 mS in MW-10. Dissolved oxygen concentrations were between 1.17 mg/L in MW-1 and 5.16 in MW-10, and pH ranged from 9.00 in MW-9 to 9.57 in MW-7. Depth to groundwater measurements and water quality data are summarized in Table 1, and Water Sample Collection forms are presented in Appendix A.

3.2 *Groundwater Laboratory Analyses*

Groundwater samples were collected using new disposable bailers from a total of 12 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 8021B.

3.2.1 Groundwater Analytical Results

Groundwater laboratory analytical results showed that dissolved phase benzene concentrations were above the WQCC standard of 10 µg /L in MW-1 (1,900 µg/L), MW-2 (78 µg/L), and MW-10 (580 µg/L). Dissolved phase toluene, ethylbenzene, and xylene concentrations were below applicable WQCC standards in all wells sampled. Tabulated groundwater analytical results are presented in Table 2 and on Figure 8, and dissolved phase benzene and xylene contours are presented on Figures 9 and 10, respectively. Groundwater laboratory analytical reports are presented in Appendix B.

4.0 Conclusions and Recommendations

On March 14, 2014, a total of 13 monitor wells (MW-1 through MW-13) and two temporary wells (TW-1 and TW-2) were monitored and sampled at the Trunk 6C (formerly Lateral 6C) September 2011 pipeline release location by AES. Note that during this sampling event, NAPL was observed for the fifth consecutive quarter in MW-1 (0.01 feet) but was no longer observed in MW-2.

For the March 2014 sampling event, groundwater in MW-2 (which previously showed NAPL) exceeded the WQCC standard for benzene (1,200 µg/L), toluene (1,600 µg/L), and xylenes (660 µg/L). Laboratory results confirmed dissolved phase benzene concentrations above the WQCC standard in three additional wells, including MW-3 (200 µg/L), MW-8 (66 µg/L), and MW-10 (560 µg/L). Note that benzene concentrations no longer exceeded the WQCC standard of 10 µg/L in MW-4 (4.0 µg/L). With the exception of MW-2, no other wells sampled were above WQCC standards for toluene, and none of the wells sampled were above the WQCC standard for ethylbenzene. Dissolved phase xylene concentrations were above the WQCC standard of 620 µg /L in MW-6 with 990 µg/L. Low benzene concentrations and high xylene concentrations in MW-6 may be indicative of weathering or partially degraded petroleum hydrocarbons.

Site monitor wells were again sampled by AES on September 9, 2014. A very small amount (0.01 ft) of NAPL was measured in MW-1 and was observed for the first time in MW-8 (0.13 feet). Groundwater exceeded the WQCC standard for benzene in MW-1 (1,900 µg/L), MW-2 (78 µg/L), and MW-10 (580 µg/L). Otherwise, laboratory results confirmed dissolved phase toluene, ethylbenzene, and xylene concentrations were below applicable WQCC standards in all wells sampled.

Based on the laboratory analytical results of groundwater samples collected in March and September 2014, groundwater continues to be impacted above applicable WQCC standards. AES recommends:

- Continued monitoring and sampling of site monitor wells on a semi-annual basis;

- Drilling and installation of three monitoring wells downgradient of MW-8 (0.13 feet NAPL) and MW-10 (580 µg/L benzene) to further delineate the downgradient extent of the contaminant plume; and
- Completion of an air sparge (AS) and soil vapor extraction (SVE) pilot test and a multi-phase extraction (MPE) pilot test to aid in the design and implementation of a mechanical remediation system at the location. Note that a workplan detailing the AS/SVE and the MPE pilot study has already been submitted under separate cover.

The next sampling event is tentatively scheduled for March 2015. The remedial pilot studies will be scheduled once access agreements with BLM are in place.

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

Sincerely,



Brent Everett
Senior Hydrogeologist/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

Figures

- Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Map
Figure 3. Groundwater Elevation Contours, March 2014
Figure 4. Groundwater Contaminant Concentrations, March 2014
Figure 5. Dissolved Benzene Concentration Contours, March 2014
Figure 6. Dissolved Xylene Concentration Contours, March 2014
Figure 7. Groundwater Elevation Contours, September 2014

- Figure 8. Groundwater Contaminant Concentrations, September 2014
Figure 9. Dissolved Benzene Concentration Contours, September 2014
Figure 10. Dissolved Xylene Concentration Contours, September 2014

Appendices

- Appendix A. Water Sample Collection Forms
Appendix B. Groundwater Analytical Reports (ALS 14030737 and Hall 1409436)

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Projects\Enterprise\Trunk 6C\Reports and Workplans\Enterprise Trunk 6C 1st and 3rd 2014 QMR 011315
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Attachments

Tables

TABLE 1. SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
 Enterprise Field Services, LLC Trunk 6C September 2011 and October 2013 Pipeline Release
 San Juan County, New Mexico

<i>Well ID</i>	<i>Date</i>	<i>Surveyed TOC (ft)</i>	<i>Depth to NAPL (ft below TOC)</i>	<i>Depth to Water (ft below TOC)</i>	<i>NAPL Thickness (ft)</i>	<i>GW Elev. (ft amsl)</i>	<i>Corrected GW Elev. (ft)</i>	<i>pH</i>	<i>Conductivity (mS)</i>	<i>Dissolved Oxygen (mg/L)</i>	<i>Temp. (°C)</i>
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-1	16-Dec-13	5579.73	15.59	15.75	0.16	5563.98	5564.09	NA	NA	NA	NA
MW-1	14-Mar-14	5579.73	15.35	15.36	0.01	5564.37	5564.38	NA	NA	NA	NA
MW-1	09-Sep-14	5579.73	15.98	15.99	0.01	5563.74	5563.75	9.16	2.592	1.17	17.55
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-2	16-Dec-13	5579.39	16.14	16.22	0.08	5563.17	5563.23	NA	NA	NA	NA
MW-2	14-Mar-14	5579.39		15.89		5563.50		7.39	3.624	2.62	15.00
MW-2	09-Sep-14	5579.39		16.50		5562.89		9.35	2.364	3.52	17.17
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-3	16-Dec-13	5579.52		15.70		5563.82		7.20	9.241	NA	17.54
MW-3	14-Mar-14	5579.52		15.39		5564.13		7.08	3.523	NA	14.23
MW-3	09-Sep-14	5579.52		16.10		5563.42		9.08	2.748	2.92	15.52

TABLE 1. SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
 Enterprise Field Services, LLC Trunk 6C September 2011 and October 2013 Pipeline Release
 San Juan County, New Mexico

<i>Well ID</i>	<i>Date</i>	<i>Surveyed TOC (ft)</i>	<i>Depth to NAPL (ft below TOC)</i>	<i>Depth to Water (ft below TOC)</i>	<i>NAPL Thickness (ft)</i>	<i>GW Elev. (ft amsl)</i>	<i>Corrected GW Elev. (ft)</i>	<i>pH</i>	<i>Conductivity (mS)</i>	<i>Dissolved Oxygen (mg/L)</i>	<i>Temp. (°C)</i>
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-4	16-Dec-13	5580.36		15.45		5564.91		7.16	7.659	NA	17.75
MW-4	14-Mar-14	5580.36		15.14		5565.22		7.15	3.736	1.42	14.22
MW-4	09-Sep-14	5580.36		15.80		5564.56		9.28	2.602	3.68	16.07
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
MW-5	16-Dec-13	5583.53		19.28		5564.25		7.44	6.793	NA	16.73
MW-5	14-Mar-14	5583.53		19.03		5564.50		7.45	3.540	2.51	13.67
MW-5	09-Sep-14	5583.53		19.58		5563.95		9.13	2.299	5.01	14.69
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-6	16-Dec-13	5582.22		18.46		5563.76		7.39	7.232	NA	16.61
MW-6	14-Mar-14	5582.22		18.21		5564.01		7.18	3.756	NA	14.66

1st and 3rd Quarter 2014
 Groundwater Monitoring Report
 January 13, 2015

TABLE 1. SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
 Enterprise Field Services, LLC Trunk 6C September 2011 and October 2013 Pipeline Release
 San Juan County, New Mexico

<i>Well ID</i>	<i>Date</i>	<i>Surveyed TOC (ft)</i>	<i>Depth to NAPL (ft below TOC)</i>	<i>Depth to Water (ft below TOC)</i>	<i>NAPL Thickness (ft)</i>	<i>GW Elev. (ft amsl)</i>	<i>Corrected GW Elev. (ft)</i>	<i>pH</i>	<i>Conductivity (mS)</i>	<i>Dissolved Oxygen (mg/L)</i>	<i>Temp. (°C)</i>
MW-6	09-Sep-14	5582.22		18.75		5563.47		9.18	2.099	1.83	15.32
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-7	16-Dec-13	5582.24		18.46		5563.78		7.62	7.584	NA	16.85
MW-7	14-Mar-14	5582.24		18.73		5563.51		7.42	3.914	1.44	14.24
MW-7	09-Sep-14	5582.24		19.24		5563.00		9.57	2.271	3.89	14.91
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-8	16-Dec-13	5577.81		14.81		5563.00		7.21	6.931	2.46	17.44
MW-8	14-Mar-14	5577.81		14.53		5563.28		7.47	3.563	1.35	15.03
MW-8	09-Sep-14	5577.81	15.12	15.25	0.13	5562.56	5562.65	NA	NA	NA	NA
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
MW-9	16-Dec-13	5582.48		17.48		5565.00		7.49	6.786	NA	15.47

TABLE 1. SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
 Enterprise Field Services, LLC Trunk 6C September 2011 and October 2013 Pipeline Release
 San Juan County, New Mexico

<i>Well ID</i>	<i>Date</i>	<i>Surveyed TOC (ft)</i>	<i>Depth to NAPL (ft below TOC)</i>	<i>Depth to Water (ft below TOC)</i>	<i>NAPL Thickness (ft)</i>	<i>GW Elev. (ft amsl)</i>	<i>Corrected GW Elev. (ft)</i>	<i>pH</i>	<i>Conductivity (mS)</i>	<i>Dissolved Oxygen (mg/L)</i>	<i>Temp. (°C)</i>
MW-9	14-Mar-14	5582.48		17.21		5565.27		7.56	2.218	1.64	13.82
MW-9	09-Sep-14	5582.48		17.83		5564.65		9.00	2.009	4.81	14.59
MW-10	16-Dec-13	5577.80		16.93		5560.87		7.62	10.140	0.31	13.85
MW-10	14-Mar-14	5577.80		14.63		5563.17		7.32	5.045	0.53	14.54
MW-10	09-Sep-14	5577.80		15.34		5562.46		9.49	3.363	5.16	15.79
MW-11	16-Dec-13	5578.65		15.15		5563.50		7.65	8.945	0.65	13.21
MW-11	14-Mar-14	5578.65		14.82		5563.83		7.40	4.591	1.35	12.79
MW-11	09-Sep-14	5578.65		15.63		5563.02		9.42	2.043	2.51	14.59
MW-12	16-Dec-13	5579.99		15.54		5564.45		7.64	6.782	0.67	13.90
MW-12	14-Mar-14	5579.99		15.27		5564.72		7.52	3.500	0.98	13.19
MW-12	09-Sep-14	5579.99		15.96		5564.03		9.52	2.129	2.40	16.27
MW-13	16-Dec-13	5583.03		19.88		5563.15		7.45	6.731	0.78	14.52
MW-13	14-Mar-14	5583.03		19.63		5563.40		7.31	3.436	2.41	17.00
MW-13	09-Sep-14	5583.03		20.18		5562.85		9.40	2.281	4.76	15.32

Notes: NA - not analyzed

TABLE 2. SUMMARY OF GROUNDWATER LABORATORY ANALYTICALS RESULTS
 Enterprise Field Services, LLC Trunk 6C September 2011 and October 2013 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
<i>Sample Method</i>		<i>EPA Method 8260</i>				<i>SM2540C</i>
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-1	16-Dec-13	Free Product Present (0.16 feet)				NA
MW-1	14-Mar-14	Free Product Present (0.01 feet)				NA
MW-1	09-Sep-14	1,900	440	54	400	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-2	16-Dec-13	Free Product Present (0.06 feet)				NA
MW-2	14-Mar-14	1,200	1,600	74	660	NA
MW-2	09-Sep-14	78	76	2.9	110	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-3	16-Dec-13	660	340	16	130	NA
MW-3	14-Mar-14	200	86	4.0	49	NA
MW-3	09-Sep-14	2.5	1.7	<1.0	3.3	NA
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-4	16-Dec-13	300	110	10	63	NA
MW-4	14-Mar-14	4.0	<1.0	<1.0	<3.0	NA
MW-4	09-Sep-14	<2.0	<2.0	<2.0	<4.0	NA

TABLE 2. SUMMARY OF GROUNDWATER LABORATORY ANALYTICALS RESULTS
 Enterprise Field Services, LLC Trunk 6C September 2011 and October 2013 Pipeline Release
 San Juan County, New Mexico

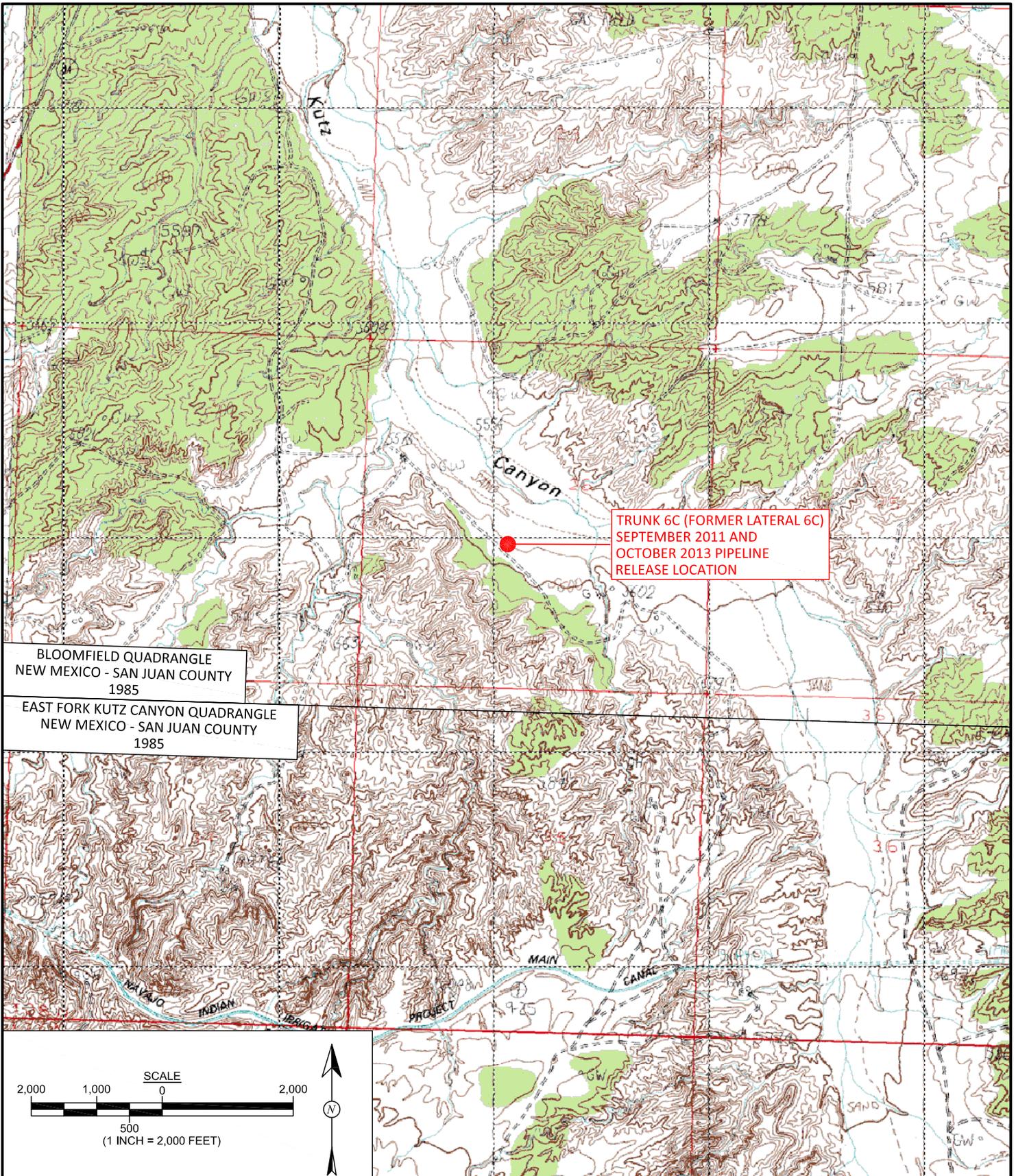
Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Xylenes	Total Dissolved Solids
		µg/L	µg/L	µg/L	µg/L	mg/L
Sample Method		EPA Method 8260				SM2540C
WQCC STANDARD		10	750	750	620	--
MW-5	07-Sep-12	<2.0	<2.0	<2.0	<4.0	NA
MW-5	20-Dec-12	<2.0	<2.0	<2.0	<4.0	NA
MW-5	20-Mar-13	<2.0	<2.0	<2.0	<4.0	NA
MW-5	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-5	16-Dec-13	2.1	4.7	4.0	17	NA
MW-5	14-Mar-14	<1.0	<1.0	<1.0	<3.0	NA
MW-5	09-Sep-14	<1.0	<1.0	<1.0	<2.0	NA
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
MW-6	16-Dec-13	<5.0	<5.0	140	990	NA
MW-6	14-Mar-14	<1.0	<1.0	150	990	NA
MW-6	09-Sep-14	<5.0	<5.0	49	400	NA
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-7	16-Dec-13	1.6	3.9	3.6	16	NA
MW-7	14-Mar-14	<1.0	<1.0	<1.0	<3.0	NA
MW-7	09-Sep-14	<1.0	<1.0	<1.0	<2.0	NA
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-8	16-Dec-13	18	21	5.1	74	NA
MW-8	14-Mar-14	66	190	10	210	NA
MW-8	09-Sep-14	Free Product Present (0.13 feet)				NA

TABLE 2. SUMMARY OF GROUNDWATER LABORATORY ANALYTICALS RESULTS
 Enterprise Field Services, LLC Trunk 6C September 2011 and October 2013 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-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
MW-9	16-Dec-13	1.5	3.5	2.9	12	NA
MW-9	14-Mar-14	<1.0	<1.0	<1.0	<3.0	NA
MW-9	09-Sep-14	<2.0	<2.0	<2.0	<4.0	NA
MW-10	16-Dec-13	950	34	12	39	NA
MW-10	14-Mar-14	560	4.0	16	27	NA
MW-10	09-Sep-14	580	<10	34	<20	NA
MW-11	16-Dec-13	2.6	3.5	<1.0	6	NA
MW-11	14-Mar-14	<1.0	<1.0	<1.0	<3.0	NA
MW-11	09-Sep-14	<2.0	<2.0	<2.0	<4.0	NA
MW-12	16-Dec-13	3.3	3.8	<1.0	6	NA
MW-12	14-Mar-14	<1.0	<1.0	<1.0	<3.0	NA
MW-12	09-Sep-14	<2.0	<2.0	<2.0	<4.0	NA
MW-13	16-Dec-13	4.4	5.1	1.2	8	NA
MW-13	14-Mar-14	<1.0	<1.0	<1.0	<3.0	NA
MW-13	09-Sep-14	<2.0	<2.0	<2.0	<4.0	NA
TW-1	14-Mar-14	<1.0	<1.0	<1.0	<3.0	NA
TW-2	14-Mar-14	<1.0	<1.0	<1.0	<3.0	NA

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

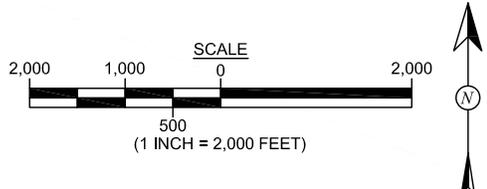
Figures



TRUNK 6C (FORMER LATERAL 6C)
 SEPTEMBER 2011 AND
 OCTOBER 2013 PIPELINE
 RELEASE LOCATION

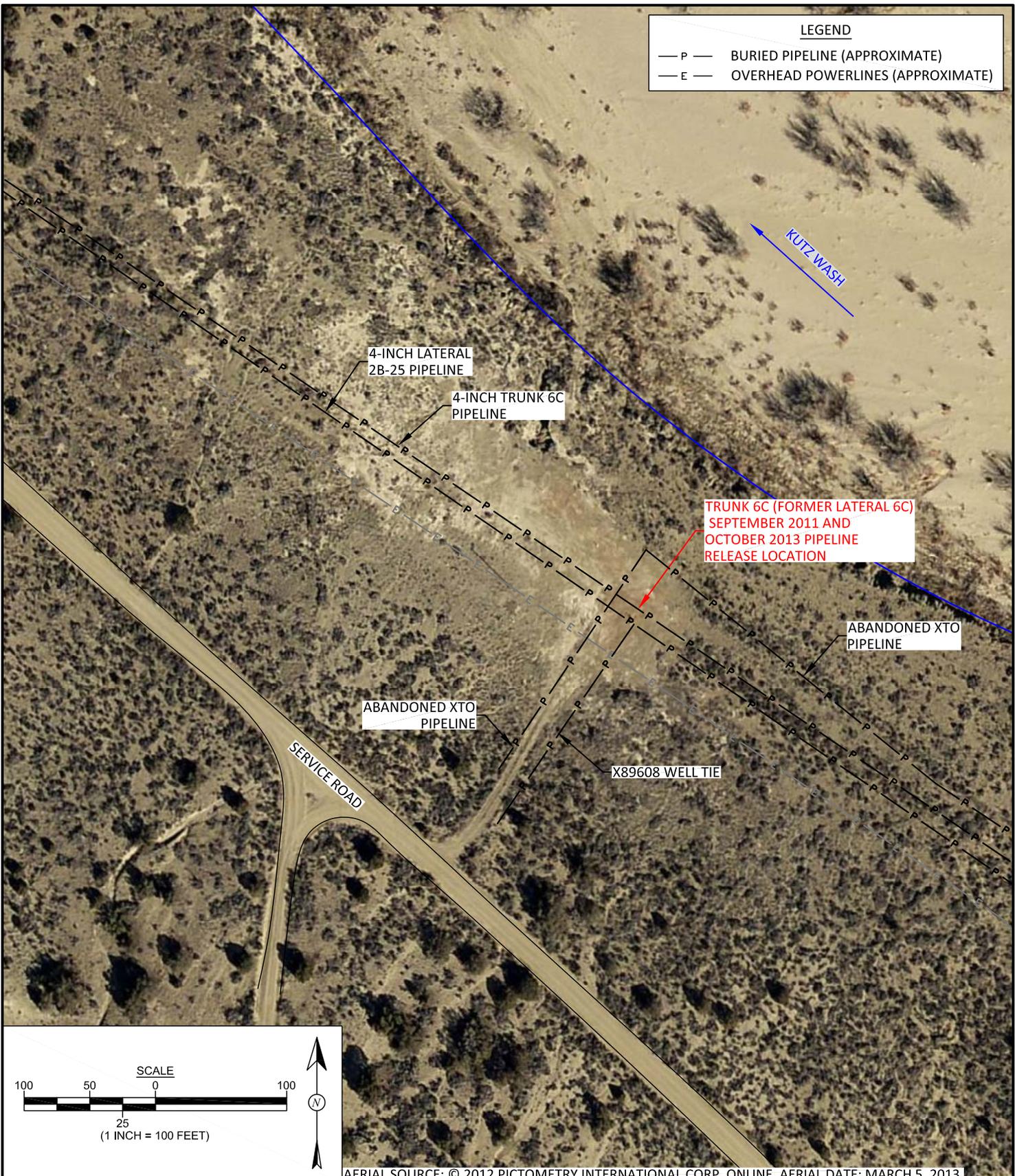
BLOOMFIELD QUADRANGLE
 NEW MEXICO - SAN JUAN COUNTY
 1985

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



DRAWN BY: C. Lameman	DATE DRAWN: September 18, 2012
REVISIONS BY: C. Lameman	DATE REVISED: September 25, 2014
CHECKED BY: B. Everett	DATE CHECKED: September 25, 2014
APPROVED BY: E. McNally	DATE APPROVED: September 25, 2014

FIGURE 1
TOPOGRAPHIC SITE LOCATION MAP
 ENTERPRISE FIELD SERVICES, LLC
 TRUNK 6C (FORMER LATERAL 6C)
 SEPTEMBER 2011 AND
 OCTOBER 2013 PIPELINE RELEASE
 SAN JUAN COUNTY, NEW MEXICO
 NE¼ SW¼, SECTION 26, T28N, R11W
 N36.63202, W107.97400

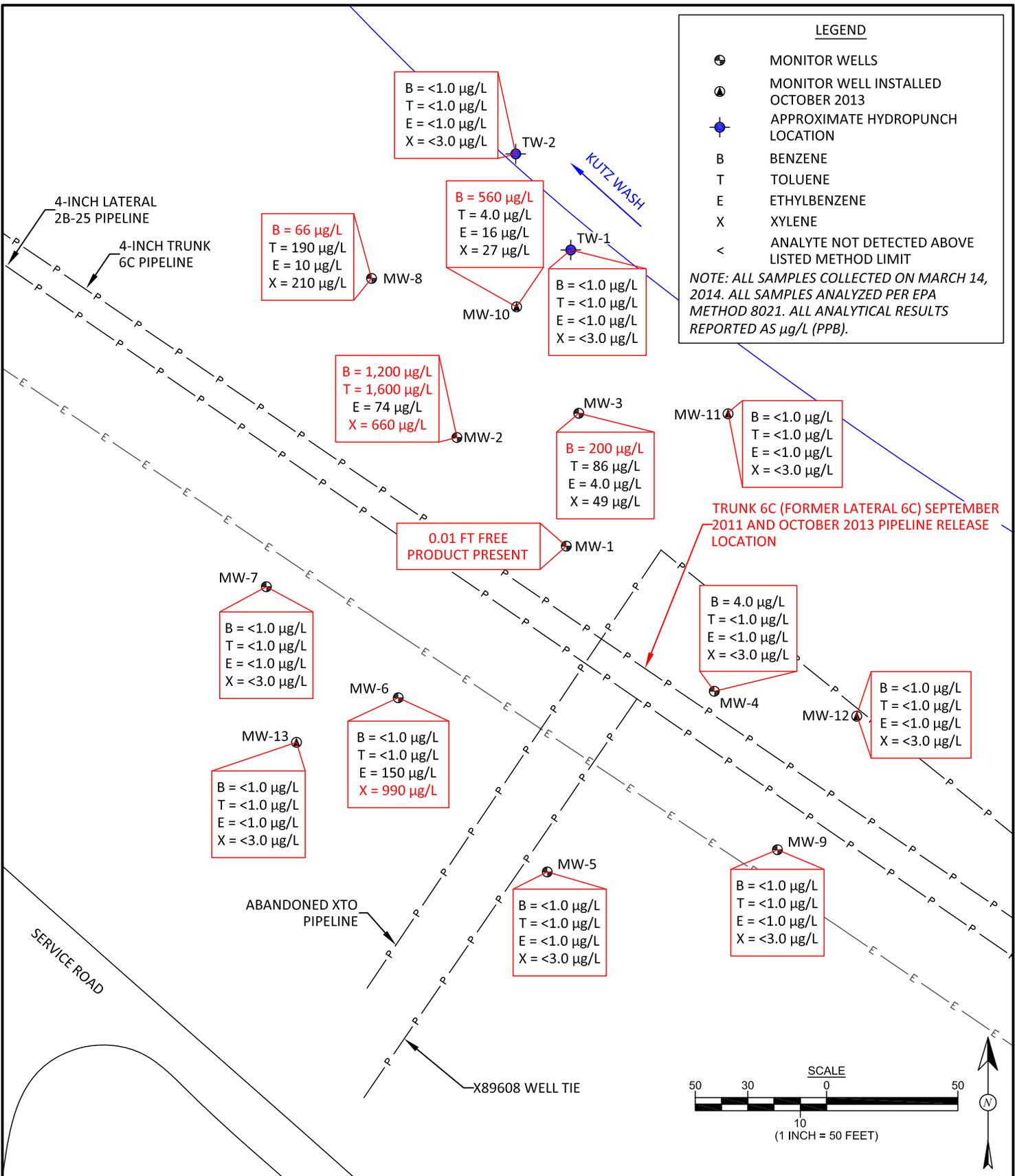


AERIAL SOURCE: © 2012 PICTOMETRY INTERNATIONAL CORP. ONLINE, AERIAL DATE: MARCH 5, 2013.



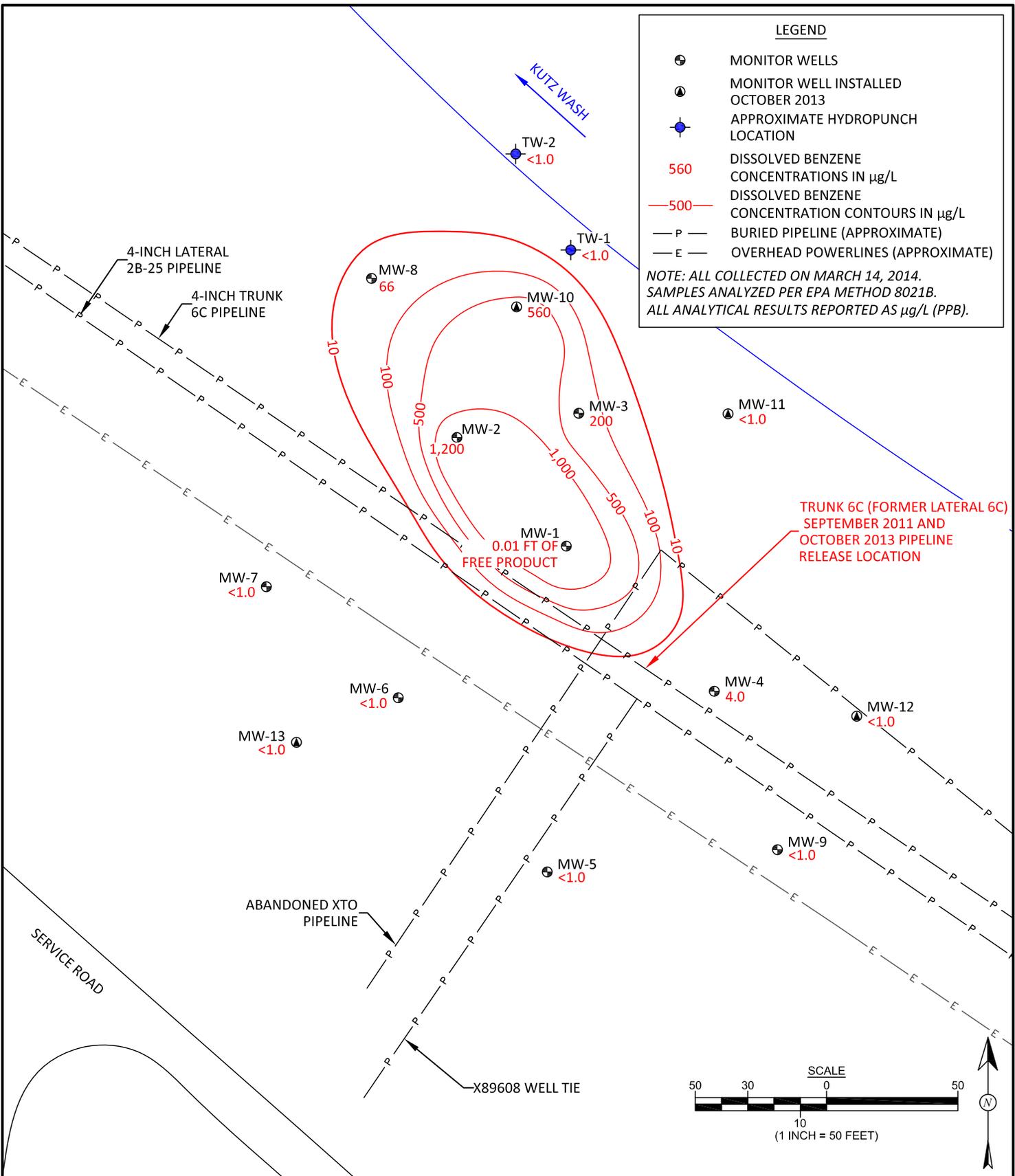
DRAWN BY: C. Lameman	DATE DRAWN: September 18, 2012
REVISIONS BY: C. Lameman	DATE REVISED: September 25, 2014
CHECKED BY: B. Everett	DATE CHECKED: September 25, 2014
APPROVED BY: E. McNally	DATE APPROVED: September 25, 2014

FIGURE 2
AERIAL SITE MAP
 ENTERPRISE FIELD SERVICES, LLC
 TRUNK 6C (FORMER LATERAL 6C) SEPTEMBER 2011
 AND OCTOBER 2013 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: September 25, 2014
CHECKED BY: B. Everett	DATE CHECKED: September 25, 2014
APPROVED BY: E. McNally	DATE APPROVED: September 25, 2014

FIGURE 4
GROUNDWATER CONTAMINANT CONCENTRATIONS, MARCH 2014
ENTERPRISE FIELD SERVICES, LLC
TRUNK 6C (FORMER LATERAL 6C) SEPTEMBER 2011 AND OCTOBER 2013 PIPELINE RELEASE
NE¼ SW¼, SECTION 26, T28N, R11W
SAN JUAN COUNTY, NEW MEXICO
N36.63202, W107.97400



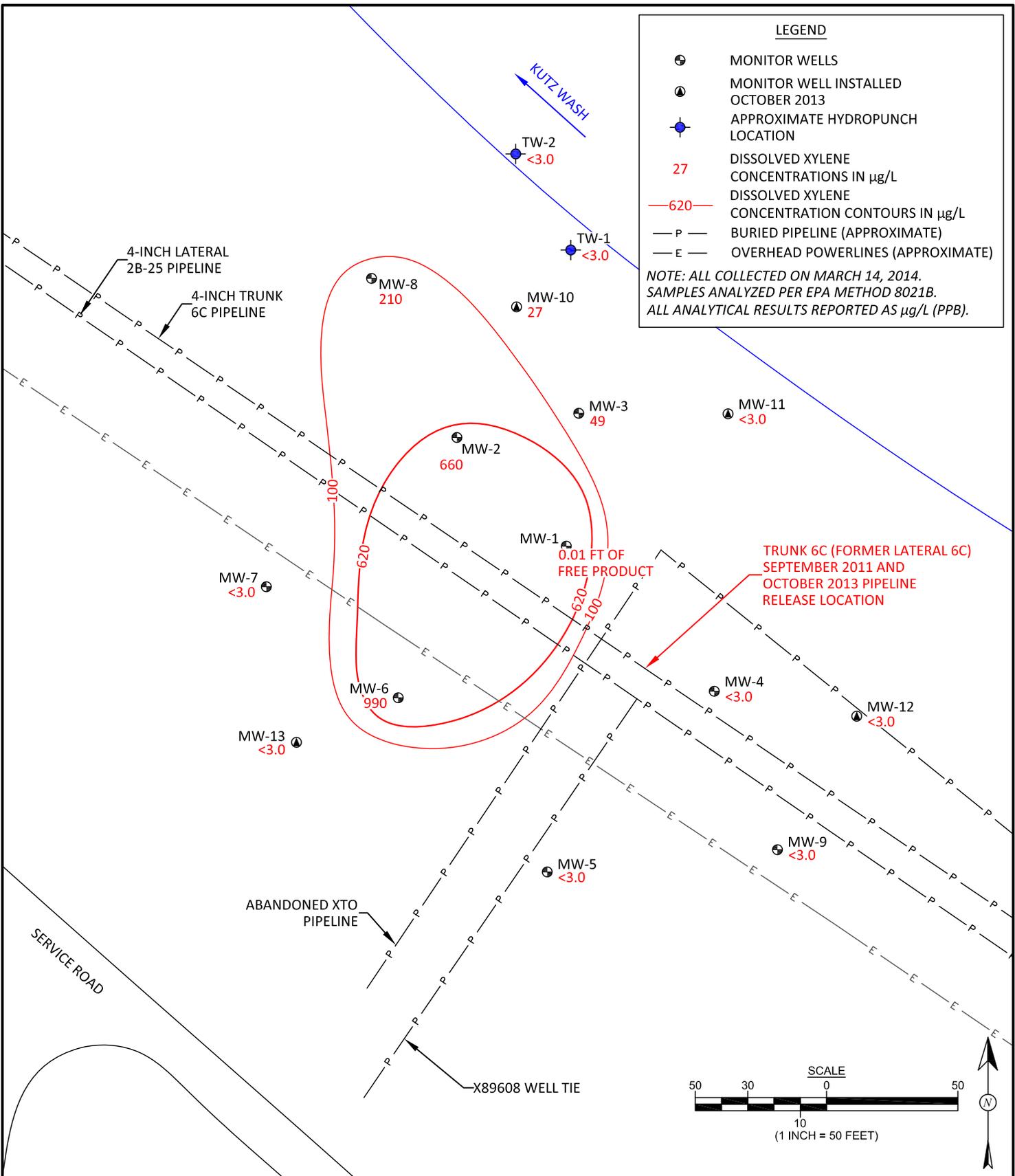
DRAWN BY: C. Lameman	DATE DRAWN: September 18, 2012
REVISIONS BY: C. Lameman	DATE REVISED: May 19, 2015
CHECKED BY: B. Everett	DATE CHECKED: May 19, 2015
APPROVED BY: E. McNally	DATE APPROVED: May 19, 2015

FIGURE 5

DISSOLVED BENZENE CONCENTRATION CONTOURS, MARCH 2014

ENTERPRISE FIELD SERVICES, LLC
 TRUNK 6C (FORMER LATERAL 6C) SEPTEMBER 2011 AND OCTOBER 2013 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: May 19, 2015
CHECKED BY: B. Everett	DATE CHECKED: May 19, 2015
APPROVED BY: E. McNally	DATE APPROVED: May 19, 2015

FIGURE 6

DISSOLVED XYLENE CONCENTRATION CONTOURS, MARCH 2014

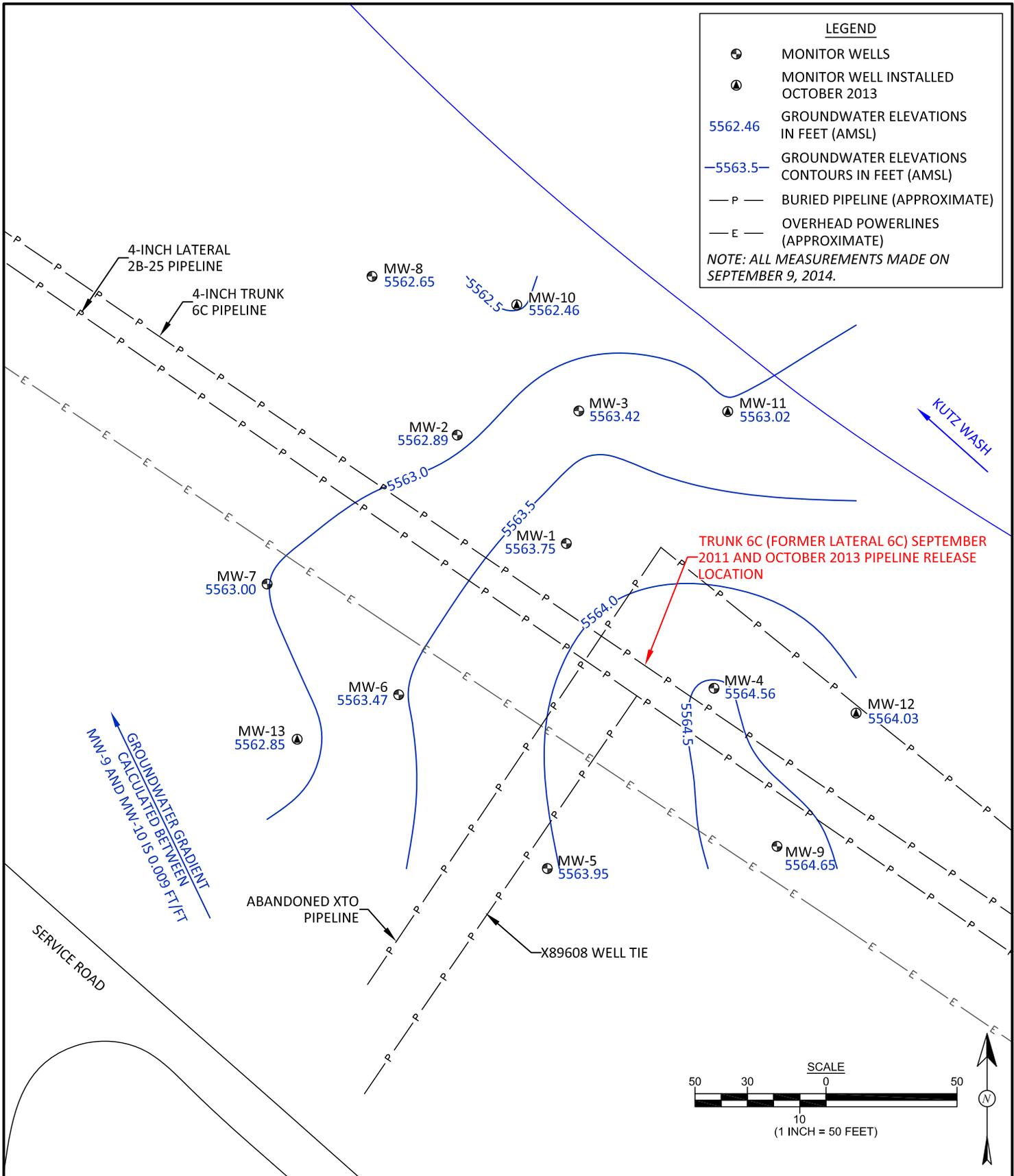
ENTERPRISE FIELD SERVICES, LLC
 TRUNK 6C (FORMER LATERAL 6C) SEPTEMBER 2011 AND OCTOBER 2013 PIPELINE RELEASE

NE¼ SW¼, SECTION 26, T28N, R11W
 SAN JUAN COUNTY, NEW MEXICO
 N36.63202, W107.97400

LEGEND

- ⊙ MONITOR WELLS
- ⊙ MONITOR WELL INSTALLED OCTOBER 2013
- 5562.46 GROUNDWATER ELEVATIONS IN FEET (AMSL)
- 5563.5- GROUNDWATER ELEVATIONS CONTOURS IN FEET (AMSL)
- P - BURIED PIPELINE (APPROXIMATE)
- E - OVERHEAD POWERLINES (APPROXIMATE)

NOTE: ALL MEASUREMENTS MADE ON SEPTEMBER 9, 2014.



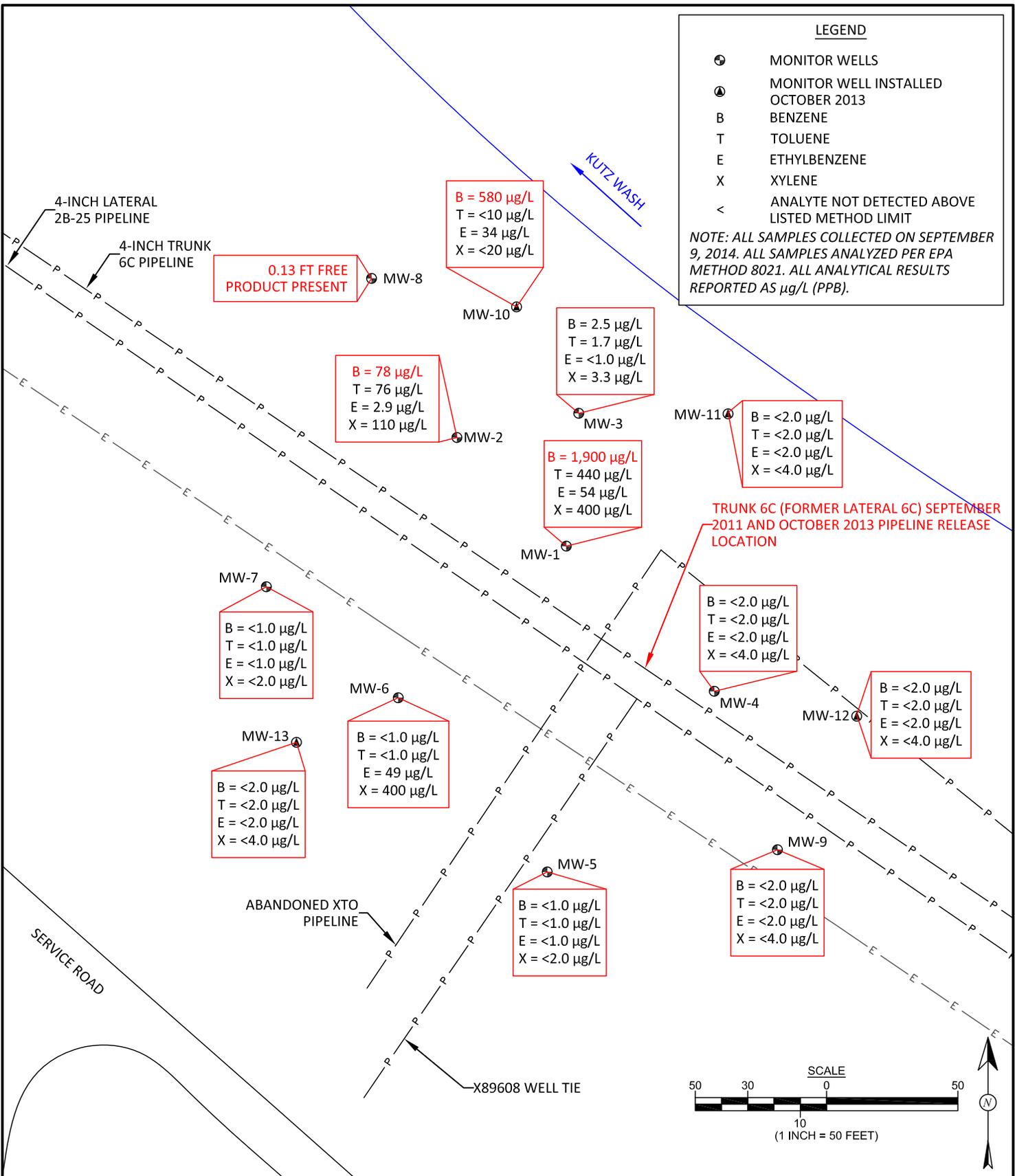
DRAWN BY: C. Lameman	DATE DRAWN: September 18, 2012
REVISIONS BY: C. Lameman	DATE REVISED: September 25, 2014
CHECKED BY: B. Everett	DATE CHECKED: September 25, 2014
APPROVED BY: E. McNally	DATE APPROVED: September 25, 2014

FIGURE 7

GROUNDWATER ELEVATION CONTOURS
SEPTEMBER 2014

ENTERPRISE FIELD SERVICES, LLC
TRUNK 6C (FORMER LATERAL 6C) SEPTEMBER 2011
AND OCTOBER 2013 PIPELINE RELEASE

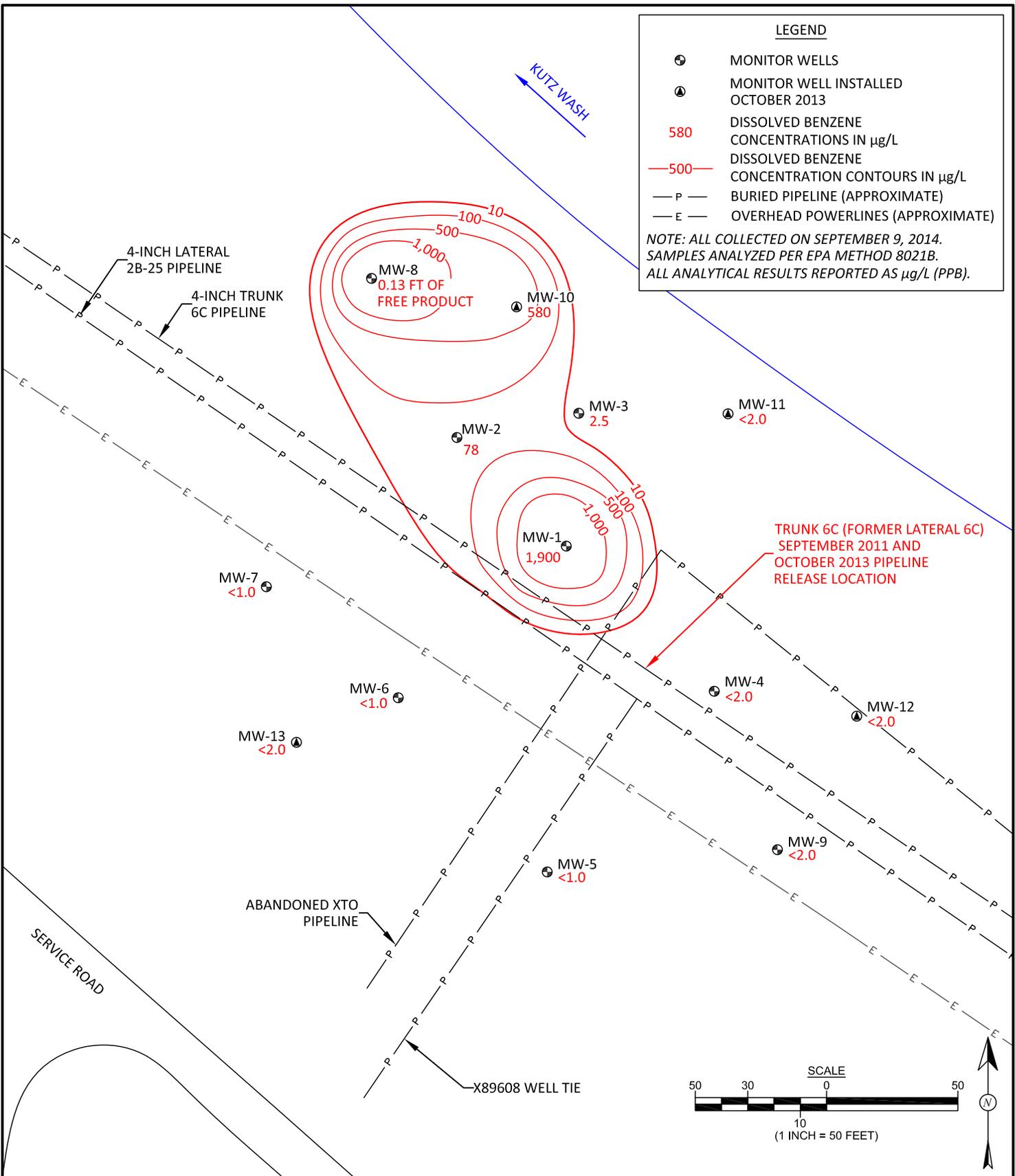
NE¼ SW¼, SECTION 26, T28N, R11W
SAN JUAN COUNTY, NEW MEXICO
N36.63202, W107.97400



DRAWN BY: C. Lameman	DATE DRAWN: September 18, 2012
REVISIONS BY: C. Lameman	DATE REVISED: September 25, 2014
CHECKED BY: B. Everett	DATE CHECKED: September 25, 2014
APPROVED BY: E. McNally	DATE APPROVED: September 25, 2014

FIGURE 8

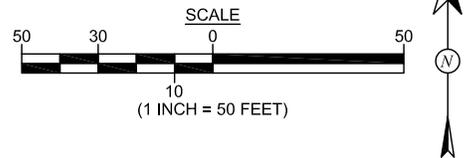
GROUNDWATER CONTAMINANT CONCENTRATIONS, SEPTEMBER 2014
ENTERPRISE FIELD SERVICES, LLC
TRUNK 6C (FORMER LATERAL 6C) SEPTEMBER 2011 AND OCTOBER 2013 PIPELINE RELEASE
NE¼ SW¼, SECTION 26, T28N, R11W
SAN JUAN COUNTY, NEW MEXICO
N36.63202, W107.97400



LEGEND

- MONITOR WELLS
- MONITOR WELL INSTALLED OCTOBER 2013
- 580 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)

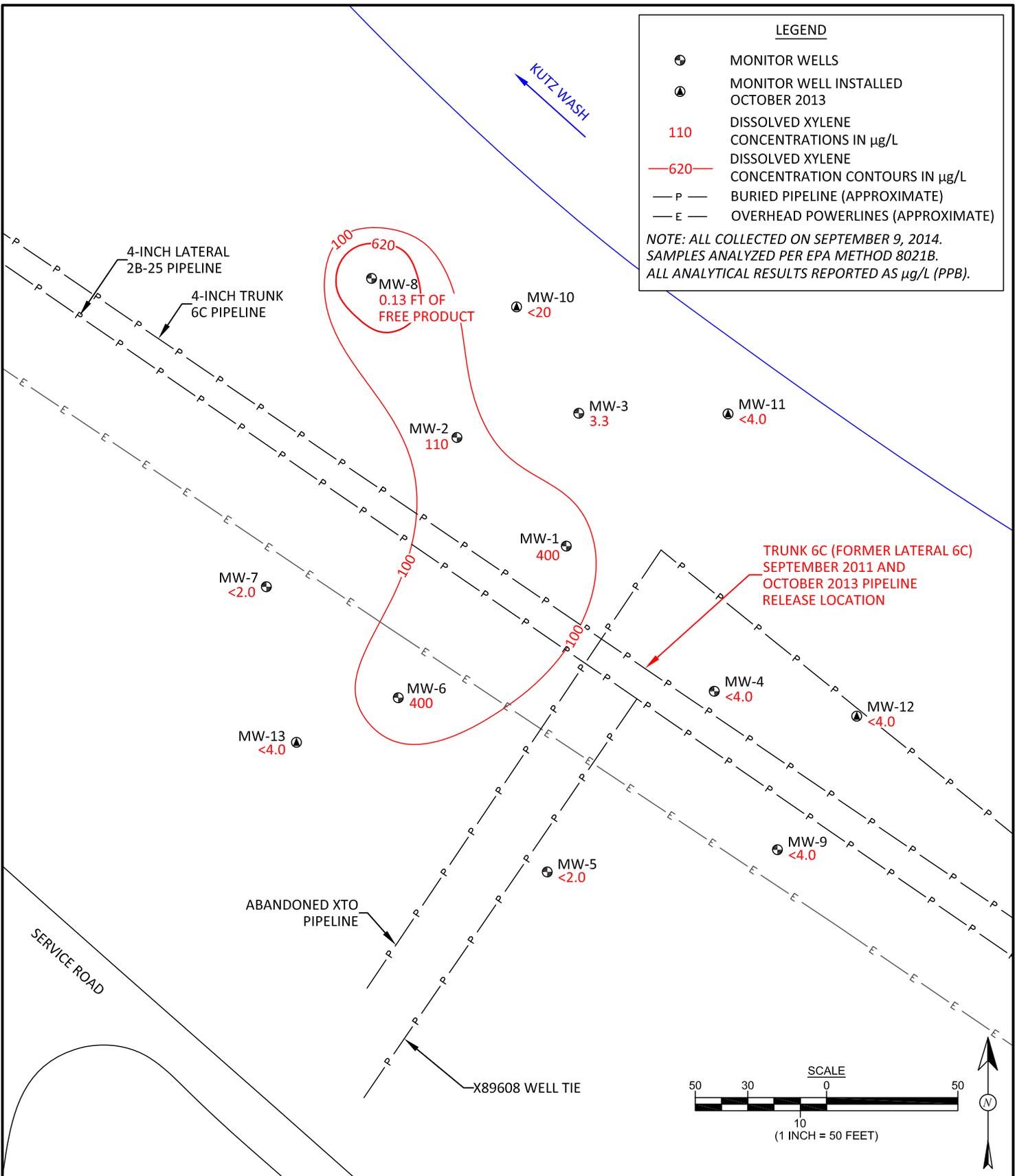
NOTE: ALL COLLECTED ON SEPTEMBER 9, 2014. SAMPLES ANALYZED PER EPA METHOD 8021B. ALL ANALYTICAL RESULTS REPORTED AS $\mu\text{g/L}$ (PPB).



DRAWN BY: C. Lameman	DATE DRAWN: September 18, 2012
REVISIONS BY: C. Lameman	DATE REVISED: September 25, 2014
CHECKED BY: B. Everett	DATE CHECKED: September 25, 2014
APPROVED BY: E. McNally	DATE APPROVED: September 25, 2014

FIGURE 9

DISSOLVED BENZENE CONCENTRATION CONTOURS, SEPTEMBER 2014
 ENTERPRISE FIELD SERVICES, LLC
 TRUNK 6C (FORMER LATERAL 6C) SEPTEMBER 2011 AND OCTOBER 2013 PIPELINE RELEASE
 NE $\frac{1}{4}$ SW $\frac{1}{4}$, 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: September 25, 2014
CHECKED BY: B. Everett	DATE CHECKED: September 25, 2014
APPROVED BY: E. McNally	DATE APPROVED: September 25, 2014

FIGURE 10

DISSOLVED XYLENE CONCENTRATION CONTOURS, SEPTEMBER 2014
 ENTERPRISE FIELD SERVICES, LLC
 TRUNK 6C (FORMER LATERAL 6C) SEPTEMBER 2011 AND OCTOBER 2013 PIPELINE RELEASE
 NE¼ SW¼, SECTION 26, T28N, R11W
 SAN JUAN COUNTY, NEW MEXICO
 N36.63202, W107.97400

Appendix A.

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

Project No.: AES 110904

Location: Enterprise Field Services, LLC

Date: 3/14/2014

Project: Lateral 6C

Arrival Time: 1600 1615 Sample Time

Sampling Technician: LL/JS

Air Temp: 52° F

Purge / No Purge: Purge

T.O.C. Elev. (ft): 5579.39

Well Diameter (in): 2

Total Well Depth (ft): 24.61

Initial D.T.W. (ft): 15.89 Time: _____ (taken at initial gauging of all wells)

Confirm D.T.W. (ft): 15.88 Time: 1602 (taken prior to purging well)

Final D.T.W. (ft): 16.30 Time: 1612 (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
1604	14.63	3.570	3.26	7.37	-53.2	1 cup	clear H ₂ O
1607	14.81	3.287		7.35	-173.2	1.0 gal	slight odor
						2.0 gal.	gray H ₂ O
1611	14.83	1.899		7.32	-222.4	3.0 gal	slight odor
1615	15.00	3.624	2.62	7.39	-218.6	4.30 gal	gray H ₂ O

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

BTEX 8021B (3x40mL VOA w/ HCL)

Disposal of Purged Water: Into 55 Gallon Drum for Proper Disposal

Collected Samples Stored on Ice in Cooler: Yes

Chain of Custody Record Complete: Yes

Analytical Laboratory: ALS Environmental Laboratory

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

Notes/Comments:

8.73 H₂O column

1.42 H₂O volume

4.30 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: 3/17/2014

Project: Lateral 6C

Arrival Time: 12:18 (1238 Sample Time)

Sampling Technician: LL/JS

Air Temp: 51°F

Purge / No Purge: Purge

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

Well Diameter (in): 2

Total Well Depth (ft): 26.22

Initial D.T.W. (ft): 18.73 Time: (taken at initial gauging of all wells)

Confirm D.T.W. (ft): 18.72 Time: 12:22 (taken prior to purging well)

Final D.T.W. (ft): 18.85 Time: 12:36 (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
1226	14.73	3.880		7.72	-298.4	1 st Bailen	gray, odor
1230	14.52	3.821	1.68	7.50	-296.5	1.0 gal.	gray H ₂ O
1233	14.35	2.411		7.43	-283.6	2.0 gal	
1235	14.29	3.685	1.81 2	7.45	-284.7	3.0 gal	gray H ₂ O
1238	14.24	3.914	1.44	7.42	-283.8	3.70 gal.	gray H ₂ O

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

BTEX 8021B (3x40mL VOA w/ HCL)

Disposal of Purged Water: Into 55 Gallon Drum for Proper Disposal

Collected Samples Stored on Ice in Cooler: Yes

Chain of Custody Record Complete: Yes

Analytical Laboratory: ALS Environmental Laboratory

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

Notes/Comments:

3.67 gal.
revised: 08/10/09

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-11

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: 3/14/2014

Project: Lateral 6C

Arrival Time: 1440 (1456 Sample)

Sampling Technician: LL / JS

Air Temp: 52°F

Purge / No Purge: Purge

T.O.C. Elev. (ft): 5578.65

Well Diameter (in): 1

Total Well Depth (ft): 20.84

Initial D.T.W. (ft): 14.82 Time: _____ (taken at initial gauging of all wells)

Confirm D.T.W. (ft): 14.85 Time: 1442 (taken prior to purging well)

Final D.T.W. (ft): 15.00 Time: 1459 (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	14.31	4.451	1.50	7.50	-93.0	1 cup	Clear H ₂ O
1447	13.34	4.539	1.21	7.43	-87.1	1/4 gal.	clear H ₂ O
1450	13.51	4.551	1.24	7.40	-85.1	.5 gal	clear H ₂ O
1456	12.79	4.591	1.35	7.40	-78.4	.75 gal	clear H ₂ O

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

BTEX 8021B (3x40mL VOA w/ HCL)

Disposal of Purged Water: Into 55 Gallon Drum for Proper Disposal

Collected Samples Stored on Ice in Cooler: Yes

Chain of Custody Record Complete: Yes

Analytical Laboratory: ALS Environmental Laboratory

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

Notes/Comments:

0.75

revised: 08/10/09

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-13

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: 3/14/2014

Project: Lateral 6C

Arrival Time: 1411 (1437 Sample)

Sampling Technician: W/JS

Air Temp: 51°F

Purge / No Purge: Purge

T.O.C. Elev. (ft): 5583.03

Well Diameter (in): 1

Total Well Depth (ft): 24.85

Initial D.T.W. (ft): 19.63 Time: (taken at initial gauging of all wells)

Confirm D.T.W. (ft): 19.64 Time: 1413 (taken prior to purging well)

Final D.T.W. (ft): Time: (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
1418	16.65	3.434	1.65	7.48	-135.7	1 cup	Clear H ₂ O
1425	16.91	3.433	2.20	7.32	-118.6	1/4 gal.	Clear H ₂ O
1430	16.99	3.437	2.32	7.29	-113.2	0.5 gal.	clear H ₂ O
1437	17.00	3.436	2.41	7.31	-108.3	0.65 gal.	clear H ₂ O

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

BTEX 8021B (3x40mL VOA w/ HCL)

Disposal of Purged Water: Into 55 Gallon Drum for Proper Disposal

Collected Samples Stored on Ice in Cooler: Yes

Chain of Custody Record Complete: Yes

Analytical Laboratory: ALS Environmental Laboratory

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

Notes/Comments:

0.65

revised: 08/10/09

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-1

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: 9/9/14

Project: Lateral 6C

Arrival Time: ~~0937~~ 1006

Sampling Technician: W/BE

Air Temp: 61

Purge / No Purge: Purge

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

Well Diameter (in): 2

Total Well Depth (ft): 27.30

Initial D.T.W. (ft): 15.99 Time: 0730 (taken at initial gauging of all wells)

Confirm D.T.W. (ft): 15.98 Time: 1007 (taken prior to purging well)

Final D.T.W. (ft): 17.30 Time: 1022 (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
0937							
1011	16.96	2.119	4.05	9.02	-321.0		Black, clean
1013	17.67	2.402	1.39	9.06	-333.3	1 gal	chunky
1015	17.61	2.486	1.36	9.20	-338.1	2 gal	smelly
1017	17.63	2.497	1.18	9.11	-337.4	3 gal	d.
1019	17.47	2.544	1.19	9.17	-331.3	4 gal	
1021	17.55	2.592	1.17	9.16	-332.9	5.53 gal	

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

BTEX 8021B (3x40mL VOA w/ HCL)

Disposal of Purged Water: Into 55 Gallon Drum for Proper Disposal

Collected Samples Stored on Ice in Cooler: Yes

Chain of Custody Record Complete: Yes

Analytical Laboratory: ALS Environmental Laboratory

Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and Peristaltic Pump *Ba/05*

Notes/Comments:

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: 9/9/14

Project: Lateral 6C

Arrival Time: 0948

Sampling Technician: LL/BE

Air Temp: 61

Purge / No Purge: Purge

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

Well Diameter (in): 2

Total Well Depth (ft): 25.65

Initial D.T.W. (ft): 16.10 Time: 0730 (taken at initial gauging of all wells)

Confirm D.T.W. (ft): 16.10 Time: 0949 (taken prior to purging well)

Final D.T.W. (ft): 17.20 Time: 0958 (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
0951	16.14	2.407	2.96	9.17	-185.5		
0952	16.33	2.639	2.63	9.13	-182.4	1 gal	
0953	15.96	2.774	3.34	9.15	-152.5	2 gal	
0955	15.58	2.740	3.38	9.13	-204.6	3 gal	
0957	15.57	2.718	3.15	9.07	-207.2	4 gal	
0958	15.52	2.748	2.92	9.08	-205.1	4.75 gal	

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

BTEX 8021B (3x40mL VOA w/ HCL)

Disposal of Purged Water: Into 55 Gallon Drum for Proper Disposal

Collected Samples Stored on Ice in Cooler: Yes

Chain of Custody Record Complete: Yes

Analytical Laboratory: ALS Environmental Laboratory

Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and Peristaltic Pump *Baier*

Notes/Comments:

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
 Location: Enterprise Field Services, LLC
 Project: Lateral 6C
 Sampling Technician: LL/BE
 Purge / No Purge: Purge
 Well Diameter (in): 2
 Initial D.T.W. (ft): ~~25.55~~ 19.58 Time: 0730
 Confirm D.T.W. (ft): 19.58 Time: 0840
 Final D.T.W. (ft): 19.75 Time: 0850
 If NAPL Present: D.T.P.: _____ D.T.W.: _____ Thickness: _____ Time: _____

Project No.: AES 110904
 Date: 9/9/14
 Arrival Time: 0838
 Air Temp: 61.0
 T.O.C. Elev. (ft): 5583.53
 Total Well Depth (ft): 25.42
 (taken at initial gauging of all wells)
 (taken prior to purging well)
 (taken after sample collection)

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
0842	14.79	1.957	3.40	9.09	-17.8		
0845	14.83	2.222	3.87	9.20	-51.5	1 gal	
0847	14.67	2.289	4.13	9.16	-52.6	2 gal	
0849	14.69	2.299	5.01	9.13	-54.1	3 gal	

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

BTEX 8021B (3x40mL VOA w/ HCL)

Disposal of Purged Water: Into 55 Gallon Drum for Proper Disposal

Collected Samples Stored on Ice in Cooler: Yes

Chain of Custody Record Complete: Yes

Analytical Laboratory: ALS Environmental Laboratory

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

Notes/Comments:

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
 Location: Enterprise Field Services, LLC
 Project: Lateral 6C
 Sampling Technician: LL / BE
 Purge / No Purge: Purge
 Well Diameter (in): 2
 Initial D.T.W. (ft): 18.75 Time: 0730
 Confirm D.T.W. (ft): 18.75 Time: 0859
 Final D.T.W. (ft): 19.10 Time: 0906
 If NAPL Present: D.T.P.: D.T.W.: Thickness: Time:

Project No.: AES 110904
 Date: 9/9/14
 Arrival Time: 0858
 Air Temp: 61
 T.O.C. Elev. (ft): 5582.22
 Total Well Depth (ft): 24.76
 (taken at initial gauging of all wells)
 (taken prior to purging well)
 (taken after sample collection)

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
0900	15.39	1.962	6.50	9.53	-289.9		
0902	15.36	2.099	2.72	9.20	-327.2	1 gal	
0904	15.37	2.141	2.84	9.23	-325.9	2 gal	
0905	15.32	2.099	1.83	9.18	-320.1	3 gal	clear

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

BTEX 8021B (3x40mL VOA w/ HCL)

Disposal of Purged Water: Into 55 Gallon Drum for Proper Disposal

Collected Samples Stored on Ice in Cooler: Yes

Chain of Custody Record Complete: Yes

Analytical Laboratory: ALS Environmental Laboratory

Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and Peristaltic Pump *Da. Ver*

Notes/Comments:

Appendix B.



26-Mar-2014

Heather Woods
Animas Environmental Services
624 E. Comanche
Farmington, NM 87401

Tel: (505) 436-2064
Fax: (505) 324-2022

Re: Lateral 6C Pipeline Release

Work Order: **14030737**

Dear Heather,

ALS Environmental received 15 samples on 18-Mar-2014 09:09 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 29.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

A handwritten signature in black ink that reads "Bethany McDaniel".

Electronically approved by: Dayna.Fisher

Bethany McDaniel
Project Manager



Certificate No: T104704231-13-12

ADDRESS 10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 | PHONE (281) 530-5656 | FAX (281) 530-5887

ALS GROUP USA, CORP. Part of the ALS Group An ALS Limited Company

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: Animas Environmental Services
Project: Lateral 6C Pipeline Release
Work Order: 14030737

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
14030737-01	MW-2	Aqueous		3/14/2014 16:15	3/18/2014 09:09	<input type="checkbox"/>
14030737-02	MW-3	Aqueous		3/14/2014 15:56	3/18/2014 09:09	<input type="checkbox"/>
14030737-03	MW-4	Aqueous		3/14/2014 15:33	3/18/2014 09:09	<input type="checkbox"/>
14030737-04	MW-5	Aqueous		3/14/2014 13:03	3/18/2014 09:09	<input type="checkbox"/>
14030737-05	MW-6	Aqueous		3/14/2014 11:46	3/18/2014 09:09	<input type="checkbox"/>
14030737-06	MW-7	Aqueous		3/14/2014 12:38	3/18/2014 09:09	<input type="checkbox"/>
14030737-07	MW-8	Aqueous		3/14/2014 13:29	3/18/2014 09:09	<input type="checkbox"/>
14030737-08	MW-9	Aqueous		3/14/2014 12:11	3/18/2014 09:09	<input type="checkbox"/>
14030737-09	MW-10	Aqueous		3/14/2014 15:14	3/18/2014 09:09	<input type="checkbox"/>
14030737-10	MW-11	Aqueous		3/14/2014 14:56	3/18/2014 09:09	<input type="checkbox"/>
14030737-11	MW-12	Aqueous		3/14/2014 14:00	3/18/2014 09:09	<input type="checkbox"/>
14030737-12	MW-13	Aqueous		3/14/2014 14:37	3/18/2014 09:09	<input type="checkbox"/>
14030737-13	TW-1	Aqueous		3/14/2014 16:29	3/18/2014 09:09	<input type="checkbox"/>
14030737-14	TW-2	Aqueous		3/14/2014 16:34	3/18/2014 09:09	<input type="checkbox"/>
14030737-15	Trip Blank VBLKW-141003	Aqueous		3/14/2014	3/18/2014 09:09	<input checked="" type="checkbox"/>

ALS Environmental

Date: 26-Mar-14

Client: Animas Environmental Services

Project: Lateral 6C Pipeline Release

Work Order: 14030737

Case Narrative

ALS Environmental

Date: 26-Mar-14

Client: Animas Environmental Services

Project: Lateral 6C Pipeline Release

Work Order: 14030737

Sample ID: MW-2

Lab ID: 14030737-01

Collection Date: 3/14/2014 04:15 PM

Matrix: AQUEOUS

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX BY SW8021B			SW8021B			Analyst: DNR
m,p-Xylene	530		20	ug/L	10	3/21/2014 01:27 PM
o-Xylene	170		1	ug/L	1	3/21/2014 02:37 AM
Benzene	1,200		10	ug/L	10	3/21/2014 01:27 PM
Toluene	1,600		10	ug/L	10	3/21/2014 01:27 PM
Ethylbenzene	74		1	ug/L	1	3/21/2014 02:37 AM
Xylenes, Total	660		30	ug/L	10	3/21/2014 01:27 PM
Surr: 4-Bromofluorobenzene	92.6		75-129	%REC	10	3/21/2014 01:27 PM
Surr: 4-Bromofluorobenzene	104		75-129	%REC	1	3/21/2014 02:37 AM
Surr: Trifluorotoluene	107		75-130	%REC	10	3/21/2014 01:27 PM
Surr: Trifluorotoluene	94.6		75-130	%REC	1	3/21/2014 02:37 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 26-Mar-14

Client: Animas Environmental Services

Project: Lateral 6C Pipeline Release

Work Order: 14030737

Sample ID: MW-3

Lab ID: 14030737-02

Collection Date: 3/14/2014 03:56 PM

Matrix: AQUEOUS

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX BY SW8021B			SW8021B			Analyst: DNR
m,p-Xylene	27		2	ug/L	1	3/21/2014 02:54 AM
o-Xylene	22		1	ug/L	1	3/21/2014 02:54 AM
Benzene	200		5	ug/L	5	3/21/2014 01:44 PM
Toluene	86		1	ug/L	1	3/21/2014 02:54 AM
Ethylbenzene	4		1	ug/L	1	3/21/2014 02:54 AM
Xylenes, Total	49		3	ug/L	1	3/21/2014 02:54 AM
Surr: 4-Bromofluorobenzene	92.6		75-129	%REC	5	3/21/2014 01:44 PM
Surr: 4-Bromofluorobenzene	97.8		75-129	%REC	1	3/21/2014 02:54 AM
Surr: Trifluorotoluene	95.4		75-130	%REC	5	3/21/2014 01:44 PM
Surr: Trifluorotoluene	127		75-130	%REC	1	3/21/2014 02:54 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 26-Mar-14

Client: Animas Environmental Services

Project: Lateral 6C Pipeline Release

Work Order: 14030737

Sample ID: MW-4

Lab ID: 14030737-03

Collection Date: 3/14/2014 03:33 PM

Matrix: AQUEOUS

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX BY SW8021B			SW8021B			Analyst: DNR
m,p-Xylene	ND		2	ug/L	1	3/21/2014 03:12 AM
o-Xylene	ND		1	ug/L	1	3/21/2014 03:12 AM
Benzene	4		1	ug/L	1	3/21/2014 03:12 AM
Toluene	ND		1	ug/L	1	3/21/2014 03:12 AM
Ethylbenzene	ND		1	ug/L	1	3/21/2014 03:12 AM
Xylenes, Total	ND		3	ug/L	1	3/21/2014 03:12 AM
Surr: 4-Bromofluorobenzene	84.2		75-129	%REC	1	3/21/2014 03:12 AM
Surr: Trifluorotoluene	86.4		75-130	%REC	1	3/21/2014 03:12 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 26-Mar-14

Client: Animas Environmental Services

Project: Lateral 6C Pipeline Release

Sample ID: MW-5

Collection Date: 3/14/2014 01:03 PM

Work Order: 14030737

Lab ID: 14030737-04

Matrix: AQUEOUS

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX BY SW8021B			SW8021B			Analyst: DNR
m,p-Xylene	ND		2	ug/L	1	3/21/2014 03:29 AM
o-Xylene	ND		1	ug/L	1	3/21/2014 03:29 AM
Benzene	ND		1	ug/L	1	3/21/2014 03:29 AM
Toluene	ND		1	ug/L	1	3/21/2014 03:29 AM
Ethylbenzene	ND		1	ug/L	1	3/21/2014 03:29 AM
Xylenes, Total	ND		3	ug/L	1	3/21/2014 03:29 AM
Surr: 4-Bromofluorobenzene	91.1		75-129	%REC	1	3/21/2014 03:29 AM
Surr: Trifluorotoluene	96.6		75-130	%REC	1	3/21/2014 03:29 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 26-Mar-14

Client: Animas Environmental Services

Project: Lateral 6C Pipeline Release

Work Order: 14030737

Sample ID: MW-6

Lab ID: 14030737-05

Collection Date: 3/14/2014 11:46 AM

Matrix: AQUEOUS

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX BY SW8021B			SW8021B			Analyst: DNR
m,p-Xylene	970		10	ug/L	5	3/21/2014 02:01 PM
o-Xylene	13		1	ug/L	1	3/21/2014 04:21 AM
Benzene	ND		1	ug/L	1	3/21/2014 04:21 AM
Toluene	ND		1	ug/L	1	3/21/2014 04:21 AM
Ethylbenzene	150		1	ug/L	1	3/21/2014 04:21 AM
Xylenes, Total	990		15	ug/L	5	3/21/2014 02:01 PM
Surr: 4-Bromofluorobenzene	97.3		75-129	%REC	5	3/21/2014 02:01 PM
Surr: 4-Bromofluorobenzene	89.4		75-129	%REC	1	3/21/2014 04:21 AM
Surr: Trifluorotoluene	96.0		75-130	%REC	5	3/21/2014 02:01 PM
Surr: Trifluorotoluene	75.9		75-130	%REC	1	3/21/2014 04:21 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 26-Mar-14

Client: Animas Environmental Services

Project: Lateral 6C Pipeline Release

Work Order: 14030737

Sample ID: MW-7

Lab ID: 14030737-06

Collection Date: 3/14/2014 12:38 PM

Matrix: AQUEOUS

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX BY SW8021B			SW8021B			Analyst: DNR
m,p-Xylene	ND		2	ug/L	1	3/21/2014 03:46 AM
o-Xylene	ND		1	ug/L	1	3/21/2014 03:46 AM
Benzene	ND		1	ug/L	1	3/21/2014 03:46 AM
Toluene	ND		1	ug/L	1	3/21/2014 03:46 AM
Ethylbenzene	ND		1	ug/L	1	3/21/2014 03:46 AM
Xylenes, Total	ND		3	ug/L	1	3/21/2014 03:46 AM
Surr: 4-Bromofluorobenzene	95.7		75-129	%REC	1	3/21/2014 03:46 AM
Surr: Trifluorotoluene	90.0		75-130	%REC	1	3/21/2014 03:46 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 26-Mar-14

Client: Animas Environmental Services

Project: Lateral 6C Pipeline Release

Work Order: 14030737

Sample ID: MW-8

Lab ID: 14030737-07

Collection Date: 3/14/2014 01:29 PM

Matrix: AQUEOUS

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX BY SW8021B			SW8021B			Analyst: DNR
m,p-Xylene	170		2	ug/L	1	3/21/2014 04:04 AM
o-Xylene	41		1	ug/L	1	3/21/2014 04:04 AM
Benzene	66		1	ug/L	1	3/21/2014 04:04 AM
Toluene	190		1	ug/L	1	3/21/2014 04:04 AM
Ethylbenzene	10		1	ug/L	1	3/21/2014 04:04 AM
Xylenes, Total	210		3	ug/L	1	3/21/2014 04:04 AM
Surr: 4-Bromofluorobenzene	99.6		75-129	%REC	1	3/21/2014 04:04 AM
Surr: Trifluorotoluene	101		75-130	%REC	1	3/21/2014 04:04 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 26-Mar-14

Client: Animas Environmental Services

Project: Lateral 6C Pipeline Release

Work Order: 14030737

Sample ID: MW-9

Lab ID: 14030737-08

Collection Date: 3/14/2014 12:11 PM

Matrix: AQUEOUS

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX BY SW8021B			SW8021B			Analyst: DNR
m,p-Xylene	ND		2	ug/L	1	3/21/2014 02:36 PM
o-Xylene	ND		1	ug/L	1	3/21/2014 02:36 PM
Benzene	ND		1	ug/L	1	3/21/2014 02:36 PM
Toluene	ND		1	ug/L	1	3/21/2014 02:36 PM
Ethylbenzene	ND		1	ug/L	1	3/21/2014 02:36 PM
Xylenes, Total	ND		3	ug/L	1	3/21/2014 02:36 PM
Surr: 4-Bromofluorobenzene	91.1		75-129	%REC	1	3/21/2014 02:36 PM
Surr: Trifluorotoluene	94.7		75-130	%REC	1	3/21/2014 02:36 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 26-Mar-14

Client: Animas Environmental Services

Project: Lateral 6C Pipeline Release

Work Order: 14030737

Sample ID: MW-10

Lab ID: 14030737-09

Collection Date: 3/14/2014 03:14 PM

Matrix: AQUEOUS

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX BY SW8021B			SW8021B			Analyst: DNR
m,p-Xylene	26		2	ug/L	1	3/21/2014 02:54 PM
o-Xylene	2		1	ug/L	1	3/21/2014 02:54 PM
Benzene	560		5	ug/L	5	3/24/2014 12:11 PM
Toluene	4		1	ug/L	1	3/21/2014 02:54 PM
Ethylbenzene	16		1	ug/L	1	3/21/2014 02:54 PM
Xylenes, Total	27		3	ug/L	1	3/21/2014 02:54 PM
Surr: 4-Bromofluorobenzene	94.6		75-129	%REC	5	3/24/2014 12:11 PM
Surr: 4-Bromofluorobenzene	94.0		75-129	%REC	1	3/21/2014 02:54 PM
Surr: Trifluorotoluene	92.0		75-130	%REC	5	3/24/2014 12:11 PM
Surr: Trifluorotoluene	119		75-130	%REC	1	3/21/2014 02:54 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 26-Mar-14

Client: Animas Environmental Services

Project: Lateral 6C Pipeline Release

Work Order: 14030737

Sample ID: MW-11

Lab ID: 14030737-10

Collection Date: 3/14/2014 02:56 PM

Matrix: AQUEOUS

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX BY SW8021B			SW8021B			Analyst: DNR
m,p-Xylene	ND		2	ug/L	1	3/21/2014 03:11 PM
o-Xylene	ND		1	ug/L	1	3/21/2014 03:11 PM
Benzene	ND		1	ug/L	1	3/24/2014 11:53 AM
Toluene	ND		1	ug/L	1	3/21/2014 03:11 PM
Ethylbenzene	ND		1	ug/L	1	3/21/2014 03:11 PM
Xylenes, Total	ND		3	ug/L	1	3/21/2014 03:11 PM
Surr: 4-Bromofluorobenzene	93.7		75-129	%REC	1	3/24/2014 11:53 AM
Surr: 4-Bromofluorobenzene	92.8		75-129	%REC	1	3/21/2014 03:11 PM
Surr: Trifluorotoluene	87.6		75-130	%REC	1	3/24/2014 11:53 AM
Surr: Trifluorotoluene	95.0		75-130	%REC	1	3/21/2014 03:11 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 26-Mar-14

Client: Animas Environmental Services

Project: Lateral 6C Pipeline Release

Work Order: 14030737

Sample ID: MW-12

Lab ID: 14030737-11

Collection Date: 3/14/2014 02:00 PM

Matrix: AQUEOUS

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX BY SW8021B			SW8021B			Analyst: DNR
m,p-Xylene	ND		2	ug/L	1	3/21/2014 03:28 PM
o-Xylene	ND		1	ug/L	1	3/21/2014 03:28 PM
Benzene	ND		1	ug/L	1	3/21/2014 03:28 PM
Toluene	ND		1	ug/L	1	3/21/2014 03:28 PM
Ethylbenzene	ND		1	ug/L	1	3/21/2014 03:28 PM
Xylenes, Total	ND		3	ug/L	1	3/21/2014 03:28 PM
Surr: 4-Bromofluorobenzene	98.0		75-129	%REC	1	3/21/2014 03:28 PM
Surr: Trifluorotoluene	102		75-130	%REC	1	3/21/2014 03:28 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 26-Mar-14

Client: Animas Environmental Services

Project: Lateral 6C Pipeline Release

Work Order: 14030737

Sample ID: MW-13

Lab ID: 14030737-12

Collection Date: 3/14/2014 02:37 PM

Matrix: AQUEOUS

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX BY SW8021B			SW8021B			Analyst: DNR
m,p-Xylene	2		2	ug/L	1	3/24/2014 10:58 AM
o-Xylene	ND		1	ug/L	1	3/24/2014 10:58 AM
Benzene	ND		1	ug/L	1	3/24/2014 10:58 AM
Toluene	ND		1	ug/L	1	3/24/2014 10:58 AM
Ethylbenzene	ND		1	ug/L	1	3/24/2014 10:58 AM
Xylenes, Total	ND		3	ug/L	1	3/24/2014 10:58 AM
Surr: 4-Bromofluorobenzene	97.9		75-129	%REC	1	3/24/2014 10:58 AM
Surr: Trifluorotoluene	93.4		75-130	%REC	1	3/24/2014 10:58 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 26-Mar-14

Client: Animas Environmental Services

Project: Lateral 6C Pipeline Release

Work Order: 14030737

Sample ID: TW-1

Lab ID: 14030737-13

Collection Date: 3/14/2014 04:29 PM

Matrix: AQUEOUS

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX BY SW8021B			SW8021B			Analyst: DNR
m,p-Xylene	ND		2	ug/L	1	3/21/2014 04:03 PM
o-Xylene	ND		1	ug/L	1	3/21/2014 04:03 PM
Benzene	ND		1	ug/L	1	3/21/2014 04:03 PM
Toluene	ND		1	ug/L	1	3/21/2014 04:03 PM
Ethylbenzene	ND		1	ug/L	1	3/21/2014 04:03 PM
Xylenes, Total	ND		3	ug/L	1	3/21/2014 04:03 PM
Surr: 4-Bromofluorobenzene	89.9		75-129	%REC	1	3/21/2014 04:03 PM
Surr: Trifluorotoluene	93.0		75-130	%REC	1	3/21/2014 04:03 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 26-Mar-14

Client: Animas Environmental Services

Project: Lateral 6C Pipeline Release

Work Order: 14030737

Sample ID: TW-2

Lab ID: 14030737-14

Collection Date: 3/14/2014 04:34 PM

Matrix: AQUEOUS

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX BY SW8021B			SW8021B			Analyst: DNR
m,p-Xylene	ND		2	ug/L	1	3/21/2014 04:20 PM
o-Xylene	ND		1	ug/L	1	3/21/2014 04:20 PM
Benzene	ND		1	ug/L	1	3/21/2014 04:20 PM
Toluene	ND		1	ug/L	1	3/21/2014 04:20 PM
Ethylbenzene	ND		1	ug/L	1	3/21/2014 04:20 PM
Xylenes, Total	ND		3	ug/L	1	3/21/2014 04:20 PM
Surr: 4-Bromofluorobenzene	90.5		75-129	%REC	1	3/21/2014 04:20 PM
Surr: Trifluorotoluene	93.4		75-130	%REC	1	3/21/2014 04:20 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Work Order: 14030737
 Client: Animas Environmental Services
 Project: Lateral 6C Pipeline Release

DATES REPORT

Sample ID	Client Sample ID	Matrix	Collection Date	TCLP Date	Prep Date	Analysis Date
<u>Batch ID: R163224</u> <u>Test Name: BTEX by SW8021B</u>						
14030737-01A	MW-2	Aqueous	3/14/2014 4:15:00 PM			3/21/2014 02:37 AM
14030737-02A	MW-3		3/14/2014 3:56:00 PM			3/21/2014 02:54 AM
14030737-03A	MW-4		3/14/2014 3:33:00 PM			3/21/2014 03:12 AM
14030737-04A	MW-5		3/14/2014 1:03:00 PM			3/21/2014 03:29 AM
14030737-05A	MW-6		3/14/2014 11:46:00 AM			3/21/2014 04:21 AM
14030737-06A	MW-7		3/14/2014 12:38:00 PM			3/21/2014 03:46 AM
14030737-07A	MW-8		3/14/2014 1:29:00 PM			3/21/2014 04:04 AM
<u>Batch ID: R163256</u> <u>Test Name: BTEX by SW8021B</u>						
14030737-01A	MW-2	Aqueous	3/14/2014 4:15:00 PM			3/21/2014 01:27 PM
14030737-02A	MW-3		3/14/2014 3:56:00 PM			3/21/2014 01:44 PM
14030737-05A	MW-6		3/14/2014 11:46:00 AM			3/21/2014 02:01 PM
14030737-08A	MW-9		3/14/2014 12:11:00 PM			3/21/2014 02:36 PM
14030737-09A	MW-10		3/14/2014 3:14:00 PM			3/21/2014 02:54 PM
14030737-10A	MW-11		3/14/2014 2:56:00 PM			3/21/2014 03:11 PM
14030737-11A	MW-12		3/14/2014 2:00:00 PM			3/21/2014 03:28 PM
14030737-13A	TW-1		3/14/2014 4:29:00 PM			3/21/2014 04:03 PM
14030737-14A	TW-2		3/14/2014 4:34:00 PM			3/21/2014 04:20 PM
<u>Batch ID: R163335</u> <u>Test Name: BTEX by SW8021B</u>						
14030737-09A	MW-10	Aqueous	3/14/2014 3:14:00 PM			3/24/2014 12:11 PM
14030737-10A	MW-11		3/14/2014 2:56:00 PM			3/24/2014 11:53 AM
14030737-12A	MW-13		3/14/2014 2:37:00 PM			3/24/2014 10:58 AM

Client: Animas Environmental Services
Work Order: 14030737
Project: Lateral 6C Pipeline Release

QC BATCH REPORT

Batch ID: **R163224** Instrument ID **BTEX1** Method: **SW8021B**

MBLK		Sample ID: BBLKW1-140320-R163224				Units: µg/L		Analysis Date: 3/20/2014 09:25 PM			
Client ID:		Run ID: BTEX1_140320B				SeqNo: 3572908		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
m,p-Xylene	ND	2.0									
o-Xylene	ND	1.0									
Benzene	ND	1.0									
Toluene	ND	1.0									
Ethylbenzene	ND	1.0									
Xylenes, Total	ND	3.0									
<i>Surr: 4-Bromofluorobenzene</i>	24.85	1.0	30	0	82.8	75-129	0				
<i>Surr: Trifluorotoluene</i>	27.35	1.0	30	0	91.2	75-130	0				

LCS		Sample ID: BLCSS1-140320-R163224				Units: µg/L		Analysis Date: 3/20/2014 08:51 PM			
Client ID:		Run ID: BTEX1_140320B				SeqNo: 3572907		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
m,p-Xylene	38.32	2.0	40	0	95.8	75-125					
o-Xylene	19.73	1.0	20	0	98.6	75-125					
Benzene	18.62	1.0	20	0	93.1	75-126					
Toluene	18.62	1.0	20	0	93.1	75-125					
Ethylbenzene	18.97	1.0	20	0	94.8	75-125					
Xylenes, Total	58.05	3.0	60	0	96.8	75-125					
<i>Surr: 4-Bromofluorobenzene</i>	24.66	1.0	30	0	82.2	75-129	0				
<i>Surr: Trifluorotoluene</i>	26.52	1.0	30	0	88.4	75-130	0				

MS		Sample ID: 14030720-21AMS				Units: µg/L		Analysis Date: 3/20/2014 10:00 PM			
Client ID:		Run ID: BTEX1_140320B				SeqNo: 3572910		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
m,p-Xylene	37.18	2.0	40	0	93	75-125					
o-Xylene	19.19	1.0	20	0	96	75-125					
Benzene	18.43	1.0	20	0	92.2	75-126					
Toluene	18.29	1.0	20	0	91.4	75-125					
Ethylbenzene	18.46	1.0	20	0	92.3	75-125					
Xylenes, Total	56.37	3.0	60	0	94	75-125					
<i>Surr: 4-Bromofluorobenzene</i>	24.28	1.0	30	0	80.9	75-129	0				
<i>Surr: Trifluorotoluene</i>	26.59	1.0	30	0	88.6	75-130	0				

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Animas Environmental Services

QC BATCH REPORT

Work Order: 14030737

Project: Lateral 6C Pipeline Release

Batch ID: **R163224**

Instrument ID **BTEX1**

Method: **SW8021B**

MSD		Sample ID: 14030720-21AMSD			Units: µg/L			Analysis Date: 3/20/2014 10:17 PM		
Client ID:		Run ID: BTEX1_140320B			SeqNo: 3572911		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
m,p-Xylene	37.51	2.0	40	0	93.8	75-125	37.18	0.881	20	
o-Xylene	19.32	1.0	20	0	96.6	75-125	19.19	0.691	20	
Benzene	18.38	1.0	20	0	91.9	75-126	18.43	0.298	20	
Toluene	18.26	1.0	20	0	91.3	75-125	18.29	0.127	20	
Ethylbenzene	18.53	1.0	20	0	92.7	76-125	18.46	0.377	20	
Xylenes, Total	56.84	3.0	60	0	94.7	75-125	56.37	0.816	20	
<i>Surr: 4-Bromofluorobenzene</i>	25.21	1.0	30	0	84	75-129	24.28	3.73	20	
<i>Surr: Trifluorotoluene</i>	26.7	1.0	30	0	89	75-130	26.59	0.402	20	

The following samples were analyzed in this batch:

14030737-01A	14030737-02A	14030737-03A	14030737-04A
14030737-05A	14030737-06A	14030737-07A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Animas Environmental Services

QC BATCH REPORT

Work Order: 14030737

Project: Lateral 6C Pipeline Release

Batch ID: R163256 Instrument ID BTEX1 Method: SW8021B

MBLK		Sample ID: BBLKW1-140321-R163256			Units: µg/L			Analysis Date: 3/21/2014 11:33 AM		
Client ID:		Run ID: BTEX1_140321A			SeqNo:3573626			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
m,p-Xylene	ND	2.0								
o-Xylene	ND	1.0								
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	24.54	1.0	30	0	81.8	75-129	0			
Surr: Trifluorotoluene	26.4	1.0	30	0	88	75-130	0			

LCS		Sample ID: BLCSS1-140321-R163256			Units: µg/L			Analysis Date: 3/21/2014 10:59 AM		
Client ID:		Run ID: BTEX1_140321A			SeqNo:3573625			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
m,p-Xylene	38.18	2.0	40	0	95.4	75-125				
o-Xylene	19.02	1.0	20	0	95.1	75-125				
Benzene	18.89	1.0	20	0	94.5	75-126				
Toluene	18.77	1.0	20	0	93.8	75-125				
Ethylbenzene	18.83	1.0	20	0	94.2	75-125				
Xylenes, Total	57.2	3.0	60	0	95.3	75-125				
Surr: 4-Bromofluorobenzene	25.48	1.0	30	0	84.9	75-129	0			
Surr: Trifluorotoluene	26.84	1.0	30	0	89.5	75-130	0			

MS		Sample ID: 14030793-01AMS			Units: µg/L			Analysis Date: 3/21/2014 12:35 PM		
Client ID:		Run ID: BTEX1_140321A			SeqNo:3573628			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
m,p-Xylene	39.99	2.0	40	0	100	75-125				
o-Xylene	19.82	1.0	20	0	99.1	75-125				
Benzene	19.76	1.0	20	0	98.8	75-126				
Toluene	19.6	1.0	20	0	98	75-125				
Ethylbenzene	19.71	1.0	20	0	98.6	75-125				
Xylenes, Total	59.81	3.0	60	0	99.7	75-125				
Surr: 4-Bromofluorobenzene	27.78	1.0	30	0	92.6	75-129	0			
Surr: Trifluorotoluene	28.69	1.0	30	0	95.6	75-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Animas Environmental Services

QC BATCH REPORT

Work Order: 14030737

Project: Lateral 6C Pipeline Release

Batch ID: R163256

Instrument ID BTEX1

Method: SW8021B

MSD	Sample ID: 14030793-01AMSD	Units: µg/L					Analysis Date: 3/21/2014 12:52 PM				
Client ID:	Run ID: BTEX1_140321A	SeqNo:3573629			Prep Date:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
m,p-Xylene	39.38	2.0	40	0	98.5	75-125	39.99	1.53	20		
o-Xylene	19.67	1.0	20	0	98.3	75-125	19.82	0.782	20		
Benzene	19.45	1.0	20	0	97.3	75-126	19.76	1.58	20		
Toluene	19.23	1.0	20	0	96.1	75-125	19.6	1.91	20		
Ethylbenzene	19.31	1.0	20	0	96.6	76-125	19.71	2.06	20		
Xylenes, Total	59.05	3.0	60	0	98.4	75-125	59.81	1.28	20		
Surr: 4-Bromofluorobenzene	28.11	1.0	30	0	93.7	75-129	27.78	1.15	20		
Surr: Trifluorotoluene	29.08	1.0	30	0	96.9	75-130	28.69	1.34	20		

The following samples were analyzed in this batch:

14030737-01A	14030737-02A	14030737-05A	14030737-08A
14030737-09A	14030737-10A	14030737-11A	14030737-13A
14030737-14A			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Animas Environmental Services

QC BATCH REPORT

Work Order: 14030737

Project: Lateral 6C Pipeline Release

Batch ID: R163335 Instrument ID BTEX1 Method: SW8021B

MBLK		Sample ID: BBLKW1-140324-R163335			Units: µg/L		Analysis Date: 3/24/2014 10:41 AM			
Client ID:		Run ID: BTEX1_140324A			SeqNo:3575168		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
m,p-Xylene	ND	2.0								
o-Xylene	ND	1.0								
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	29.52	1.0	30	0	98.4	75-129	0			
Surr: Trifluorotoluene	28.45	1.0	30	0	94.8	75-130	0			

LCS		Sample ID: BLCSS1-140324-R163335			Units: µg/L		Analysis Date: 3/24/2014 10:06 AM			
Client ID:		Run ID: BTEX1_140324A			SeqNo:3575167		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
m,p-Xylene	38.04	2.0	40	0	95.1	75-125				
o-Xylene	18.89	1.0	20	0	94.4	75-125				
Benzene	18.69	1.0	20	0	93.5	75-126				
Toluene	18.48	1.0	20	0	92.4	75-125				
Ethylbenzene	18.63	1.0	20	0	93.1	75-125				
Xylenes, Total	56.92	3.0	60	0	94.9	75-125				
Surr: 4-Bromofluorobenzene	28.3	1.0	30	0	94.3	75-129	0			
Surr: Trifluorotoluene	28.57	1.0	30	0	95.2	75-130	0			

MS		Sample ID: 14030737-12AMS			Units: µg/L		Analysis Date: 3/24/2014 11:19 AM			
Client ID: MW-13		Run ID: BTEX1_140324A			SeqNo:3575170		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
m,p-Xylene	41.18	2.0	40	2.288	97.2	75-125				
o-Xylene	19.85	1.0	20	0	99.2	75-125				
Benzene	20.09	1.0	20	0	100	75-126				
Toluene	20.58	1.0	20	0	103	75-125				
Ethylbenzene	19.94	1.0	20	0	99.7	75-125				
Xylenes, Total	61.03	3.0	60	2.288	97.9	75-125				
Surr: 4-Bromofluorobenzene	29.1	1.0	30	0	97	75-129	0			
Surr: Trifluorotoluene	27.93	1.0	30	0	93.1	75-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Animas Environmental Services

QC BATCH REPORT

Work Order: 14030737

Project: Lateral 6C Pipeline Release

Batch ID: R163335

Instrument ID BTEX1

Method: SW8021B

MSD Sample ID: 14030737-12AMSD Units: µg/L Analysis Date: 3/24/2014 11:36 AM

Client ID: MW-13

Run ID: BTEX1_140324A

SeqNo:3575171

Prep Date:

DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
m,p-Xylene	41.13	2.0	40	2.288	97.1	75-125	41.18	0.121	20	
o-Xylene	20.01	1.0	20	0	100	75-125	19.85	0.794	20	
Benzene	20.07	1.0	20	0	100	75-126	20.09	0.097	20	
Toluene	20.44	1.0	20	0	102	75-125	20.58	0.67	20	
Ethylbenzene	19.67	1.0	20	0	98.3	76-125	19.94	1.36	20	
Xylenes, Total	61.14	3.0	60	2.288	98.1	75-125	61.03	0.177	20	
Surr: 4-Bromofluorobenzene	29.46	1.0	30	0	98.2	75-129	29.1	1.25	20	
Surr: Trifluorotoluene	27.54	1.0	30	0	91.8	75-130	27.93	1.39	20	

The following samples were analyzed in this batch:

14030737-09A	14030737-10A	14030737-12A
--------------	--------------	--------------

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Animas Environmental Services
Project: Lateral 6C Pipeline Release
WorkOrder: 14030737

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

<u>Units Reported</u>	<u>Description</u>
ug/L	Micrograms per Liter

Sample Receipt Checklist

Client Name: ANIMAS ENVIRONMENTAL SER

Date/Time Received: 18-Mar-14 09:09

Work Order: 14030737

Received by: JEM

Checklist completed by [Signature] 19-Mar-14
eSignature Date

Reviewed by: [Signature] 20-Mar-14
eSignature Date

Matrices: water
Carrier name: FedEx Priority Overnight

- Shipping container/cooler in good condition? Yes [checked] No [] Not Present []
Custody seals intact on shipping container/cooler? Yes [checked] No [] Not Present []
Custody seals intact on sample bottles? Yes [] No [] Not Present [checked]
Chain of custody present? Yes [checked] No []
Chain of custody signed when relinquished and received? Yes [checked] No []
Chain of custody agrees with sample labels? Yes [checked] No []
Samples in proper container/bottle? Yes [checked] No []
Sample containers intact? Yes [checked] No []
Sufficient sample volume for indicated test? Yes [checked] No []
All samples received within holding time? Yes [checked] No []
Container/Temp Blank temperature in compliance? Yes [checked] No []

Temperature(s)/Thermometer(s): 1.2 C/1.2 C u/c IR 1
Cooler(s)/Kit(s): 2924
Date/Time sample(s) sent to storage: 3/19 15:00
Water - VOA vials have zero headspace? Yes [checked] No [] No VOA vials submitted []
Water - pH acceptable upon receipt? Yes [checked] No [] N/A []
pH adjusted? Yes [] No [checked] N/A []
pH adjusted by: []

Login Notes: Trip Blank VBLKW141003; TW-1 & TW-2 contain appx 45% sediment

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments: []

CorrectiveAction: []



Cincinnati, OH
+1 513 733 5336
Everett, WA
+1 425 356 2600

Chain of Custody Form

Page 1 of 2

COC ID: 102687

Environmental

Customer Information

Purchase Order: AFE# A13362
Work Order:
Company Name: Animas Environmental Services
Send Report To: Heather Woods
Address: 624 E. Cornanche
City/State/Zip: Farmington, NM 87401
Phone: (505) 564-2281
Fax: (505) 324-2022
e-Mail Address: hwoods@animasenvironmental.com

Project Information

Project Name: Lateral 6C Pipeline Release
Project Number: A BTEX (8021)
Bill To Company: Enterprise Products
Invoice Attn: Farah Ullah
Address: 1100 Louisiana
City/State/Zip: Houston, TX 77002
Phone: (713) 381-4357
Fax:
e-Mail Address: fulah@eprod.com

14030737

ANIMAS ENVIRONMENTAL SERVICES: Animas Environmental Services

Project: Lateral 6C Pipeline Release



No.	Sample Description	Date	Time	Matrix	Pres.	#Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-2	3/14/14	1615	Aq	1	3	X										
2	MW-3		1556	Aq	1	3	X										
3	MW-4		1533	Aq	1	3	X										
4	MW-5		1303	Aq	1	3	X										
5	MW-6		1146	Aq	1	3	X										
6	MW-7		1238	Aq	1	3	X										
7	MW-8		1329	Aq	1	3	X										
8	MW-9		1211	Aq	1	3	X										
9	MW-10		1514	Aq	1	3	X										
10	MW-11		1456	Aq	1	3	X										

Sampler(s) Please Print & Sign: *Jesse Spangue*
 Requisitioned by: *Jesse Spangue*
 Requisitioned by: *Jesse Spangue*
 Logged by (Laboratory): *Jesse Spangue*
 Date: *3/14/14*
 Date: *3/14/14*
 Date: *3/14/14*
 Time: *9:09 3:18 PM*
 Time: *9:09 3:18 PM*
 Time: *9:09 3:18 PM*
 Shipment Method: *FedEx*
 Required Turnaround Time: (Check Box)
 Std 10 Wk Days 5 Wk Days 2 Wk Days 24 Hour
 Other:
 Cooler Temp:
 Cooler ID: *2924*
 QC Package: (Check One Box Below)
 Level II Std QC TRRP CheckList
 Level III Std QC/Raw Data TRRP Level IV
 Level IV SW846/CLP Other / EDD

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.

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+1 513 733 5336

Fort Collins, CO
+1 970 490 1511

Houston, TX
+1 281 530 3656

Spring City, PA
+1 610 948 4903

Middletown, PA
+1 717 944 5541

Salt Lake City, UT
+1 801 266 7700

South Charleston, WV
+1 304 356 3168

York, PA
+1 717 505 5280

Chain of Custody Form

Page 2 of 2

COC ID: 102688

Environmental

ALS Work Order #: 14030734

Customer Information				Project Information				Parameter/Method Request for Analysis											
Purchase Order	AFE# A13362	Project Name	Lateral 6C Pipeline Release	A	BTEX (8021)														
Work Order		Project Number		B															
Company Name	Animas Environmental Services	Bill To Company	Enterprise Products	C															
Send Report To	Heather Woods	Invoice Attn	Farah Ullah	D															
Address	624 E. Comanche	Address	1100 Louisiana	E															
City/State/Zip	Farmington, NM 87401	City/State/Zip	Houston, TX 77002	F															
Phone	(505) 564-2281	Phone	(713) 381-4357	G															
Fax	(505) 324-2022	Fax		H															
e-Mail Address	hwoods@animasenvironmental.com	e-Mail Address	fullah@eprod.com	I															
				J															
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold		
1	MW-12	3/14/14	1400	A ₉	1	3	X												
2	MW-13		1437	A ₉	1	3	X												
3	TW-1		1629	A ₉	1	3	X												
4	TW-2		1634	A ₉	1	3	X												
5																			
6																			
7																			
8																			
9																			
10																			

Sampler(s) Please Print & Sign: Jesse Socolow Date: 3/14/14 Time: 1400 Shipment Method: Fed Ex Required Turnaround Time: (Check Box) Std. 10 Wk. Days 5 Wk. Days 2 Wk. Days 24 Hour Results Due Date:

Relinquished by: Jesse Socolow Date: 3-18-14 Time: 9:09 Notes: 9:09 3-18-14

Relinquished by: Jesse Socolow Date: 3-18-14 Time: 9:09

Logged by (Laboratory): Jesse Socolow Date: 3-18-14 Time: 9:09 Checked by (Laboratory): Jesse Socolow

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₃ 7-Other 8-4°C 9-5035

QC Package: (Check One Box Below) Level II Std QC TRRP Check List Level III Std QC/Raw Data TRRP Level IV Level IV SW846/CLP Other/EDD

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Cooler 2924

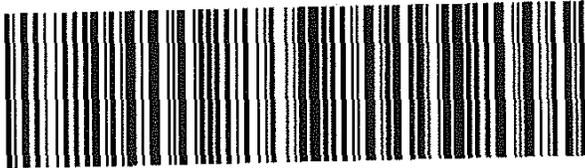
 ALS Environmental 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTOD Date: <u>3/18/14</u> Time: Name: <u>Heather Weber</u> Company: <u>ALS Environmental</u>	Y SEAL	Seal Broken By: <u>[Signature]</u>
		Time: <u>4:33 pm</u> <u>ALS Environmental</u>	Date: <u>3-18-14</u>

 ALS Environmental 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	Y SEAL Time: <u>4:33 pm</u> <u>Environmental</u>	Seal Broken By:
		Date:

TRK# 8042 5199 0062 TUE - 18 MAR A/
STANDARD OVERNIGHT

XH SGRA

77099
TX-US
IAH



968874 17Mar 23:53 MEMH 512C2/1D50/CF60



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

September 16, 2014

Brent Everett

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

RE: Trunk 6-C

OrderNo.: 1409436

Dear Brent Everett:

Hall Environmental Analysis Laboratory received 13 sample(s) on 9/10/2014 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.

Analytical Report

Lab Order 1409436

Date Reported: 9/16/2014

CLIENT: Animas Environmental Services

Client Sample ID: MW-9

Project: Trunk 6-C

Collection Date: 9/9/2014 8:25:00 AM

Lab ID: 1409436-001

Matrix: AQUEOUS

Received Date: 9/10/2014 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	2.0		µg/L	2	9/10/2014 5:51:08 PM	R21136
Toluene	ND	2.0		µg/L	2	9/10/2014 5:51:08 PM	R21136
Ethylbenzene	ND	2.0		µg/L	2	9/10/2014 5:51:08 PM	R21136
Xylenes, Total	ND	4.0		µg/L	2	9/10/2014 5:51:08 PM	R21136
Surr: 4-Bromofluorobenzene	98.2	66.6-167		%REC	2	9/10/2014 5:51:08 PM	R21136

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.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1409436

Date Reported: 9/16/2014

CLIENT: Animas Environmental Services

Client Sample ID: MW-10

Project: Trunk 6-C

Collection Date: 9/9/2014 11:38:00 AM

Lab ID: 1409436-002

Matrix: AQUEOUS

Received Date: 9/10/2014 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	580	10		µg/L	10	9/12/2014 12:42:09 PM	R21183
Toluene	ND	10		µg/L	10	9/12/2014 12:42:09 PM	R21183
Ethylbenzene	34	10		µg/L	10	9/12/2014 12:42:09 PM	R21183
Xylenes, Total	ND	20		µg/L	10	9/12/2014 12:42:09 PM	R21183
Surr: 4-Bromofluorobenzene	98.3	66.6-167		%REC	10	9/12/2014 12:42:09 PM	R21183

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	Page 2 of 15
	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.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1409436

Date Reported: 9/16/2014

CLIENT: Animas Environmental Services

Client Sample ID: MW-6

Project: Trunk 6-C

Collection Date: 9/9/2014 9:05:00 AM

Lab ID: 1409436-003

Matrix: AQUEOUS

Received Date: 9/10/2014 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	5.0		µg/L	5	9/11/2014 4:32:51 PM	R21162
Toluene	ND	5.0		µg/L	5	9/11/2014 4:32:51 PM	R21162
Ethylbenzene	49	5.0		µg/L	5	9/11/2014 4:32:51 PM	R21162
Xylenes, Total	400	10		µg/L	5	9/11/2014 4:32:51 PM	R21162
Surr: 4-Bromofluorobenzene	115	66.6-167		%REC	5	9/11/2014 4:32:51 PM	R21162

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	Page 3 of 15
	O RSD is greater than RSDlimit	P Sample pH greater than 2.	
	R RPD outside accepted recovery limits	RL Reporting Detection Limit	
	S Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1409436

Date Reported: 9/16/2014

CLIENT: Animas Environmental Services

Client Sample ID: MW-4

Project: Trunk 6-C

Collection Date: 9/9/2014 10:39:00 AM

Lab ID: 1409436-004

Matrix: AQUEOUS

Received Date: 9/10/2014 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	2.0		µg/L	2	9/10/2014 10:22:43 PM	R21136
Toluene	ND	2.0		µg/L	2	9/10/2014 10:22:43 PM	R21136
Ethylbenzene	ND	2.0		µg/L	2	9/10/2014 10:22:43 PM	R21136
Xylenes, Total	ND	4.0		µg/L	2	9/10/2014 10:22:43 PM	R21136
Surr: 4-Bromofluorobenzene	98.8	66.6-167		%REC	2	9/10/2014 10:22:43 PM	R21136

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	Page 4 of 15
	O RSD is greater than RSDlimit	P Sample pH greater than 2.	
	R RPD outside accepted recovery limits	RL Reporting Detection Limit	
	S Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1409436

Date Reported: 9/16/2014

CLIENT: Animas Environmental Services

Client Sample ID: MW-12

Project: Trunk 6-C

Collection Date: 9/9/2014 10:56:00 AM

Lab ID: 1409436-005

Matrix: AQUEOUS

Received Date: 9/10/2014 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	2.0		µg/L	2	9/10/2014 10:52:55 PM	R21136
Toluene	ND	2.0		µg/L	2	9/10/2014 10:52:55 PM	R21136
Ethylbenzene	ND	2.0		µg/L	2	9/10/2014 10:52:55 PM	R21136
Xylenes, Total	ND	4.0		µg/L	2	9/10/2014 10:52:55 PM	R21136
Surr: 4-Bromofluorobenzene	96.9	66.6-167		%REC	2	9/10/2014 10:52:55 PM	R21136

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.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1409436

Date Reported: 9/16/2014

CLIENT: Animas Environmental Services

Client Sample ID: MW-11

Project: Trunk 6-C

Collection Date: 9/9/2014 11:13:00 AM

Lab ID: 1409436-006

Matrix: AQUEOUS

Received Date: 9/10/2014 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	2.0		µg/L	2	9/10/2014 11:22:59 PM	R21136
Toluene	ND	2.0		µg/L	2	9/10/2014 11:22:59 PM	R21136
Ethylbenzene	ND	2.0		µg/L	2	9/10/2014 11:22:59 PM	R21136
Xylenes, Total	ND	4.0		µg/L	2	9/10/2014 11:22:59 PM	R21136
Surr: 4-Bromofluorobenzene	98.8	66.6-167		%REC	2	9/10/2014 11:22:59 PM	R21136

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.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1409436

Date Reported: 9/16/2014

CLIENT: Animas Environmental Services

Client Sample ID: MW-7

Project: Trunk 6-C

Collection Date: 9/9/2014 9:24:00 AM

Lab ID: 1409436-007

Matrix: AQUEOUS

Received Date: 9/10/2014 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	1.0		µg/L	1	9/11/2014 5:03:00 PM	R21162
Toluene	ND	1.0		µg/L	1	9/11/2014 5:03:00 PM	R21162
Ethylbenzene	ND	1.0		µg/L	1	9/11/2014 5:03:00 PM	R21162
Xylenes, Total	ND	2.0		µg/L	1	9/11/2014 5:03:00 PM	R21162
Surr: 4-Bromofluorobenzene	106	66.6-167		%REC	1	9/11/2014 5:03:00 PM	R21162

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.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1409436

Date Reported: 9/16/2014

CLIENT: Animas Environmental Services

Client Sample ID: MW-1

Project: Trunk 6-C

Collection Date: 9/9/2014 10:21:00 AM

Lab ID: 1409436-008

Matrix: AQUEOUS

Received Date: 9/10/2014 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	1900	50		µg/L	50	9/11/2014 12:23:21 AM	R21136
Toluene	440	50		µg/L	50	9/11/2014 12:23:21 AM	R21136
Ethylbenzene	54	50		µg/L	50	9/11/2014 12:23:21 AM	R21136
Xylenes, Total	400	100		µg/L	50	9/11/2014 12:23:21 AM	R21136
Surr: 4-Bromofluorobenzene	102	66.6-167		%REC	50	9/11/2014 12:23:21 AM	R21136

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	Page 8 of 15
	O RSD is greater than RSDlimit	P Sample pH greater than 2.	
	R RPD outside accepted recovery limits	RL Reporting Detection Limit	
	S Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1409436

Date Reported: 9/16/2014

CLIENT: Animas Environmental Services

Client Sample ID: MW-2

Project: Trunk 6-C

Collection Date: 9/9/2014 9:41:00 AM

Lab ID: 1409436-009

Matrix: AQUEOUS

Received Date: 9/10/2014 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	78	2.0		µg/L	2	9/11/2014 12:53:27 AM	R21136
Toluene	76	2.0		µg/L	2	9/11/2014 12:53:27 AM	R21136
Ethylbenzene	2.9	2.0		µg/L	2	9/11/2014 12:53:27 AM	R21136
Xylenes, Total	110	4.0		µg/L	2	9/11/2014 12:53:27 AM	R21136
Surr: 4-Bromofluorobenzene	109	66.6-167		%REC	2	9/11/2014 12:53:27 AM	R21136

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	Page 9 of 15
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1409436

Date Reported: 9/16/2014

CLIENT: Animas Environmental Services

Client Sample ID: MW-3

Project: Trunk 6-C

Collection Date: 9/9/2014 9:58:00 AM

Lab ID: 1409436-010

Matrix: AQUEOUS

Received Date: 9/10/2014 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	2.5	1.0		µg/L	1	9/11/2014 1:23:40 AM	R21136
Toluene	1.7	1.0		µg/L	1	9/11/2014 1:23:40 AM	R21136
Ethylbenzene	ND	1.0		µg/L	1	9/11/2014 1:23:40 AM	R21136
Xylenes, Total	3.3	2.0		µg/L	1	9/11/2014 1:23:40 AM	R21136
Surr: 4-Bromofluorobenzene	103	66.6-167		%REC	1	9/11/2014 1:23:40 AM	R21136

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.
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S Spike Recovery outside accepted recovery limits	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1409436

Date Reported: 9/16/2014

CLIENT: Animas Environmental Services

Client Sample ID: MW-5

Project: Trunk 6-C

Collection Date: 9/9/2014 8:49:00 AM

Lab ID: 1409436-011

Matrix: AQUEOUS

Received Date: 9/10/2014 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	1.0		µg/L	1	9/11/2014 1:53:50 AM	R21136
Toluene	ND	1.0		µg/L	1	9/11/2014 1:53:50 AM	R21136
Ethylbenzene	ND	1.0		µg/L	1	9/11/2014 1:53:50 AM	R21136
Xylenes, Total	ND	2.0		µg/L	1	9/11/2014 1:53:50 AM	R21136
Surr: 4-Bromofluorobenzene	99.9	66.6-167		%REC	1	9/11/2014 1:53:50 AM	R21136

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.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1409436

Date Reported: 9/16/2014

CLIENT: Animas Environmental Services

Client Sample ID: MW-13

Project: Trunk 6-C

Collection Date: 9/9/2014 1:43:00 PM

Lab ID: 1409436-012

Matrix: AQUEOUS

Received Date: 9/10/2014 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	2.0		µg/L	2	9/11/2014 2:24:05 AM	R21136
Toluene	ND	2.0		µg/L	2	9/11/2014 2:24:05 AM	R21136
Ethylbenzene	ND	2.0		µg/L	2	9/11/2014 2:24:05 AM	R21136
Xylenes, Total	ND	4.0		µg/L	2	9/11/2014 2:24:05 AM	R21136
Surr: 4-Bromofluorobenzene	102	66.6-167		%REC	2	9/11/2014 2:24:05 AM	R21136

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.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1409436

Date Reported: 9/16/2014

CLIENT: Animas Environmental Services

Client Sample ID: TRIP BLANK

Project: Trunk 6-C

Collection Date:

Lab ID: 1409436-013

Matrix: TRIP BLANK

Received Date: 9/10/2014 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	1.0		µg/L	1	9/11/2014 5:33:13 PM	R21162
Toluene	ND	1.0		µg/L	1	9/11/2014 5:33:13 PM	R21162
Ethylbenzene	ND	1.0		µg/L	1	9/11/2014 5:33:13 PM	R21162
Xylenes, Total	ND	2.0		µg/L	1	9/11/2014 5:33:13 PM	R21162
Surr: 4-Bromofluorobenzene	101	66.6-167		%REC	1	9/11/2014 5:33:13 PM	R21162

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.
	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#: 1409436

16-Sep-14

Client: Animas Environmental Services

Project: Trunk 6-C

Sample ID 5ML RB	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBW	Batch ID: R21136		RunNo: 21136							
Prep Date:	Analysis Date: 9/10/2014		SeqNo: 615390		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	20		20.00		99.6	66.6	167			

Sample ID 100NG BTEX LCS	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSW	Batch ID: R21136		RunNo: 21136							
Prep Date:	Analysis Date: 9/10/2014		SeqNo: 615391		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	99.0	80	120			
Toluene	20	1.0	20.00	0	98.8	80	120			
Ethylbenzene	20	1.0	20.00	0	98.0	80	120			
Xylenes, Total	62	2.0	60.00	0	103	80	120			
Surr: 4-Bromofluorobenzene	21		20.00		104	66.6	167			

Sample ID 1409436-001AMS	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: MW-9	Batch ID: R21136		RunNo: 21136							
Prep Date:	Analysis Date: 9/10/2014		SeqNo: 615401		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	38	2.0	40.00	0	94.4	80	120			
Toluene	38	2.0	40.00	0	94.2	80	120			
Ethylbenzene	38	2.0	40.00	0	96.2	79.7	126			
Xylenes, Total	120	4.0	120.0	0	101	80	120			
Surr: 4-Bromofluorobenzene	42		40.00		104	66.6	167			

Sample ID 1409436-001AMSD	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: MW-9	Batch ID: R21136		RunNo: 21136							
Prep Date:	Analysis Date: 9/10/2014		SeqNo: 615402		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	38	2.0	40.00	0	95.8	80	120	1.49	20	
Toluene	38	2.0	40.00	0	95.9	80	120	1.83	20	
Ethylbenzene	38	2.0	40.00	0	95.7	79.7	126	0.563	20	
Xylenes, Total	120	4.0	120.0	0	99.9	80	120	0.946	20	
Surr: 4-Bromofluorobenzene	42		40.00		106	66.6	167	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.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1409436

16-Sep-14

Client: Animas Environmental Services

Project: Trunk 6-C

Sample ID 5ML RB	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBW	Batch ID: R21162		RunNo: 21162							
Prep Date:	Analysis Date: 9/11/2014		SeqNo: 616119		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	19		20.00		96.1	66.6	167			

Sample ID 100NG BTEX LCS	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSW	Batch ID: R21162		RunNo: 21162							
Prep Date:	Analysis Date: 9/11/2014		SeqNo: 616120		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	99.5	80	120			
Toluene	20	1.0	20.00	0	99.8	80	120			
Ethylbenzene	20	1.0	20.00	0	99.3	80	120			
Xylenes, Total	61	2.0	60.00	0	102	80	120			
Surr: 4-Bromofluorobenzene	21		20.00		103	66.6	167			

Sample ID 5ML RB	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBW	Batch ID: R21183		RunNo: 21183							
Prep Date:	Analysis Date: 9/12/2014		SeqNo: 616442		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	19		20.00		95.3	66.6	167			

Sample ID 100NG BTEX LCS	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSW	Batch ID: R21183		RunNo: 21183							
Prep Date:	Analysis Date: 9/12/2014		SeqNo: 616443		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	100	80	120			
Toluene	20	1.0	20.00	0	100	80	120			
Ethylbenzene	20	1.0	20.00	0	100	80	120			
Xylenes, Total	62	2.0	60.00	0	104	80	120			
Surr: 4-Bromofluorobenzene	18		20.00		89.9	66.6	167			

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.
- RL Reporting Detection Limit

Sample Log-In Check List

Client Name: Animas Environmental

Work Order Number: 1409436

RcptNo: 1

Received by/date: LM 09/10/14

Logged By: Anne Thorne 9/10/2014 6:30:00 AM *Anne Thorne*

Completed By: Anne Thorne 9/10/2014 *Anne Thorne*

Reviewed By: CS 09/10/14

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	2.1	Good	Yes			

Chain-of-Custody Record

Client: Armas Environmental
 Mailing Address: 604 W. Binion St
Farmington NM 87401
 Phone #: 505-564-2281
 email or Fax#: _____
 QA/QC Package: Level 4 (Full Validation)
 Standard Other _____
 Accreditation
 NELAP Other _____
 EDD (Type) _____

Turn-Around Time:

Standard Rush

Project Name:

Trunk 6-c

Project #:

Project Manager:

Brett Everett

Sampler: L. Leone

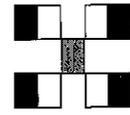
On Ice: Yes No

Sample Temperature: 2.1

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
9/14	0825	H2O	MW-9	3 VOA HCL		1409436
	1138	H2O	MW-10	}	}	-002
	905	H2O	MW-6			-003
	1039		MW-4			-004
	1056		MW-12			-005
	1113		MW-11			-006
	0924		MW-7			-007
	1021		MW-1			-008
	0941		MW-2			-009
	0958		MW-3	-010		
	0849		MW-5	-011		
	1343		MW-13	-012		

Date: 9/14 Time: 1045 Relinquished by: Christina Waele
 Date: 9/14 Time: 1730 Relinquished by: Christina Waele

Received by: Christina Waele Date: 9/14 Time: 1045
 Received by: [Signature] Date: 09/14 Time: 0830



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 + TMBs (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	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 Bubbles (Y or N)
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										

Remarks: