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

ENTERPRISE PRODUCTS OPERATING LLC

June 4, 2013

Return Receipt Requested
7012 1010 0003 7361 4901

Mr. Glenn von Gonten
New Mexico Energy, Minerals & Natural Resources
Department - Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

2013 JUN 10 P 2:28
RECEIVED OOD

**Re: 1st Quarter 2013 Groundwater Monitoring Report
Lateral 6C September 2011 Pipeline Release
NE ¼ SW ¼, Sec 26, T28N, R11W
San Juan County, New Mexico**

Dear Mr. Von Gonten:

Enterprise Field Services, LLC (Enterprise) is submitting the enclosed report entitled: *1st Quarter 2013 Groundwater Monitoring Report, Lateral 6C September 2011 Pipeline Release*, dated May 13, 2013. This report documents the results of the March 2013 groundwater monitoring and sampling event at the release site.

During this quarterly event, a total of eight monitor wells (MW-2 through MW-9) were monitored and sampled at the release site. Note that during this sampling event non-aqueous phase liquid (NAPL) was observed for the first time in MW-1 (0.42 feet). Dissolved-phase benzene concentrations exceeding applicable Water Quality Control Commission (WQCC) Groundwater Quality Standards were present in two wells, MW-4 (290 µg/L) and MW-8 (41 µg/L). Also, dissolved-phase xylene concentrations were above the WQCC standard in MW-6 (800 µg/L). Dissolved-phase concentrations of toluene and ethylbenzene were below applicable WQCC standards.

Enterprise is evaluating response actions for the NAPL present in MW-1, and will conduct additional delineation investigations to determine the downgradient extent of the dissolved-phase groundwater plume at MW-8 if concentrations remain above WQCC standards. Dissolved-phase constituent concentrations are decreasing at monitored locations due to natural processes, and Enterprise will provide recommendations for any necessary additional remedial actions following the next routine monitoring event. If you have any questions concerning the enclosed report or recommendations, please do not hesitate to contact me at (713) 381-2286, or via email at: drsmith@eprod.com.

Sincerely,

David R. Smith, P.G.
Sr. Environmental Scientist

Rodney M. Sartor, REM
Sr. Manager, Environmental

/dep

Enclosure – *1st Quarter 2013 Groundwater Monitoring Report, Lateral 6C September 2011 Pipeline Release*

cc: Brandon Powell, New Mexico Oil Conservation Division, Aztec, NM

ec: Mark Kelly, Bureau of Land Management, Farmington, NM
Aaron Dailey, Enterprise Field Services, LLC, Farmington, NM
Animas Environmental Services, LLC, Farmington, NM

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2013 JUN 10 P 2: 21



Animas Environmental Services, LLC

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Farmington, NM 87401
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970-403-3084

May 13, 2013

David Smith
Enterprise Products Operating LLC
1100 Louisiana, Rm 13.037
Houston, Texas 77002-5227

**RE: 1st Quarter 2013 Groundwater Monitoring Report
Enterprise Field Services, LLC
Lateral 6C September 2011 Pipeline Release
NE¼ SW¼, Section 26, T28N, R11W
San Juan County, New Mexico**

Dear Mr. Smith:

Animas Environmental Services, LLC (AES), on behalf of Enterprise Field Services, LLC (Enterprise), has prepared this *1st Quarter 2013 Groundwater Monitoring Report* for the Lateral 6C September 2011 Pipeline Release in accordance with New Mexico Oil Conservation Division (NMOCD) and New Mexico Environment Department (NMED) Ground Water Quality Bureau (GWQB) regulations. This report documents the third consecutive quarterly monitoring and sampling event for the subject release location.

A groundwater investigation was completed September 7, 2012, in accordance with a workplan previously prepared by AES and dated August 3, 2012. The workplan was submitted to the NMOCD for review prior to implementing the proposed scope of work.

1.0 Site Information

1.1 Site Location and NMOCD Ranking

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

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

- **Depth to Groundwater:** Known depth to groundwater is less than 20 feet below ground surface (bgs). (20 points)

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

1.2 Initial Release Assessment and Investigation

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

1.2.1 Initial Release Assessment

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

1.2.2 Release Assessment - October 2011

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

Groundwater samples were collected for laboratory analysis from TP-2 and TP-4. During sample collection, a petroleum sheen was observed in TP-2. Dissolved phase benzene, toluene, and xylene concentrations were reported above the New Mexico Water Quality Control Commission (WQCC) standards in TP-2 with 9,800 µg/L benzene, 15,000 µg/L

toluene, and 6,700 µg/L xylene. Detailed laboratory results were summarized in the AES letter report entitled *Soil and Groundwater Sampling Results* and dated October 28, 2011.

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

1.2.3 Site Investigation - November 2011

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

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

1.2.4 Groundwater Investigation – September 2012

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

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

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

the WQCC standard of 750 µg/L was reported in MW-2 with 1,100 µg/L, and xylene above the WQCC standard of 620 µg/L was reported in MW-1 (650 µg/L), MW-2 (1,800 µg/L), and MW-6 (2,200 µg/L).

1.2.5 Groundwater Monitoring and Sampling – December 2012

Site monitor wells were monitored and sampled by AES on December 20, 2012.

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

2.0 Groundwater Monitoring and Sampling – March 2013

On March 20, 2013, groundwater monitoring and sampling were conducted by AES in MW-1 through MW-9. Work was completed in accordance with the workplan prepared by AES and dated August 3, 2012, and also in accordance with U.S. Environmental Protection Agency (USEPA) Environmental Response Team's Standard Operating Procedures (SOPs) and applicable American Society of Testing and Materials (ASTM) standards.

2.1 Groundwater Measurements and Water Quality

Prior to sample collection, depth to groundwater in each well was measured with a Keck Water Level Indicator, and water quality data was measured with a YSI Water Quality Meter. Water quality measurements were recorded and included pH, temperature, conductivity, dissolved oxygen (DO), and oxidation reduction potential (ORP). Depth to groundwater measurements and water quality data were recorded onto Water Sample Collection forms. Note that 0.42 feet of non-aqueous phase liquid (NAPL) or "free product" was observed for the first time in MW-1 during this sampling event.

Groundwater elevations increased by an average of 0.23 feet across the site, and depths to groundwater were observed to range from 14.63 feet below top of casing (TOC) in MW-8 to 19.10 feet below TOC in MW-5. The groundwater gradient was calculated to be approximately 0.008 foot/foot to the northwest, and groundwater gradient contours are included on Figure 3.

Following depth to water measurement, each well was purged with a 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 13.63°C in MW-3 to 14.88°C in MW-2, and conductivity ranged from 6.700 mS in MW-9 to 8.893 mS in MW-3. DO concentrations were between 0.79 mg/L in MW-6 and 2.62 mg/L in MW-3, and pH ranged from 7.23 in MW-4 to 7.50 in MW-2. Although DO was recorded during field activities, it should be noted that due to the use of bailers,

the accuracy of dissolved oxygen measurements is limited. Depth to groundwater measurements and water quality data are summarized in Table 1. Water Sample Collection forms are presented in the Appendix.

2.2 Groundwater Laboratory Analyses

Groundwater samples were collected with new disposable bailers from a total of eight 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 8260.

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-4 (290 µg/L) and MW-8 (41 µg/L). Dissolved phase xylene concentrations were above the WQCC standard of 620 µg/L in MW-6 with 800 µg/L. Dissolved phase toluene and ethylbenzene concentrations were below the WQCC standard of 750 µg/L in all wells sampled. 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.

3.0 Conclusion and Recommendations

A total of eight monitor wells (MW-2 through MW-9) were monitored and sampled at the Lateral 6C September 2011 pipeline release location by AES on March 20, 2013. Note that during this sampling event NAPL was observed for the first time in MW-1 (0.42 feet).

Laboratory results confirmed dissolved phase benzene concentrations above the WQCC standard of 10 µg/L in two wells, including MW-4 (290 µg/L) and MW-8 (41 µg/L). Also, dissolved phase xylene concentrations were above the WQCC standard of 620 µg/L in MW-6 with 800 µg/L but have decreased over time. Dissolved phase benzene and xylene concentrations decreased in MW-2 to below detection limits since the December 2012 sampling event, but benzene and xylene concentrations rebounded in MW-4 (to 290 µg/L). Dissolved phase toluene and ethylbenzene concentrations were below WQCC standards in all sampled monitor wells.

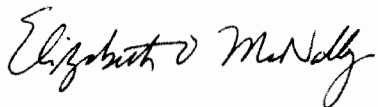
Based on increased groundwater elevations across the site, the newly observed presence of NAPL in MW-1, and laboratory analytical results from the March 2013 sampling event, it is possible that as groundwater elevations have risen, a contaminant lens has been encountered in contaminated soils left onsite. Groundwater continues to be impacted above the WQCC standard for benzene and xylenes. AES recommends continued

monitoring and sampling of site monitor wells on a quarterly basis until enough data has been gathered to determine a corrective action plan. The next groundwater sampling event is tentatively scheduled for June 2013.

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

Sincerely,


Landrea Cupps
Environmental Scientist



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 2013
- Figure 4. Groundwater Contaminant Concentrations, March 2013
- Figure 5. Dissolved Benzene Concentration Contours, March 2013
- Figure 6. Dissolved Xylene Concentration Contours, March 2013

Appendix

- Water Sample Collection Forms
- Groundwater Analytical Laboratory Reports (Hall 1303882)

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

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

Aaron Dailey
Via electronic copy
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614 Reilly Avenue
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Mark Kelly
Via email with delivery confirmation receipt
mkelly@blm.gov
Bureau of Land Management
6251 College Blvd., Suite A
Farmington, New Mexico 87401

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

Well ID	Date	Surveyed TOC (ft)	Depth to NAPL (ft below TOC)	Depth to Water (ft below TOC)	NAPL Thickness (ft)	GW Elev. (ft amsl)	Corrected GW Elev. (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. Temp. (°C)
MW-1	07-Sep-12	5579.73		15.78		5563.95		7.02	5.616	1.72	17.31
MW-1	20-Dec-12	5579.73		15.69		5564.04		7.38	4.567	1.41	16.71
MW-1	20-Mar-13	5579.73	15.31	15.73	0.42	5564.00	5564.30	NA	NA	NA	NA
MW-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-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-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-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-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-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

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

<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. Temp. (°C)</i>
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-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

Notes: NA - not analyzed

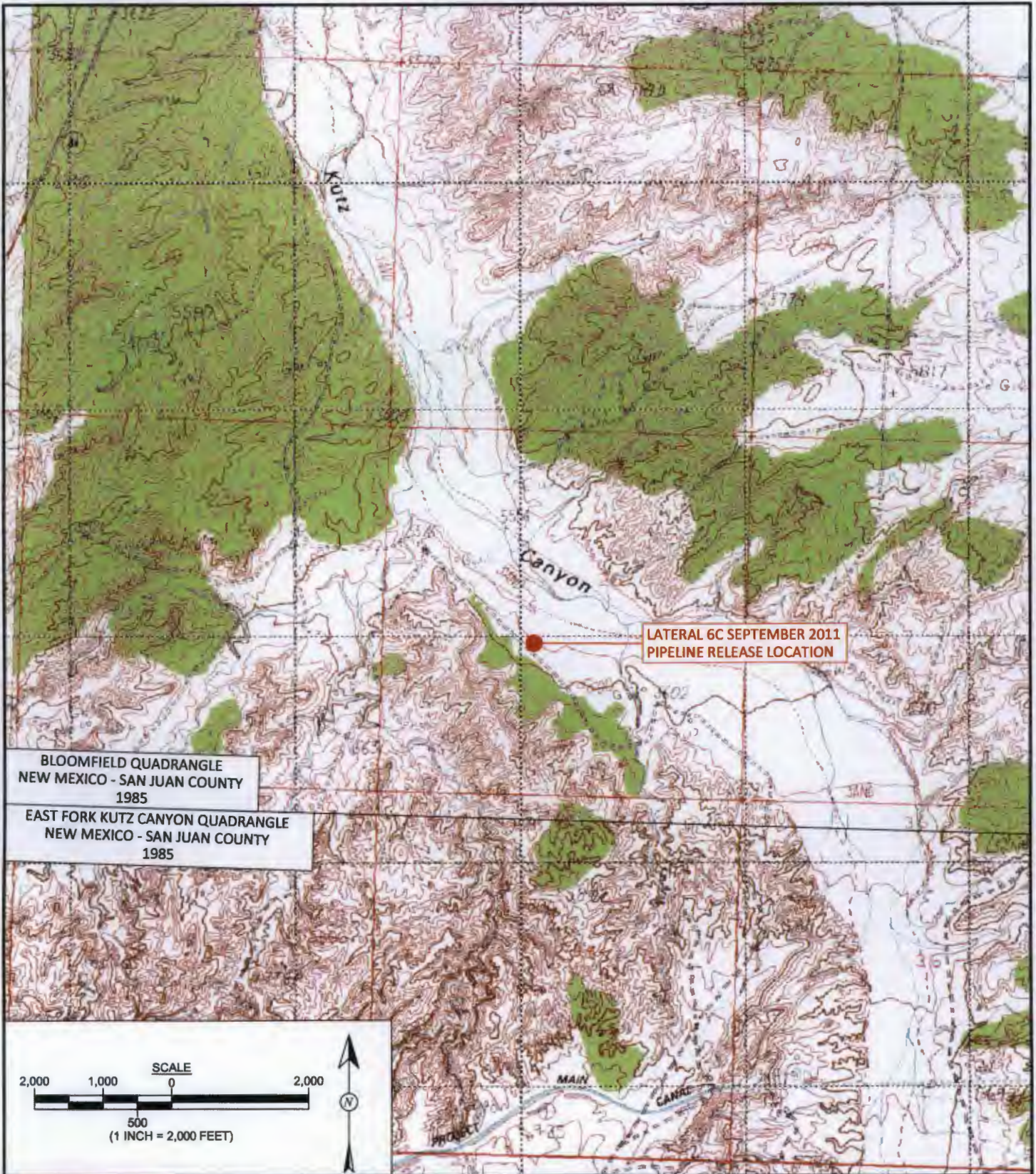
TABLE 2. SUMMARY OF GROUNDWATER LABORATORY ANALYTICALS RESULTS
 Enterprise Field Services, LLC Lateral 6C September 2011 Pipeline Release
 San Juan County, New Mexico

<i>Well ID</i>	<i>Date Sampled</i>	<i>Benzene</i>	<i>Toluene</i>	<i>Ethyl-benzene</i>	<i>Xylenes</i>
		$\mu\text{g/L}$	$\mu\text{g/L}$	$\mu\text{g/L}$	$\mu\text{g/L}$
<i>Sample Method</i>		<i>EPA Method 8021</i>			
<i>WQCC STANDARD</i>		10	750	750	620
MW-1	07-Sep-12	2,200	350	68	650
MW-1	20-Dec-12	1,100	250	37	180
MW-1	20-Mar-13	Free Product Present (0.42 feet)			
MW-2	07-Sep-12	270	1,100	66	1,800
MW-2	20-Dec-12	26	49	5.1	250
MW-2	20-Mar-13	<5.0	<5.0	<5.0	67
MW-3	07-Sep-12	<2.0	<2.0	<2.0	<4.0
MW-3	20-Dec-12	<2.0	<2.0	<2.0	<4.0
MW-3	20-Mar-13	<2.0	<2.0	<2.0	<4.0
MW-4	07-Sep-12	18	5.1	<2.0	<4.0
MW-4	20-Dec-12	<2.0	<2.0	<2.0	<4.0
MW-4	20-Mar-13	290	110	<2.0	15
MW-5	07-Sep-12	<2.0	<2.0	<2.0	<4.0
MW-5	20-Dec-12	<2.0	<2.0	<2.0	<4.0
MW-5	20-Mar-13	<2.0	<2.0	<2.0	<4.0
MW-6	07-Sep-12	<5.0	<5.0	260	2,200
MW-6	20-Dec-12	<5.0	<5.0	180	1,200
MW-6	20-Mar-13	<5.0	<5.0	120	800
MW-7	07-Sep-12	<2.0	<2.0	<2.0	<4.0
MW-7	20-Dec-12	<2.0	<2.0	<2.0	2.4
MW-7	20-Mar-13	<2.0	<2.0	<2.0	<4.0
MW-8	07-Sep-12	41	40	3.8	320
MW-8	20-Dec-12	<2.0	<2.0	<2.0	20
MW-8	20-Mar-13	41	36	<2.0	89
MW-9	07-Sep-12	<2.0	2.4	<2.0	<4.0
MW-9	20-Dec-12	<2.0	<2.0	<2.0	<4.0
MW-9	20-Mar-13	<2.0	<2.0	<2.0	<4.0

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

<i>Well ID</i>	<i>Date Sampled</i>	<i>Benzene</i>	<i>Toluene</i>	<i>Ethyl-benzene</i>	<i>Xylenes</i>
		<i>µg/L</i>	<i>µg/L</i>	<i>µg/L</i>	<i>µg/L</i>
<i>Sample Method</i>		<i>EPA Method 8021</i>			
<i>WQCC STANDARD</i>		<i>10</i>	<i>750</i>	<i>750</i>	<i>620</i>

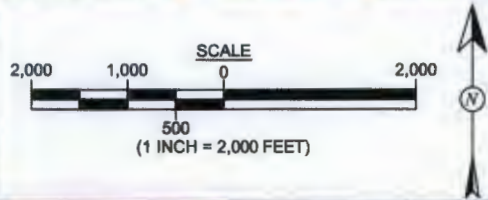
Notes: < µg/L Analyte not detected above listed method limit
 Micrograms per liter (ppb)




LATERAL 6C SEPTEMBER 2011
PIPELINE RELEASE LOCATION

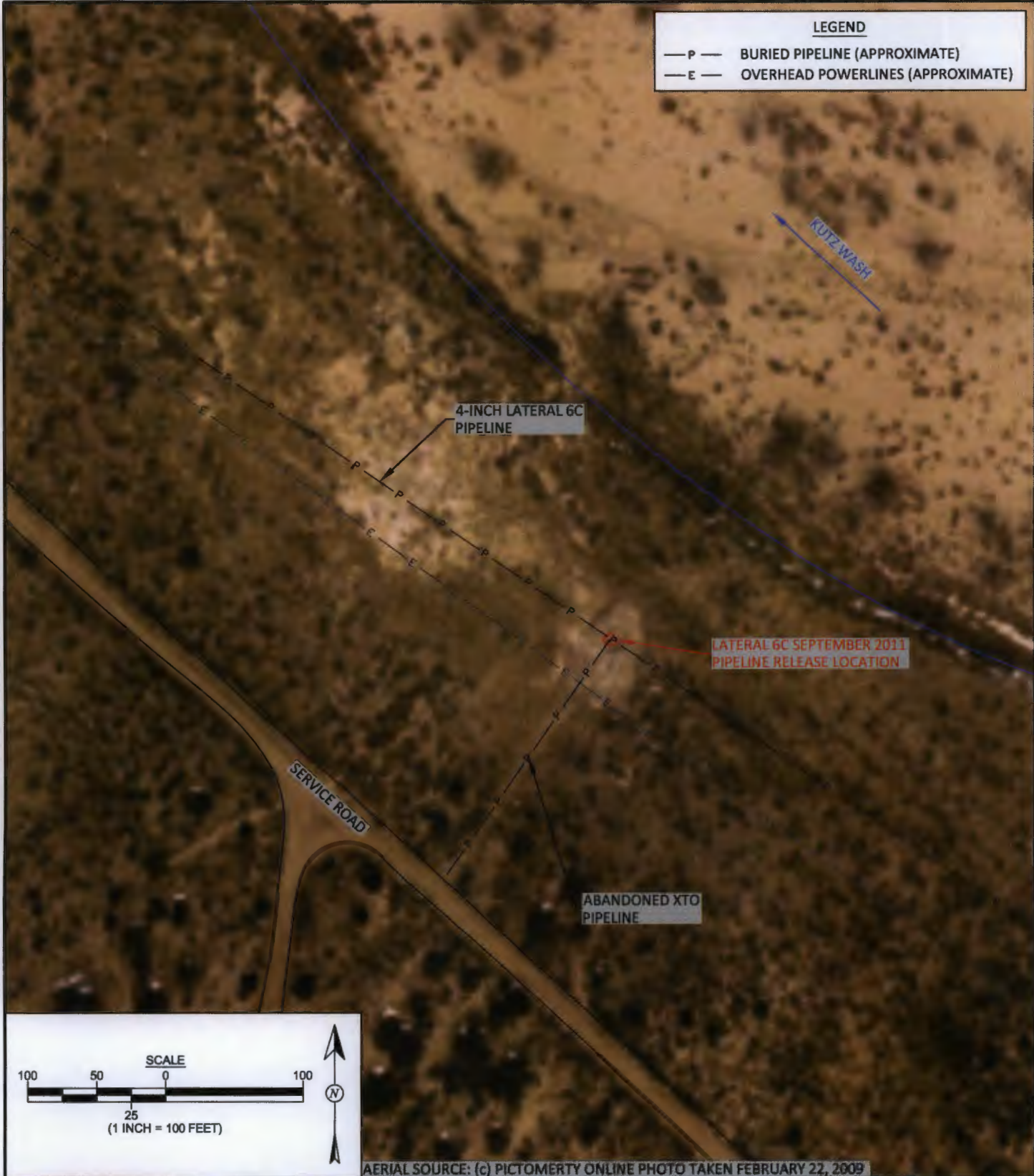
BLOOMFIELD QUADRANGLE
NEW MEXICO - SAN JUAN COUNTY
1985

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



 AES Animas Environmental Services, LLC	DRAWN BY: C. Lameman	DATE DRAWN: September 18, 2012	FIGURE 1 TOPOGRAPHIC SITE LOCATION MAP ENTERPRISE FIELD SERVICES, LLC LATERAL 6C SEPTEMBER 2011 PIPELINE RELEASE SAN JUAN COUNTY, NEW MEXICO NE¼ SW¼, SECTION 26, T28N, R11W N36.63202, W107.97400
	REVISIONS BY: C. Lameman	DATE REVISED: April 2, 2013	
	CHECKED BY: T. Ross	DATE CHECKED: April 2, 2013	
	APPROVED BY: E. McNally	DATE APPROVED: April 2, 2013	

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



AERIAL SOURCE: (c) PICTOMERTY ONLINE PHOTO TAKEN FEBRUARY 22, 2009



Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: September 18, 2012
REVISIONS BY: C. Lameman	DATE REVISED: April 2, 2013
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APPROVED BY: E. McNally	DATE APPROVED: April 2, 2013

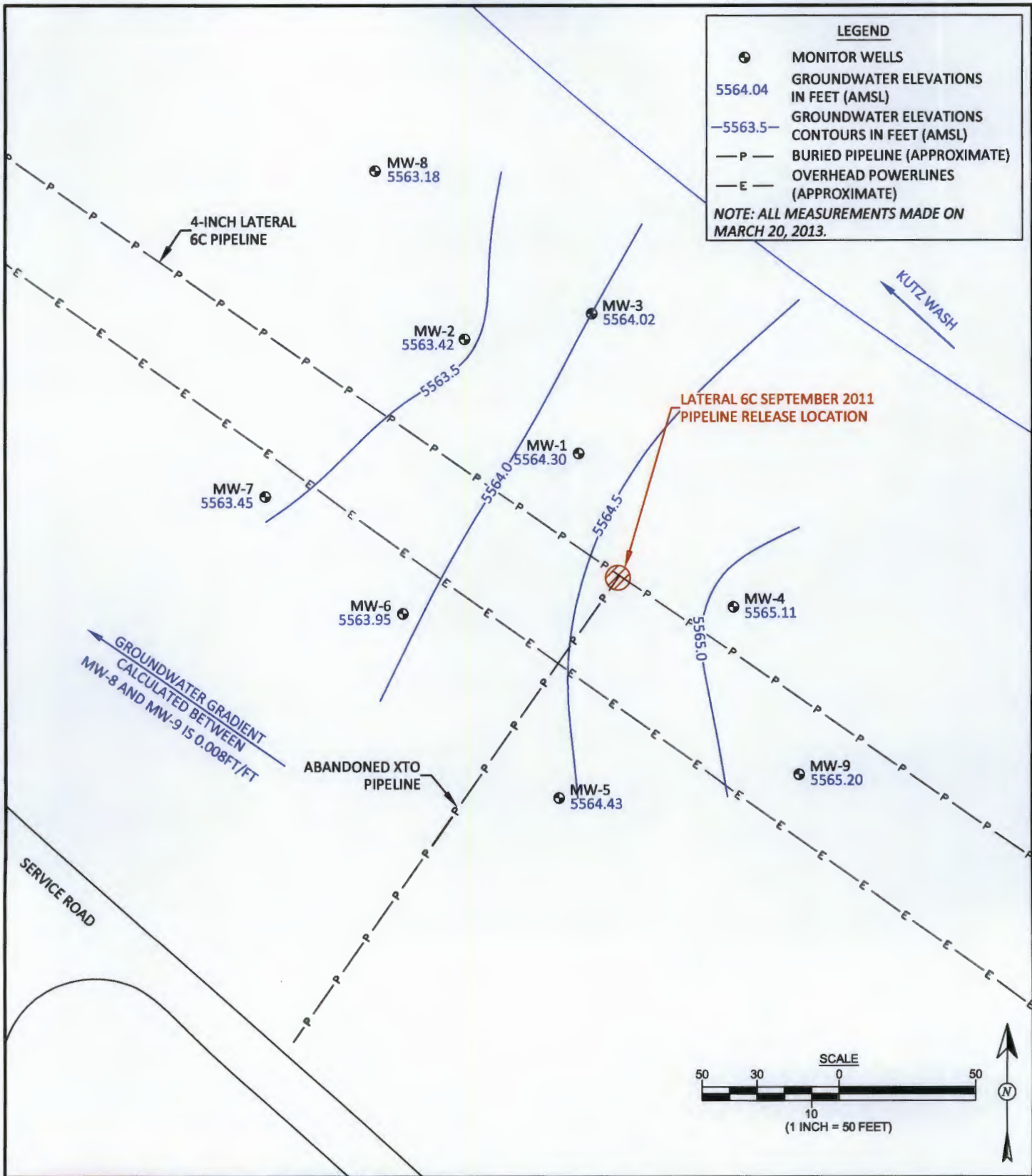
FIGURE 2

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

LEGEND

- MONITOR WELLS
- 5564.04 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 MARCH 20, 2013.



AES
Animas Environmental Services, LLC

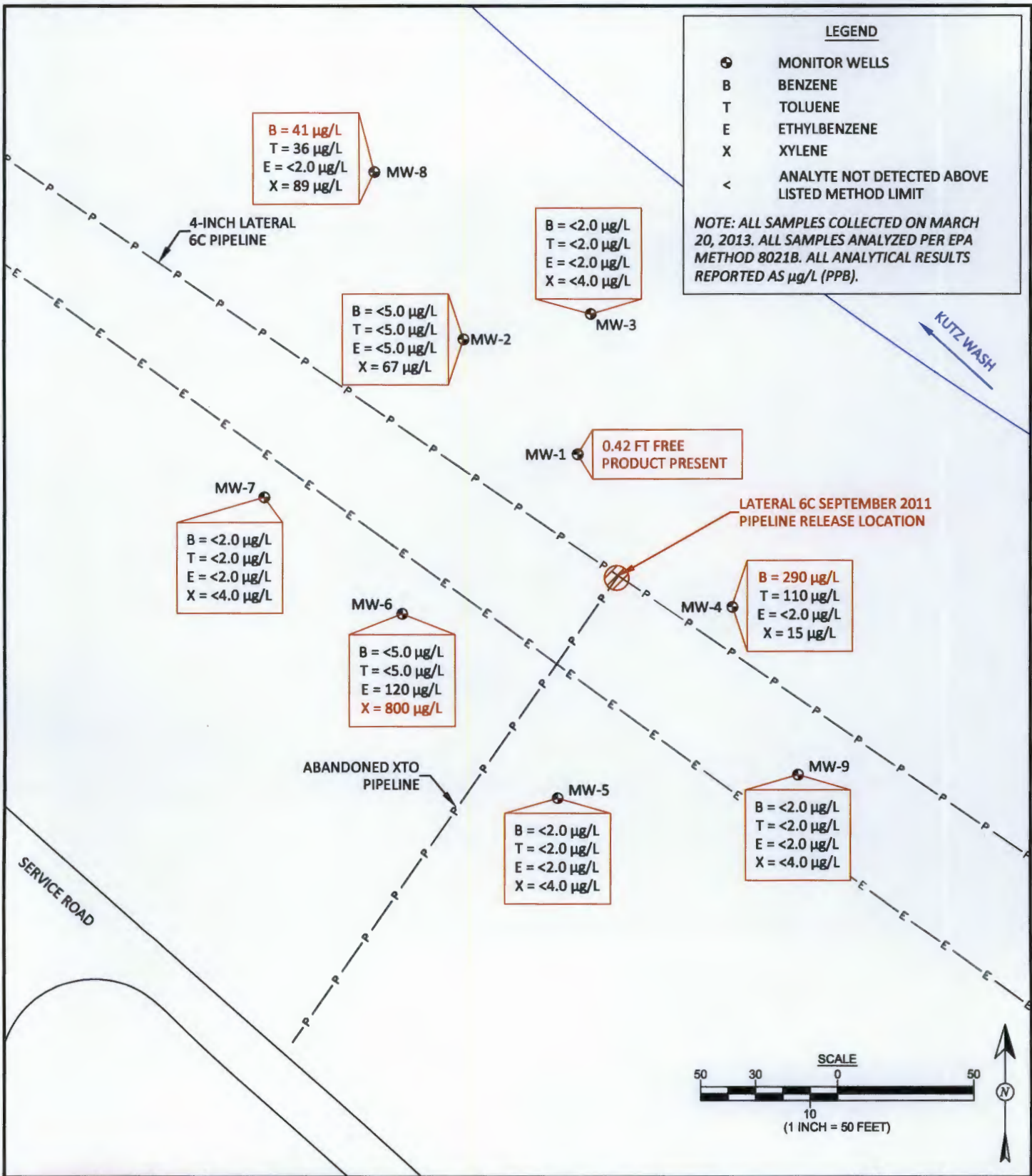
DRAWN BY: C. Lameman	DATE DRAWN: September 18, 2012
REVISIONS BY: C. Lameman	DATE REVISED: April 2, 2013
CHECKED BY: T. Ross	DATE CHECKED: April 2, 2013
APPROVED BY: E. McNally	DATE APPROVED: April 2, 2013

FIGURE 3
GROUNDWATER ELEVATION CONTOURS
MARCH 2013
ENTERPRISE FIELD SERVICES, LLC
LATERAL 6C SEPTEMBER 2011 PIPELINE RELEASE
NE¼ SW¼, SECTION 26, T28N, R11W
SAN JUAN COUNTY, NEW MEXICO
N36.63202, W107.97400

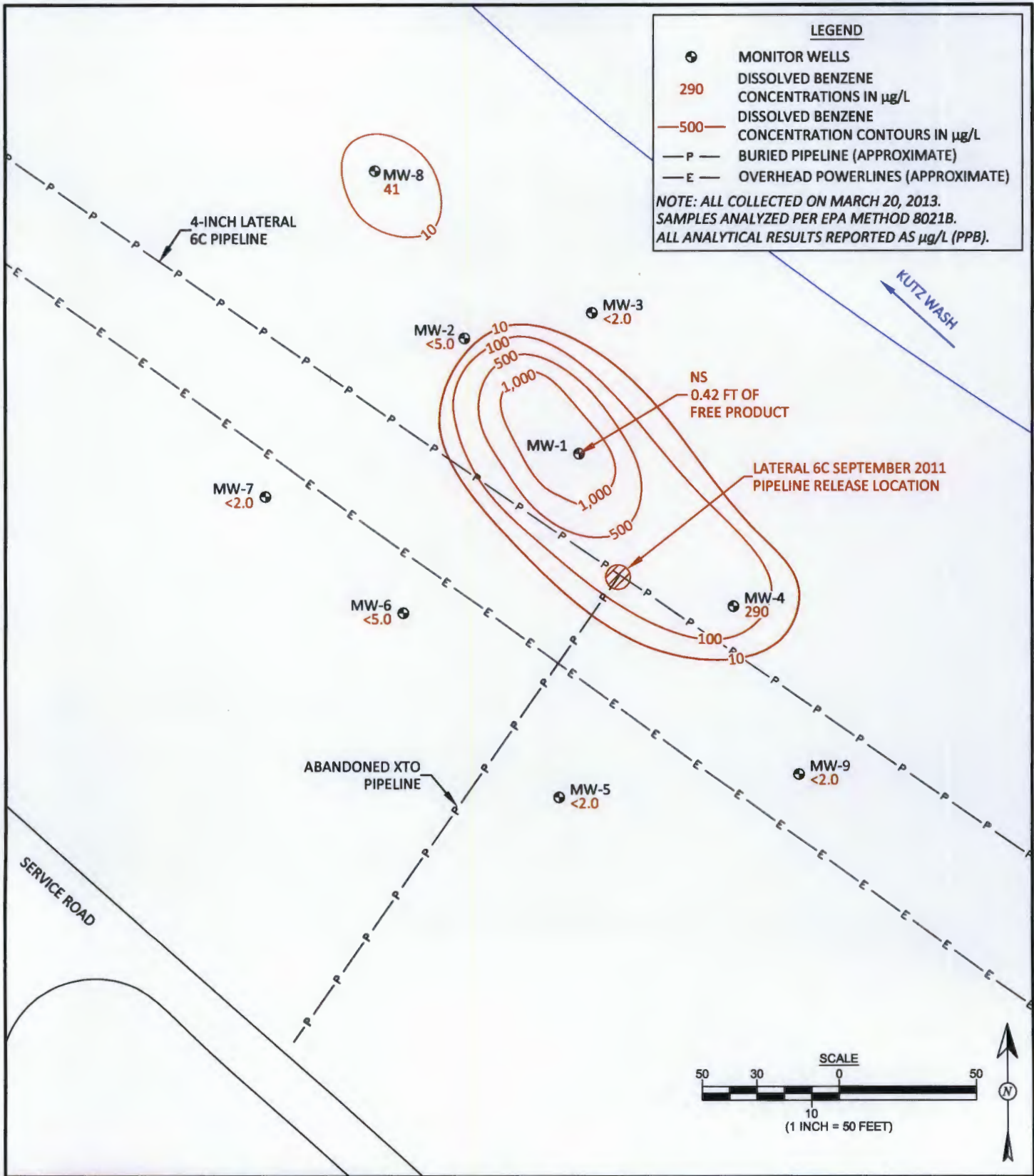
LEGEND

- ⊙ MONITOR WELLS
- B BENZENE
- T TOLUENE
- E ETHYLBENZENE
- X XYLENE
- < ANALYTE NOT DETECTED ABOVE LISTED METHOD LIMIT

NOTE: ALL SAMPLES COLLECTED ON MARCH 20, 2013. ALL SAMPLES ANALYZED PER EPA METHOD 8021B. ALL ANALYTICAL RESULTS REPORTED AS μg/L (PPB).



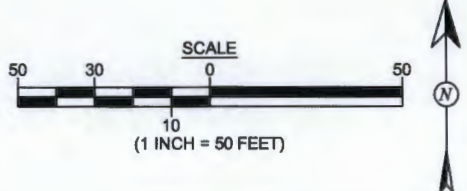
	DRAWN BY: C. Lameman	DATE DRAWN: September 18, 2012	FIGURE 4 GROUNDWATER CONTAMINANT CONCENTRATIONS, MARCH 2013 ENTERPRISE FIELD SERVICES, LLC LATERAL 6C SEPTEMBER 2011 PIPELINE RELEASE NE¼ SW¼, SECTION 26, T28N, R11W SAN JUAN COUNTY, NEW MEXICO N36.63202, W107.97400
	REVISIONS BY: C. Lameman	DATE REVISED: April 2, 2013	
	CHECKED BY: T. Ross	DATE CHECKED: April 2, 2013	
	APPROVED BY: E. McNally	DATE APPROVED: April 2, 2013	



LEGEND

- ⊕ MONITOR WELLS
- 290 DISSOLVED BENZENE CONCENTRATIONS IN µg/L
- 500— DISSOLVED BENZENE CONCENTRATION CONTOURS IN µg/L
- P— BURIED PIPELINE (APPROXIMATE)
- E— OVERHEAD POWERLINES (APPROXIMATE)

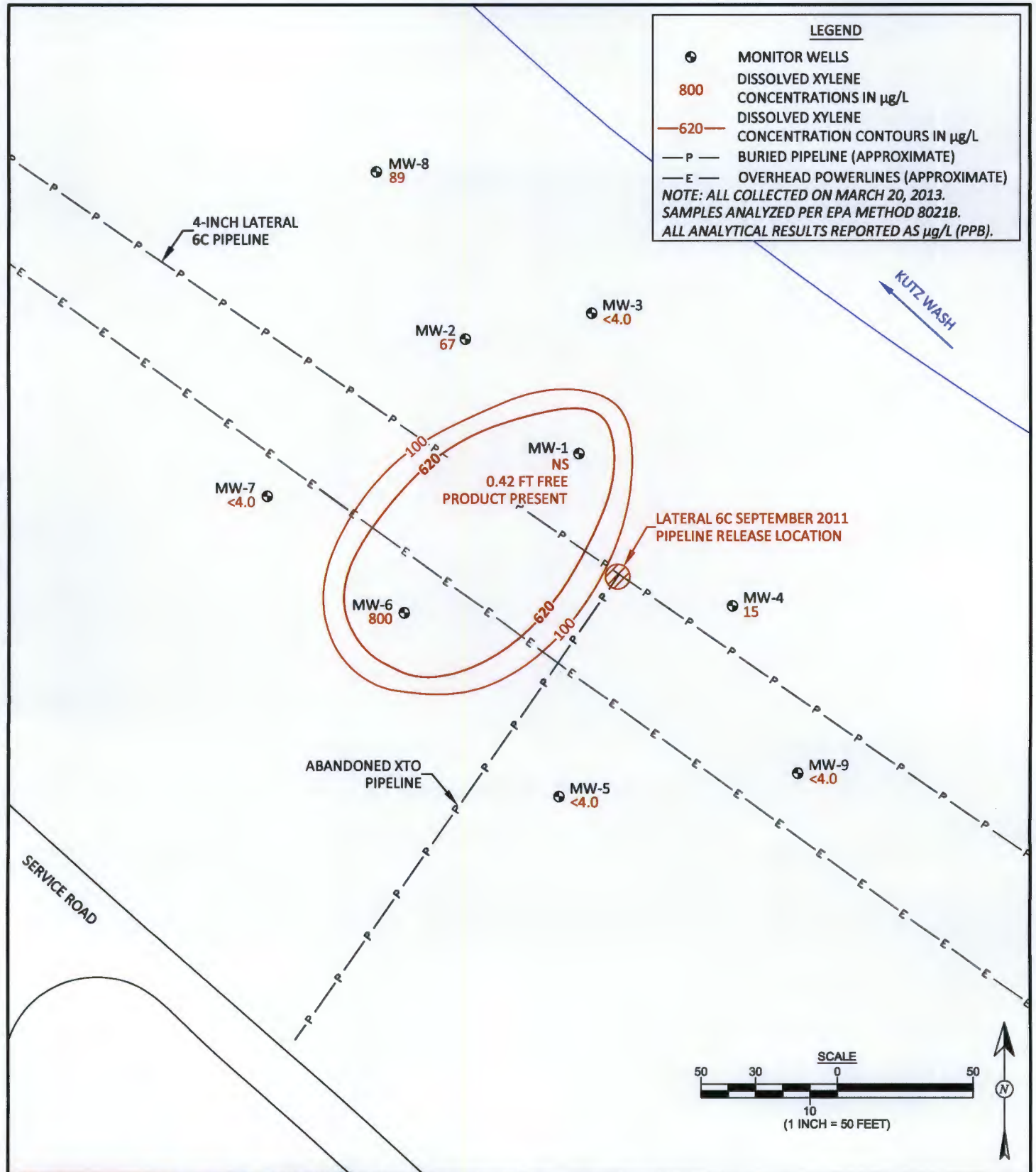
NOTE: ALL COLLECTED ON MARCH 20, 2013.
 SAMPLES ANALYZED PER EPA METHOD 8021B.
 ALL ANALYTICAL RESULTS REPORTED AS µg/L (PPB).



DRAWN BY: C. Lameman	DATE DRAWN: September 18, 2012
REVISIONS BY: C. Lameman	DATE REVISED: April 2, 2013
CHECKED BY: T. Ross	DATE CHECKED: April 2, 2013
APPROVED BY: E. McNally	DATE APPROVED: April 2, 2013

FIGURE 5

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



Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: September 18, 2012
REVISIONS BY: C. Lameman	DATE REVISED: April 2, 2013
CHECKED BY: T. Ross	DATE CHECKED: April 2, 2013
APPROVED BY: E. McNally	DATE APPROVED: April 2, 2013

FIGURE 6

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

DEPTH TO GROUNDWATER
MEASUREMENT FORM

Animas Environmental Services

624 E. Comanche, Farmington NM 87401

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

Project: Groundwater Sampling
Site: Enterprise Field Services, LLC
Location: Lateral 6C
Tech: L. Lamené

Project No.: AES 110904
Date: 3-20-2012
Time: 0831
Form:

Well I.D.	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
MW-9		17.28		24.06 TDW: 32" Above ground well.
MW-5		19.10		25.72 TDW: 29" " " "
MW-4		15.25		23.86 TDW: 30" " Has odor in well.
MW-7		18.79		26.28 TDW: 34" Above ground well.
MW-3		15.50		25.77 TDW: 30" Above ground well.
MW-8		14.63		24.65 TDW: 2' Above ground well
MW-6		18.27		25.20 TDW 30" Above ground well
MW-2		15.97		25.06 TDW 30" " " "
MW-1	15.31	15.73		27.56 TDW 30" " " ". odor

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



Water Sampling Record

Animas Environmental Services

Monitor Well No: /

624 E. Comanche, Farmington NM 87401

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

Project: Groundwater Sampling

Project No.:

Site: Enterprise Lateral 6C

Date: 3/20/2013

Location:

Time: 3

Sampler: LAMON E, L.

Weather: Clear / WARM

Sampling Method: NO SAMPLE (NAPL)

Air Temperature:

Depth of Well (ft): 27.54

Well Diam. (in.): 2

Depth to Water (ft): 15.73 To Product: 15.31 Site Elevation (ft):

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (gallons)	Notes/Observations

Analytical Parameters Sampled For (include Method #):

NO SAMPLE, NAPL

Disposal of Purged Water: N/A

Chain of Custody Record Complete? (Y/N) N/A

Analytical Laboratory: N/A

Equipment Used During Sampling: N/A

Other Notes/Comments

Water Sampling Record

Animas Environmental Services

Monitor Well No: 2

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

Project: Groundwater Sampling
Site: Enterprise Lateral 6C
Location: _____
Sampler: LAMON, L
Sampling Method: Bailer
Depth of Well (ft): 25.06
Depth to Water (ft): 15.97

Project No.: _____
Date: 3/20/2013
Time: 1341 **(357 Sample)**
Weather: clear/cool
Air Temperature: 49° F
Well Diam. (in.): 2
Site Elevation (ft): _____

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (gallons)	Notes/Observations
1345	14.90	6.543	2.66	7.95	-154.2	1 st Bailer	clear/grayish H ₂ O
1347	14.90	6.644	1.88	7.80	-176.5	1.0 gal.	grayish H ₂ O slight sheen
1350	14.91	6.631	1.26	7.69	-200.0	2.0 gal.	gray silt sheen H ₂ O
1353	14.91	6.798	1.46	7.60	-211.0	3.5 gal.	gray silt slight sheen
1357	14.88	6.788	1.06	7.50	-243.1	4.5 gal	gray silt slight sheen & odor

Analytical Parameters Sampled For (include Method #): 8021 BTEX

Disposal of Purged Water: ENVIROTECH LANDFARM

Chain of Custody Record Complete? (Y/N) Y

Analytical Laboratory: H.E.A.L.

Equipment Used During Sampling:

Other Notes/Comments

9.09 H₂O column
1.48 volume
4.50 To be Purged

Water Sampling Record

Animas Environmental Services

Monitor Well No: 3

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

Project: Groundwater Sampling
Site: Enterprise Lateral 6C
Location: _____
Sampler: LAMONE, L.
Sampling Method: BAILER
Depth of Well (ft): 25.77
Depth to Water (ft): 15.50

Project No.: _____
Date: 3/20/2013
Time: 1201 **(1221 SAMPLE)**
Weather: Clear / Cool
Air Temperature: 50°
Well Diam. (in.): 2
Site Elevation (ft): _____

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (gallons)	Notes/Observations
1206	13.82	9.576	4.41	7.65	-44.5	1 st Bailer	Clear
1209	13.44	9.918	3.63	7.46	-26.3	1.0 gal	Lt. Tan H ₂ O
1212	13.42	9.707	3.05	7.38	-18.9	2.0 gal.	Lt Tan H ₂ O
1215	13.53	9.317	3.02	7.36	-14.0	3.0 gal.	Lt Tan H ₂ O
1218	13.47	9.184	3.06	7.35	-10.3	4.0 gal.	Lt Tan H ₂ O
1221	13.63	8.893	2.62	7.33	-6.2	5.0 gal.	Tan/Silt H ₂ O

Analytical Parameters Sampled For (include Method #): 8021 BTEX

Disposal of Purged Water: Into 55 gal. drum / delivered to EnviroTECH LAND FARM

Chain of Custody Record Complete? (Y/N) Y

Analytical Laboratory: HALL Environmental Analytical LAB

Equipment Used During Sampling: Bailer; 45T; Product Probe, twine

Other Notes/Comments

10.27 H₂O Column
1.68 H₂O volume
5.0 To be Purged

Water Sampling Record

Animas Environmental Services

Monitor Well No: 4

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

Project: Ground water SAMPLING
 Site: Enterprise Lateral 6C
 Location: _____
 Sampler: Lamone, L.
 Sampling Method: Boiler
 Depth of Well (ft): 23.86
 Depth to Water (ft): 15.25

Project No.: _____
 Date: 3/20/2013
 Time: 1103 (1121 SAMPLE)
 Weather: cool / clear / breezy
 Air Temperature: 28° F
 Well Diam. (in.): 2
 Site Elevation (ft): _____

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (gallons)	Notes/Observations
1108	13.43	7.986	3.64	7.45	-77.2	1 st Boiler	Clear
1112	13.88	8.272	2.01	7.31	-106.4	1.25 gal.	"Murky" slight silt.
1115	13.80	8.114	1.17	7.27	-105.0	2.25 gal	" " "
1117	13.80	8.127	1.17	7.25	-100.9	3.25 gal	Gray ... silt H2O
1121	14.00	7.897	8.31	7.23	-81.1	4.25 gal	Gray silty H2O

Analytical Parameters Sampled For (include Method #): 8021 BTE

Disposal of Purged Water: ENVIROTECH LAND FARM

Chain of Custody Record Complete? (Y/N) Y

Analytical Laboratory: H.E.A.L.

Equipment Used During Sampling:

Other Notes/Comments

8.61 column
 1.41 column
 4.25 To be purged

Water Sampling Record

Animas Environmental Services

Monitor Well No: 5

624 E. Comanche, Farmington NM 87401

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

Project: Ground water Sampling

Project No.:

Site: Enterprise Lateral 6C

Date: 3/20/2013

Location:

Time: 1035 1053 Sample

Sampler: Lamone, L.

Weather: clear Cool Breezy

Sampling Method: Bailer

Air Temperature: 28°

Depth of Well (ft): 25.72

Well Diam. (in.): 2

Depth to Water (ft): 19.10

Site Elevation (ft):

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (gallons)	Notes/Observations
1044	13.51	6.673	2.14	7.41	-7.7	1 st Bailer	clear H ₂ O
1047	13.77	6.842	1.69	7.30	-6.0	1.25 gal	Tan Some Silt
1050	13.87	6.864	1.95	7.29	-5.1	2.25 gal	Tan " "
1053	13.86	6.957	2.29	7.28	-1.0	3.25 gal	Tan " "

Analytical Parameters Sampled For (include Method #): 8021 BTEX

Disposal of Purged Water: ENVIROTECH LANDFARM

Chain of Custody Record Complete? (Y/N) Y

Analytical Laboratory: H.E.A.L.

Equipment Used During Sampling:

Other Notes/Comments

6.62 Column

1.08 volume

3.24 To be purged

Water Sampling Record

Animas Environmental Services

Monitor Well No: 6

624 E. Comanche, Farmington NM 87401

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

Project: Groundwater Sampling

Project No.:

Site: Enterprise Lateral 6C

Date: 3/20/2013

Location:

Time: 1312

Sampler: LAMONE, L

Weather: CLEAR / WARM

Sampling Method: BAILER

Air Temperature: 51° F

Depth of Well (ft): 25.20

Well Diam. (in.): 2

Depth to Water (ft): 18.27

Site Elevation (ft):

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (gallons)	Notes/Observations
1816	14.87	6502	1.72	7.46	-270.6	1 st Bailen	Gray H ₂ O odor Sheen
1319	14.67	7442	1.44	7.39	-303.6	1.0 gal.	Gray H ₂ O odor Sheen
1324	14.49	7435	0.71	7.40	-313.5	2.0 gal	gray H ₂ O odor/Sheen
1329	14.36	7571	0.79	7.38	-311.5	3.5 gal.	gray, silt odor Sheen H ₂ O

Analytical Parameters Sampled For (include Method #): 8021 BTEX

Disposal of Purged Water: ENVIRO TECH LANDFARM

Chain of Custody Record Complete? (Y/N) Y

Analytical Laboratory: H.E.A.L

Equipment Used During Sampling:

Other Notes/Comments

6.93 H₂O Column

1.13 Volume

3.40 To be purged

Water Sampling Record

Animas Environmental Services

Monitor Well No: 7

624 E. Comanche, Farmington NM 87401

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

Project: Groundwater Sampling

Project No.: _____

Site: Enterprise Lateral 6C

Date: 3/20/2013

Location: _____

Time: 1129 (1144 SAMPLE)

Sampler: LAMONE, L.

Weather: Cool/Clear

Sampling Method: Bailer

Air Temperature: 29° F

Depth of Well (ft): 26.28

Well Diam. (in.): 2

Depth to Water (ft): 18.79

Site Elevation (ft): _____

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (gallons)	Notes/Observations
1133	14.03	7.416	3.49	7.45	-240.5	1/2 Bailer	Gray - Black H ₂ O
1136	14.52	7.386	1.90	7.46	-232.6	1.0 gal	black H ₂ O odor
1140	14.47	7.414	1.21	7.43	-233.5	2.50 gal	black, silty H ₂ O
1144	14.40	7.512	1.45	7.45	-229.1	3.75 gal	Black, silty odor

Analytical Parameters Sampled For (include Method #): 8021 BTEX

Disposal of Purged Water: ENVIROTECH LANDFARM

Chain of Custody Record Complete? (Y/N) Y

Analytical Laboratory: H.E.A.L.

Equipment Used During Sampling: YSI; product Probe; Twine; Bailer 5 gal buckets
2 55 gal drums;

Other Notes/Comments

7.49 H₂O Column

1.22 H₂O Volume

3.67 To be Purged

Water Sampling Record

Animas Environmental Services

Monitor Well No: 8

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

Project: Grand water sampling
 Site: Enterprise Lateral 6C
 Location: _____
 Sampler: LAMONE, L
 Sampling Method: _____
 Depth of Well (ft): 24.65
 Depth to Water (ft): 14.63

Project No.: _____
 Date: 3/20/2013
 Time: 1233 (1304 SAMPLE)
 Weather: Clear / WARM
 Air Temperature: 51°F
 Well Diam. (in.): 2
 Site Elevation (ft): _____

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (gallons)	Notes/Observations
1238	15.00	6.549	2.90	7.61	-39.8	1 st Bailee	Clear H ₂ O
1244	14.91	6.553	1.18	7.50	-46.3	1.0 gal.	Cloudy H ₂ O
1251	14.98	6.549	0.78	7.46	-50.1	2.0 gal.	cloudy, silt H ₂ O
1254	14.69	6.730	1.79	7.33	-122.1	3.0 gal.	cloudy silt H ₂ O
1257	14.84	6.573	1.32	7.41	-86.3	4.0 gal	cloudy silt H ₂ O
1304	14.86	7.084	2.06	7.41	-155.6	5.0 gal	cloudy silt H ₂ O

Analytical Parameters Sampled For (include Method #): 8021 BTEX

Disposal of Purged Water: ENVIROTECH LANDFARM

Chain of Custody Record Complete? (Y/N) Y

Analytical Laboratory: H.E.A.L.

Equipment Used During Sampling:

Other Notes/Comments
 10.02 H₂O Column
 1.64 Volume
 5.0 gal. To be Purged

Water Sampling Record

Animas Environmental Services

Monitor Well No: 9

624 E. Comanche, Farmington NM 87401

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

Project: ~~Monitor~~ Ground Water Sampling

Project No.:

Site: Enterprise Lateral 6C

Date: 3/20/2012

Location: ~~Enterprise Lateral 6C~~

Time: 1000

1030 SAMPLE

Sampler: LAM, NE, L

Weather: Clear / cool

Sampling Method: Bailer

Air Temperature: 28° F

Depth of Well (ft): ~~12.28~~ 26.06

Well Diam. (in.): 2

Depth to Water (ft): 17.28

Site Elevation (ft):

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (gallons)	Notes/Observations
1613	13.36	6.813	2.69	7.52	44.1	1 st Bailer	Clear H ₂ O
1016	13.58	6.725	2.29	7.42	40.0	1.0 gal.	Tan H ₂ O
1022	13.75	6.688	2.50	7.37	32.3	2.0 gal	Clear H ₂ O
1025	13.64	6.673	2.28	7.33	27.8	3.0 gal	Tan H ₂ O
1030	13.70	6.700	2.56	7.30	25.7	4.30 gal	Tan H ₂ O

Analytical Parameters Sampled For (include Method #): 8021 BTEX

Disposal of Purged Water: ~~EnviroTech~~ EnviroTech Land Farm

Chain of Custody Record Complete? (Y/N) Y

Analytical Laboratory: H.E.A.L.

Equipment Used During Sampling:

Other Notes/Comments

26.06
 17.28
 — 8.78
 x 0.1632
 1.4329
x 3 4.30 gal.



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

March 27, 2013

Tami Ross

Animas Environmental Services
624 East Comanche
Farmington, NM 87401
TEL: (505) 793-2072
FAX: (505) 324-2022

RE: Enterprise Lateral 6C

OrderNo.: 1303882

Dear Tami Ross:

Hall Environmental Analysis Laboratory received 8 sample(s) on 3/21/2013 for the analyses presented in the following report.

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 1303882

Date Reported: 3/27/2013

CLIENT: Animas Environmental Services

Lab Order: 1303882

Project: Enterprise Lateral 6C

Lab ID: 1303882-001

Collection Date: 3/20/2013 10:30:00 AM

Client Sample ID: MW-9

Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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EPA METHOD 8260: VOLATILES SHORT LIST

Analyst: RAA

Benzene	ND	2.0		µg/L	2	3/22/2013 10:39:11 PM
Toluene	ND	2.0		µg/L	2	3/22/2013 10:39:11 PM
Ethylbenzene	ND	2.0		µg/L	2	3/22/2013 10:39:11 PM
Xylenes, Total	ND	4.0		µg/L	2	3/22/2013 10:39:11 PM
Surr: 1,2-Dichloroethane-d4	86.4	70-130		%REC	2	3/22/2013 10:39:11 PM
Surr: 4-Bromofluorobenzene	103	69.5-130		%REC	2	3/22/2013 10:39:11 PM
Surr: Dibromofluoromethane	94.4	70-130		%REC	2	3/22/2013 10:39:11 PM
Surr: Toluene-d8	96.0	70-130		%REC	2	3/22/2013 10:39:11 PM

Lab ID: 1303882-002

Collection Date: 3/20/2013 11:44:00 AM

Client Sample ID: MW-7

Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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EPA METHOD 8260: VOLATILES SHORT LIST

Analyst: RAA

Benzene	ND	2.0		µg/L	2	3/23/2013 12:03:18 AM
Toluene	ND	2.0		µg/L	2	3/23/2013 12:03:18 AM
Ethylbenzene	ND	2.0		µg/L	2	3/23/2013 12:03:18 AM
Xylenes, Total	ND	4.0		µg/L	2	3/23/2013 12:03:18 AM
Surr: 1,2-Dichloroethane-d4	89.9	70-130		%REC	2	3/23/2013 12:03:18 AM
Surr: 4-Bromofluorobenzene	97.8	69.5-130		%REC	2	3/23/2013 12:03:18 AM
Surr: Dibromofluoromethane	93.4	70-130		%REC	2	3/23/2013 12:03:18 AM
Surr: Toluene-d8	94.4	70-130		%REC	2	3/23/2013 12:03:18 AM

Lab ID: 1303882-003

Collection Date: 3/20/2013 1:04:00 PM

Client Sample ID: MW-8

Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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EPA METHOD 8260: VOLATILES SHORT LIST

Analyst: RAA

Benzene	41	2.0		µg/L	2	3/23/2013 12:31:28 AM
Toluene	36	2.0		µg/L	2	3/23/2013 12:31:28 AM
Ethylbenzene	ND	2.0		µg/L	2	3/23/2013 12:31:28 AM
Xylenes, Total	89	4.0		µg/L	2	3/23/2013 12:31:28 AM
Surr: 1,2-Dichloroethane-d4	92.3	70-130		%REC	2	3/23/2013 12:31:28 AM
Surr: 4-Bromofluorobenzene	93.7	69.5-130		%REC	2	3/23/2013 12:31:28 AM
Surr: Dibromofluoromethane	94.8	70-130		%REC	2	3/23/2013 12:31:28 AM
Surr: Toluene-d8	92.7	70-130		%REC	2	3/23/2013 12:31:28 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

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

Analytical Report

Lab Order: 1303882

Date Reported: 3/27/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Project: Enterprise Lateral 6C

Lab Order: 1303882

Lab ID: 1303882-004 **Collection Date:** 3/20/2013 1:29:00 PM
Client Sample ID: MW-6 **Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	5.0		µg/L	5	3/23/2013 2:51:30 AM
Toluene	ND	5.0		µg/L	5	3/23/2013 2:51:30 AM
Ethylbenzene	120	5.0		µg/L	5	3/23/2013 2:51:30 AM
Xylenes, Total	800	10		µg/L	5	3/23/2013 2:51:30 AM
Surr: 1,2-Dichloroethane-d4	89.2	70-130		%REC	5	3/23/2013 2:51:30 AM
Surr: 4-Bromofluorobenzene	93.0	69.5-130		%REC	5	3/23/2013 2:51:30 AM
Surr: Dibromofluoromethane	93.4	70-130		%REC	5	3/23/2013 2:51:30 AM
Surr: Toluene-d8	95.1	70-130		%REC	5	3/23/2013 2:51:30 AM

Lab ID: 1303882-005 **Collection Date:** 3/20/2013 1:57:00 PM
Client Sample ID: MW-2 **Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	5.0		µg/L	5	3/23/2013 4:15:40 AM
Toluene	ND	5.0		µg/L	5	3/23/2013 4:15:40 AM
Ethylbenzene	ND	5.0		µg/L	5	3/23/2013 4:15:40 AM
Xylenes, Total	67	10		µg/L	5	3/23/2013 4:15:40 AM
Surr: 1,2-Dichloroethane-d4	92.4	70-130		%REC	5	3/23/2013 4:15:40 AM
Surr: 4-Bromofluorobenzene	99.5	69.5-130		%REC	5	3/23/2013 4:15:40 AM
Surr: Dibromofluoromethane	100	70-130		%REC	5	3/23/2013 4:15:40 AM
Surr: Toluene-d8	95.3	70-130		%REC	5	3/23/2013 4:15:40 AM

Lab ID: 1303882-006 **Collection Date:** 3/20/2013 12:21:00 PM
Client Sample ID: MW-3 **Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	2.0		µg/L	2	3/23/2013 12:59:40 AM
Toluene	ND	2.0		µg/L	2	3/23/2013 12:59:40 AM
Ethylbenzene	ND	2.0		µg/L	2	3/23/2013 12:59:40 AM
Xylenes, Total	ND	4.0		µg/L	2	3/23/2013 12:59:40 AM
Surr: 1,2-Dichloroethane-d4	87.1	70-130		%REC	2	3/23/2013 12:59:40 AM
Surr: 4-Bromofluorobenzene	107	69.5-130		%REC	2	3/23/2013 12:59:40 AM
Surr: Dibromofluoromethane	96.4	70-130		%REC	2	3/23/2013 12:59:40 AM
Surr: Toluene-d8	95.8	70-130		%REC	2	3/23/2013 12:59:40 AM

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
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Analytical Report

Lab Order: 1303882

Date Reported: 3/27/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Project: Enterprise Lateral 6C

Lab Order: 1303882

Lab ID: 1303882-007

Collection Date: 3/20/2013 10:53:00 AM

Client Sample ID: MW-5

Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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EPA METHOD 8260: VOLATILES SHORT LIST

Analyst: RAA

Benzene	ND	2.0		µg/L	2	3/23/2013 1:27:32 AM
Toluene	ND	2.0		µg/L	2	3/23/2013 1:27:32 AM
Ethylbenzene	ND	2.0		µg/L	2	3/23/2013 1:27:32 AM
Xylenes, Total	ND	4.0		µg/L	2	3/23/2013 1:27:32 AM
Surr: 1,2-Dichloroethane-d4	88.0	70-130		%REC	2	3/23/2013 1:27:32 AM
Surr: 4-Bromofluorobenzene	104	69.5-130		%REC	2	3/23/2013 1:27:32 AM
Surr: Dibromofluoromethane	95.6	70-130		%REC	2	3/23/2013 1:27:32 AM
Surr: Toluene-d8	98.2	70-130		%REC	2	3/23/2013 1:27:32 AM

Lab ID: 1303882-008

Collection Date: 3/20/2013 11:21:00 AM

Client Sample ID: MW-4

Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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EPA METHOD 8260: VOLATILES SHORT LIST

Analyst: RAA

Benzene	290	10		µg/L	10	3/25/2013 6:05:03 PM
Toluene	110	2.0		µg/L	2	3/23/2013 1:55:25 AM
Ethylbenzene	ND	2.0		µg/L	2	3/23/2013 1:55:25 AM
Xylenes, Total	15	4.0		µg/L	2	3/23/2013 1:55:25 AM
Surr: 1,2-Dichloroethane-d4	87.2	70-130		%REC	2	3/23/2013 1:55:25 AM
Surr: 4-Bromofluorobenzene	104	69.5-130		%REC	2	3/23/2013 1:55:25 AM
Surr: Dibromofluoromethane	97.1	70-130		%REC	2	3/23/2013 1:55:25 AM
Surr: Toluene-d8	94.3	70-130		%REC	2	3/23/2013 1:55:25 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1303882

27-Mar-13

Client: Animas Environmental Services

Project: Enterprise Lateral 6C

Sample ID: b4	SampType: MBLK	TestCode: EPA Method 8260: Volatiles Short List								
Client ID: PBW	Batch ID: R9377	RunNo: 9377								
Prep Date:	Analysis Date: 3/22/2013	SeqNo: 267674	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 1,2-Dichloroethane-d4	8.6		10.00		86.4	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		98.9	69.5	130			
Surr: Dibromofluoromethane	9.3		10.00		93.3	70	130			
Surr: Toluene-d8	9.5		10.00		94.6	70	130			

Sample ID: 100ng lcs	SampType: LCS	TestCode: EPA Method 8260: Volatiles Short List								
Client ID: LCSW	Batch ID: R9377	RunNo: 9377								
Prep Date:	Analysis Date: 3/22/2013	SeqNo: 267675	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	101	70	130			
Toluene	20	1.0	20.00	0	98.6	80	120			
Surr: 1,2-Dichloroethane-d4	9.1		10.00		91.0	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		106	69.5	130			
Surr: Dibromofluoromethane	9.3		10.00		93.5	70	130			
Surr: Toluene-d8	9.6		10.00		95.7	70	130			

Sample ID: 1303882-001ams	SampType: MS	TestCode: EPA Method 8260: Volatiles Short List								
Client ID: MW-9	Batch ID: R9377	RunNo: 9377								
Prep Date:	Analysis Date: 3/22/2013	SeqNo: 267686	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	39	2.0	40.00	0	98.7	70	130			
Toluene	39	2.0	40.00	0	96.8	68.5	128			
Surr: 1,2-Dichloroethane-d4	18		20.00		89.7	70	130			
Surr: 4-Bromofluorobenzene	21		20.00		104	69.5	130			
Surr: Dibromofluoromethane	19		20.00		95.0	70	130			
Surr: Toluene-d8	19		20.00		96.8	70	130			

Sample ID: 1303882-001amsd	SampType: MSD	TestCode: EPA Method 8260: Volatiles Short List								
Client ID: MW-9	Batch ID: R9377	RunNo: 9377								
Prep Date:	Analysis Date: 3/22/2013	SeqNo: 267687	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	39	2.0	40.00	0	97.5	70	130	1.29	20	
Toluene	37	2.0	40.00	0	93.0	68.5	128	4.04	20	
Surr: 1,2-Dichloroethane-d4	18		20.00		90.5	70	130	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 130382

27-Mar-13

Client: Animas Environmental Services

Project: Enterprise Lateral 6C

Sample ID: 1303882-001amsd	SampType: MSD	TestCode: EPA Method 8260: Volatiles Short List								
Client ID: MW-9	Batch ID: R9377	RunNo: 9377								
Prep Date:	Analysis Date: 3/22/2013	SeqNo: 267687	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	21		20.00		107	69.5	130	0	0	
Surr: Dibromofluoromethane	19		20.00		96.3	70	130	0	0	
Surr: Toluene-d8	19		20.00		96.2	70	130	0	0	

Sample ID: 5ml-rb	SampType: MBLK	TestCode: EPA Method 8260: Volatiles Short List								
Client ID: PBW	Batch ID: R9399	RunNo: 9399								
Prep Date:	Analysis Date: 3/25/2013	SeqNo: 268592	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Surr: 1,2-Dichloroethane-d4	8.9		10.00		89.5	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		106	69.5	130			
Surr: Dibromofluoromethane	9.9		10.00		99.1	70	130			
Surr: Toluene-d8	9.5		10.00		95.0	70	130			

Sample ID: 100ng lcs	SampType: LCS	TestCode: EPA Method 8260: Volatiles Short List								
Client ID: LCSW	Batch ID: R9399	RunNo: 9399								
Prep Date:	Analysis Date: 3/25/2013	SeqNo: 268593	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	105	70	130			
Surr: 1,2-Dichloroethane-d4	8.9		10.00		88.6	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		108	69.5	130			
Surr: Dibromofluoromethane	9.2		10.00		92.3	70	130			
Surr: Toluene-d8	9.5		10.00		94.5	70	130			

Sample ID: 1303961-001a ms	SampType: MS	TestCode: EPA Method 8260: Volatiles Short List								
Client ID: BatchQC	Batch ID: R9399	RunNo: 9399								
Prep Date:	Analysis Date: 3/25/2013	SeqNo: 268599	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	400	20	400.0	0	101	70	130			
Surr: 1,2-Dichloroethane-d4	180		200.0		88.2	70	130			
Surr: 4-Bromofluorobenzene	200		200.0		99.4	69.5	130			
Surr: Dibromofluoromethane	180		200.0		91.8	70	130			
Surr: Toluene-d8	180		200.0		92.4	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1303882

27-Mar-13

Client: Animas Environmental Services

Project: Enterprise Lateral 6C

Sample ID: 1303961-001a msd	SampType: MSD	TestCode: EPA Method 8260: Volatiles Short List								
Client ID: BatchQC	Batch ID: R9399	RunNo: 9399								
Prep Date:	Analysis Date: 3/25/2013	SeqNo: 268600 Units: µg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	390	20	400.0	0	97.5	70	130	3.46	20	
Surr: 1,2-Dichloroethane-d4	170		200.0		86.6	70	130	0	0	
Surr: 4-Bromofluorobenzene	200		200.0		101	69.5	130	0	0	
Surr: Dibromofluoromethane	180		200.0		92.2	70	130	0	0	
Surr: Toluene-d8	190		200.0		96.1	70	130	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

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



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

Sample Log-In Check List

Client Name: **Animas Environmental**

Work Order Number: **1303882**

RcptNo: **1**

Received by/date: *umg* **03/21/13**
 Logged By: **Ashley Gallegos** **3/21/2013 10:00:00 AM**
 Completed By: **Ashley Gallegos** **3/21/2013 5:40:15 PM**
 Reviewed By: *[Signature]* **03/22/13**

Chain of Custody

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

Log In

- 4. Was an attempt made to cool the samples? Yes ✓ No NA
- 5. Were all samples received at a temperature of >0° C to 6.0°C Yes ✓ No NA
- 6. Sample(s) in proper container(s)? Yes ✓ No
- 7. Sufficient sample volume for indicated test(s)? Yes ✓ No
- 8. Are samples (except VOA and ONG) properly preserved? Yes ✓ No
- 9. Was preservative added to bottles? Yes No ✓ NA
- 10. VOA vials have zero headspace? Yes ✓ No No VOA Vials
- 11. Were any sample containers received broken? Yes No ✓ # of preserved bottles checked for pH: (<2 or >12 unless noted)
- 12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ✓ No Adjusted?
- 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 Checked by:

Special Handling (if applicable)

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

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

17. Additional remarks:

18. Cooler Information

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

Chain-of-Custody Record

Client: **ANNAS ENVIRONMENTAL SERVICES**
 Mailing Address: **624 E. COMANCHE FARMINGTON NM 87401**
 Phone #: **505-564-2281**

Turn-Around Time:
 Standard Rush

Project Name:
Enterprise LATERAL 6C

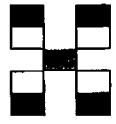
Project #:

email or Fax#:
 QA/QC Package:
 Standard Level 4 (Full Validation)

Project Manager:
TAMI ROSS

Accreditation
 NELAP Other _____
 EDD (Type) _____

Sampler: **LAMONE, L.**
 Sample Temperature: **10**



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX (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)	
20/2013	1030	H ₂ O	MW-9	3 VOAS	HCL	-001	✓												
20/2013	1144	H ₂ O	MW-7	3 VOAS	HCL	-002	✓												
	1304	H ₂ O	MW-8	3 VOAS	HCL	-003	✓												
	1329	H ₂ O	MW-6	3 VOAS	HCL	-004	✓												
	1357	H ₂ O	MW-2	3 VOAS	HCL	-005	✓												
	1221	H ₂ O	MW-3	3 VOAS	HCL	-006	✓												
	1053	H ₂ O	MW-5	3 VOAS	HCL	-007	✓												
	1121	H ₂ O	MW-4	3 VOAS	HCL	-008	✓												

Date: 2/20/13 Time: 1650 Relinquished by: *[Signature]* Received by: *[Signature]* Date: 2/20/13 Time: 1650
 Date: 2/20/13 Time: 1730 Relinquished by: *[Signature]* Received by: *[Signature]* Date: 03/21/13 Time: 10:00

Remarks:

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