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

ENTERPRISE PRODUCTS OPERATING LLC



November 7, 2013

Return Receipt Requested 7010 1010 0003 7361 4369

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

Attn: Jim Griswold

Re:

3rd Quarter 2013 Groundwater Monitoring Report Lateral K-31 December 2011 Pipeline Release

SE¼ SW¼, Section 16, T25N, R6W Rio Arriba County, New Mexico

Dear Mr. von Gonten:

Enterprise Field Services, LLC (Enterprise) is submitting two copies and one CD of the enclosed report entitled: 3rd Quarter 2013 Groundwater Monitoring Report, dated October 22, 2013. This report documents the results of the fourth groundwater monitoring event conducted at the above-referenced release site during September 2013.

During this quarterly event, a total of nine monitor wells (MW-1 through MW-9) were monitored and sampled at the release site. Dissolved-phase benzene concentrations exceeding applicable Water Quality Control Commission (WQCC) Groundwater Quality Standards were present in three wells, including MW-1 (24 μ g/L), MW-6 (40 μ g/L), and MW-8 (34 μ g/L). Dissolved-phase concentrations of toluene, ethylbenzene, and xylene were below applicable WQCC standards.

Enterprise will continue to monitor and sample site monitor wells on a quarterly basis. If groundwater concentrations of contaminants increase over time, Enterprise will evaluate additional remedial options. The next groundwater sampling event is tentatively scheduled for December 2013.

If you have any questions concerning the enclosed report, 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

Gregory E. Miller, P.G. Supervisor, Environmental November 7, 2013 Mr. Glenn von Gonten Page 2

Enclosure – 3rd Quarter 2013 Groundwater Monitoring Report - Lateral K-31 December 2011 Pipeline Release

cc: Brandon Powell, New Mexico Oil Conservation Division, 1000 Rio Brazos Road, Aztec, NM

ec: Melissa Armijo New Mexico State Land Office , Santa Fe, NM Lany Cupps – Animas Environmental Services, Farmington, NM

Animas Environmental Services, LLC

October 30, 2013

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

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

> Durango, Colorado 970-403-3084

3rd Quarter 2013 Groundwater Monitoring Report

Enterprise Field Services, LLC
Lateral K-31 December 2011 Pipeline Release
SE¼ SW¼, Section 16, T25N, R6W
Rio Arriba County, New Mexico

Dear Mr. Smith:

RE:

Animas Environmental Services, LLC (AES), on behalf of Enterprise Field Services, LLC (Enterprise), has prepared this 3rd Quarter 2013 Groundwater Monitoring Report for the Lateral K-31 December 2011 Pipeline Release in accordance with New Mexico Oil Conservation Division (NMOCD) and New Mexico Environment Department (NMED) Ground Water Quality Bureau (GWQB) regulations.

A release was reported at the location on December 2, 2011, by Enterprise personnel, and on the same date Enterprise personnel were dispatched to locate and isolate the leak in the pipeline. The line repair was also completed on December 2, 2011. The cause of the release was identified as a corrosion hole on the underside of the line.

An initial release assessment was conducted by AES in December 2011, and a site investigation was conducted in March 2012. A groundwater investigation was completed in September 2012 in accordance with a workplan previously prepared by AES and dated July 30, 2012.

1.0 Site Information

1.1 Site Location and NMOCD Ranking

The release area is located on state land under jurisdiction of the New Mexico State Land Office within the SE½ SW½, Section 16, T25N, R6W, Rio Arriba County, New Mexico. Latitude and longitude of the release were recorded as N36.39373 and W107.47519, 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 20 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 Largo Canyon wash, which is approximately 1,550 feet to the east. (0 points)

1.2 Previous Site Activities

Initial Release Assessment - December 2011

On December 8, 2011, four test holes (TP-1 through TP-4) were each excavated to a total depth of 15.5 feet bgs, from which a total of six soil samples were collected for laboratory analysis. A groundwater sample from an existing monitor well labeled MW-4, which is located near the release area, was collected for laboratory analysis. Soil laboratory analytical results for total benzene, toluene, ethylbenzene, and xylenes (BTEX) and total petroleum hydrocarbons (TPH) exceeded applicable NMOCD action levels in two of the four test holes. Groundwater was not encountered in the test holes; however, depth to water was measured at 14 feet bgs in the nearby groundwater monitor well. The laboratory analytical results for the groundwater sample collected from this well showed reported BTEX concentrations below laboratory detection limits. Details of the initial release assessment were submitted to Enterprise in a letter report dated January 20, 2012.

Site Investigation – March 2012

On March 15 and 16, 2012, AES completed a site investigation in order to delineate the full extent of hydrocarbon impact on subsurface soils and groundwater resulting from the release. The investigation included the installation of 12 soil borings (SB-1 through SB-12) and the collection of soil and groundwater samples. Soil samples collected for laboratory analysis showed that contaminant concentrations exceeded NMOCD action levels for TPH in borings SB-1, SB-9, and SB-11. The highest TPH concentration was reported in SB-9 with 8,700 mg/kg.

Dissolved phase analytical results from the March 2012 site investigation indicated groundwater was impacted above the New Mexico Water Quality Control Commission (WQCC) standard for benzene in SB-1W through SB-4W, SB-7W, SB-9W, SB-11W, and SB-12W. The highest concentration for benzene was reported in SB-11W with 1,400 $\mu g/L$. Concentration contours of dissolved phase contaminants indicated that migration of the plume is primarily north along the pipeline corridor and to the northeast (following

gradient) towards Largo Canyon. The highest dissolved phase concentrations of BTEX were noted in SB-3W and SB-11W.

Groundwater Investigation – September 2012

On August 20 through September 5, 2012, AES completed a groundwater investigation in order to further delineate the extent of the dissolved phase hydrocarbon contaminants associated with the Lateral K-31 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 consisted of alluvium and floodplain material which constitutes the wash of Largo Canyon. Bedrock was not encountered in the soil borings. Soil observed during the investigation consisted primarily of dark gray, fine grained, moist sand in the upper 5 feet, grading to sandy clay with depth, which was brown to dark gray to black, moist to wet, and sometimes exhibiting a strong odor and heavy staining. Brown, fine grained, wet sand with no odor or staining was encountered at depths greater than approximately 15 feet bgs.

Soil and groundwater samples were collected from each soil boring/monitor well. Soil laboratory analytical results indicated benzene, total BTEX, and TPH concentrations were not above NMOCD action levels in any of the soil borings. However, laboratory results confirmed dissolved phase benzene concentrations at or above the WQCC standard of 10 μ g/L in four wells, including MW-1 (18 μ g/L), MW-5 (10 μ g/L), MW-6 (37 μ g/L), and MW-8 (20 μ g/L). Dissolved phase toluene, ethylbenzene, and xylenes concentrations were below WQCC standards in all monitor wells.

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 at or above the WQCC standard of 10 μ g/L in six wells, including MW-1 (11 μ g/L), MW-2 (17 μ g/L), MW-4 (19 μ g/L), MW-5 (10 μ g/L), MW-6 (82 μ g/L), and MW-8 (25 μ g/L). Dissolved phase toluene, ethylbenzene, and xylenes concentrations were below WQCC standards in all monitor wells. Details of the groundwater sampling event were presented in the *Quarterly Groundwater Sampling Report* dated February 22, 2013.

Groundwater Monitoring and Sampling – March 2013

Site monitor wells were monitored and sampled by AES on March 21, 2013. Dissolved phase benzene concentrations were reported above the WQCC standard of 10 μ g/L in four wells, including MW-1 (29 μ g/L), MW-2 (18 μ g/L), MW-6 (130 μ g/L), and MW-8 (26 μ g/L). Dissolved phase toluene, ethylbenzene, and xylenes concentrations were below WQCC standards in all monitor wells. Details of the groundwater sampling event were included in the *Quarterly Groundwater Sampling Report* dated May 3, 2013.

2.0 Groundwater Monitoring and Sampling – September 2013

On September 4, 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 July 30, 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. Groundwater elevations decreased by an average of 0.90 feet across the site, and depths to groundwater were observed to range from 15.91 feet below top of casing (TOC) in MW-5 to 19.49 feet below TOC in MW-1. The groundwater gradient was calculated to be approximately 0.005 foot/foot to the north-northwest, and groundwater elevations and 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 14.10°C in MW-3 to 15.89°C in MW-5, and conductivity ranged from 12.15 mS in MW-7 to 17.56 mS in MW-5. DO concentrations were between 0.55 mg/L in MW-1 and 1.39 mg/L in MW-2, and pH ranged from 7.23 in MW-6 to 7.53 in MW-5. 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 using low flow purging techniques with a peristaltic pump from MW-1 through MW-9 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.

2.2.1 Groundwater Analytical Results

Groundwater laboratory analytical results showed that dissolved phase benzene concentrations were at or above the WQCC standard of 10 µg /L in three wells, including

MW-1 (24 μ g/L), MW-6 (40 μ g/L), and MW-8 (34 μ g/L). Concentrations of dissolved phase toluene, ethylbenzene, and xylene were below the WQCC standards of 750 μ g/L, 750 μ g/L, and 620 μ g/L, respectively, in all wells. Tabulated groundwater analytical results are presented in Table 2 and on Figure 4, and dissolved phase benzene contours are presented on Figure 5. Groundwater laboratory analytical reports are presented in the Appendix.

3.0 Conclusion and Recommendations

A total of nine monitor wells (MW-1 through MW-9) were monitored and sampled at the Lateral K-31 release location by AES on September 4, 2013, in accordance with the work plan submitted by AES in July 2012. Laboratory results confirmed dissolved phase benzene concentrations above the WQCC standard of 10 μ g/L in three wells, with the highest concentration reported in MW-6 (40 μ g/L). Dissolved phase toluene, ethylbenzene, and xylenes concentrations were below WQCC standards in all monitor wells.

Based on laboratory analytical results from the September 2013 sampling event, groundwater continues to be impacted above the WQCC standard for benzene in the vicinity of the December 2011 release. However, because concentrations are not significantly high, the site appears to be appropriate for monitored natural attenuation. AES recommends continued quarterly monitoring and sampling. If groundwater concentrations of contaminants increase over time, AES recommends evaluation of an oxygen release compound (ORC) to promote biodegradation of residual contaminants.

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

Sincerely,

Stephanie Lynn

Environmental Engineer

Steplanie Algo

Elizabeth McNally, P.E.

(Gyobith i Merelly-

Attachments:

Tables

Table 1. Summary of Groundwater Measurements and Water Quality Data

Table 2. Summary of Groundwater Analytical Results

Figures

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map

Figure 3. Groundwater Elevation Contours, September 2013

Figure 4. Groundwater Contaminant Concentrations, September 2013

Figure 5. Dissolved Benzene Concentration Contours, September 2013

Appendix

Water Sample Collection Forms
Groundwater Analytical Laboratory Reports (Hall 1309239)

cc: Glenn von Gonten

New Mexico Oil Conservation Division

1220 S. St. Francis Drive Santa Fe, NM 87505

Brandon Powell New Mexico Oil Conservation Division 1000 Rio Brazos Road

Aztec, NM 87410

Melissa Armijo

Via email with delivery confirmation receipt

marmijo@slo.state.nm.us

New Mexico State Land Office

P.O. Box 1148

Santa Fe, NM 87504

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TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Enterprise Field Services, LLC Lateral K-31 December 2011 Pipeline Release

Rio Arriba County, New Mexico

Surveyed GW Elev. Conductivity TOC (ft) (ft) pH (ms) 6245.24 6225.80 7.40 7.623 6245.24 6226.22 7.48 7.556 6245.24 6226.65 7.32 12.39 6245.24 6226.65 7.32 12.39 6242.58 6226.25 7.43 8.592 6242.58 6226.68 7.30 13.89 6242.58 6226.68 7.25 13.89 6242.58 6226.86 7.25 13.89 6242.58 6226.86 7.25 13.89 6242.58 6226.87 7.25 13.89 6245.48 6226.57 7.23 7.920 6245.48 6226.51 7.27 12.95 6245.48 6226.51 7.29 12.26 6245.48 6226.51 7.29 12.46 6245.48 6226.51 7.32 16.46 6244.08 6226.94 7.45 10.14			Depth to					Dissolved		
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05-Sep-12 18.93 6245.48 6226.55 7.42 7.631 0.97 14.93 20-Dec-12 18.51 6245.48 6226.97 7.23 7.920 0.91 12.81 21-Mar-13 18.07 6245.48 6226.97 7.23 7.920 0.91 12.81 04-Sep-13 18.07 6245.48 6226.51 7.29 12.26 1.20 14.10 05-Sep-13 18.97 6244.08 6226.53 7.42 10.05 1.97 14.61 20-Dec-12 17.14 6244.08 6226.54 7.32 16.46 1.30 13.62 20-Dec-12 17.14 6244.08 6226.49 7.32 16.46 1.30 13.62 04-Sep-13 17.59 6244.08 6226.49 7.33 16.53 1.24 14.82 20-Dec-12 15.84 6241.41 6225.97 7.70 10.580 0.57 15.74 20-Dec-12 15.44 6241.41 6225.97 7.70 10.580										
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21-Mar-13 18.07 6245.48 6226.51 7.29 12.36 1.23 13.37 04-Sep-13 18.97 6245.48 6226.51 7.29 12.26 1.20 14.10 20-Sep-12 17.14 6244.08 6226.94 7.45 10.14 0.90 13.92 20-Dec-12 17.14 6244.08 6226.94 7.45 10.14 0.90 13.92 21-Mar-13 16.71 6244.08 6226.49 7.32 16.46 1.30 13.62 04-Sep-13 17.59 6244.08 6226.49 7.33 16.53 1.24 14.82 05-Sep-12 15.88 6241.41 6225.57 7.70 10.580 0.57 15.74 20-Dec-12 15.44 6241.41 6225.97 7.70 10.580 0.57 15.51 21-Mar-13 15.00 6241.41 6225.97 7.70 10.580 0.57 15.18 21-Mar-13 15.91 6241.41 6225.57 7.53 17.65	MW-3	20-Dec-12	18.51	6245.48	6226.97	7.23	7.920	0.91	12.81	NM
04-Sep-13 18.97 6245.48 6226.51 7.29 12.26 1.20 14.10 05-Sep-12 17.55 6244.08 6226.94 7.45 10.05 1.97 14.61 20-Dec-12 17.14 6244.08 6226.94 7.45 10.14 0.90 13.92 21-Mar-13 16.71 6244.08 6226.94 7.32 16.46 1.30 13.62 04-Sep-13 17.59 6244.08 6226.49 7.33 16.53 1.24 14.82 05-Sep-12 15.88 6241.41 6225.53 7.61 10.637 2.76 15.74 20-Dec-12 15.44 6241.41 6225.53 7.70 10.580 0.57 15.71 21-Mar-13 15.00 6241.41 6225.53 7.70 10.580 0.57 15.18 21-Mar-13 15.01 6241.41 6225.53 7.53 17.63 0.83 15.89	MW-3	21-Mar-13	18.07	6245.48	6227.41	7.27	12.95	1.23	13.37	-70.6
05-Sep-12 17.55 6244.08 6226.53 7.42 10.05 1.97 14.61 20-Dec-12 17.14 6244.08 6226.94 7.45 10.14 0.90 13.92 21-Mar-13 16.71 6244.08 6226.94 7.32 16.46 1.30 13.62 04-Sep-13 17.59 6244.08 6226.49 7.33 16.53 1.24 14.82 05-Sep-12 15.88 6241.41 6225.53 7.61 10.580 0.57 15.74 20-Dec-12 15.44 6241.41 6225.57 7.70 10.580 0.57 15.18 21-Mar-13 15.00 6241.41 6225.57 7.54 17.63 1.23 14.18 04-Sep-13 15.91 6241.41 6225.50 7.53 17.56 0.83 15.89	MW-3	04-Sep-13	18.97	6245.48	6226.51	7.29	12.26	1.20	14.10	-101.5
05-Sep-12 17.55 6244.08 6226.53 7.42 10.05 1.97 14.61 20-Dec-12 17.14 6244.08 6226.94 7.45 10.14 0.90 13.92 21-Mar-13 16.71 6244.08 6227.37 7.32 16.46 1.30 13.62 04-Sep-13 17.59 6244.08 6226.49 7.33 16.53 1.24 14.82 05-Sep-12 15.88 6241.41 6225.53 7.61 10.580 0.57 15.74 20-Dec-12 15.44 6241.41 6225.97 7.70 10.580 0.57 15.51 21-Mar-13 15.00 6241.41 6225.97 7.54 17.63 1.23 14.18 04-Sep-13 15.91 6241.41 6225.50 7.53 17.56 0.83 15.89										
20-Dec-12 17.14 6244.08 6226.94 7.45 10.14 0.90 13.92 21-Mar-13 16.71 6244.08 6227.37 7.32 16.46 1.30 13.62 04-Sep-13 17.59 6244.08 6226.49 7.33 16.53 1.24 14.82 05-Sep-12 15.88 6241.41 6225.53 7.61 10.637 2.76 15.74 20-Dec-12 15.44 6241.41 6225.97 7.70 10.580 0.57 15.18 21-Mar-13 15.00 6241.41 6225.41 7.54 17.63 1.23 14.18 04-Sep-13 15.91 6241.41 6225.50 7.53 17.56 0.83 15.89	MW-4	05-Sep-12	17.55	6244.08	6226.53	7.42	10.05	1.97	14.61	-46.7
21-Mar-13 16.71 6244.08 6227.37 7.32 16.46 1.30 13.62 04-Sep-13 17.59 6244.08 6226.49 7.33 16.53 1.24 14.82 05-Sep-12 15.88 6241.41 6225.53 7.61 10.580 0.57 15.74 20-Dec-12 15.44 6241.41 6225.97 7.70 10.580 0.57 15.51 21-Mar-13 15.00 6241.41 6226.41 7.54 17.63 1.23 14.18 04-Sep-13 15.91 6241.41 6225.50 7.53 17.56 0.83 15.89	MW-4	20-Dec-12	17.14	6244.08	6226.94	7.45	10.14	0.90	13.92	-16.4
04-Sep-13 17.59 6244.08 6226.49 7.33 16.53 1.24 14.82 05-Sep-12 15.88 6241.41 6225.53 7.61 10.637 2.76 15.74 20-Dec-12 15.44 6241.41 6225.97 7.70 10.580 0.57 15.18 21-Mar-13 15.00 6241.41 6226.41 7.54 17.63 1.23 14.18 04-Sep-13 15.91 6241.41 6225.50 7.53 17.56 0.83 15.89	MW-4	21-Mar-13	16.71	6244.08	6227.37	7.32	16.46	1.30	13.62	-61.8
05-Sep-12 15.88 6241.41 6225.53 7.61 10.637 2.76 15.74 20-Dec-12 15.44 6241.41 6225.97 7.70 10.580 0.57 15.51 21-Mar-13 15.00 6241.41 6226.41 7.54 17.63 1.23 14.18 04-Sep-13 15.91 6241.41 6225.50 7.53 17.56 0.83 15.89	MW-4	04-Sep-13	17.59	6244.08	6226.49	7.33	16.53	1.24	14.82	-72.6
05-Sep-12 15.88 6241.41 6225.53 7.61 10.637 2.76 15.74 15.74 20-Dec-12 15.44 6241.41 6225.97 7.70 10.580 0.57 15.51 21-Mar-13 15.00 6241.41 6226.41 7.54 17.63 1.23 14.18 04-Sep-13 15.91 6241.41 6225.50 7.53 17.56 0.83 15.89										
20-Dec-12 15.44 6241.41 6225.97 7.70 10.580 0.57 15.51 21-Mar-13 15.00 6241.41 6226.41 7.54 17.63 1.23 14.18 04-Sep-13 15.91 6241.41 6225.50 7.53 17.56 0.83 15.89	MW-5	05-Sep-12	15.88	6241.41	6225.53	7.61	10.637	2.76	15.74	-105.0
21-Mar-13 15.00 6241.41 6226.41 7.54 17.63 1.23 14.18 04-Sep-13 15.91 6241.41 6225.50 7.53 17.56 0.83 15.89	MW-5	20-Dec-12	15.44	6241.41	6225.97	7.70	10.580	0.57	15.51	-106.6
04-Sep-13 15.91 6241.41 6225.50 7.53 17.56 0.83 15.89	MW-5	21-Mar-13	15.00	6241.41	6226.41	7.54	17.63	1.23	14.18	-126.7
	MW-5	04-Sep-13	15.91	6241.41	6225.50	7.53	17.56	68.0	15.89	-151.3

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Enterprise Field Services, LLC Lateral K-31 December 2011 Pipeline Release

Rio Arriba County, New Mexico

Well ID Date (ft) TOC (ft) (ft) fth (ms) Cmductivity Oxygen Temp. MW-6 05-Sep-12 17.41 6242.91 6225.50 7.38 8.370 0.90 15.48 MW-6 20-Dec-12 16.97 6242.91 6225.94 7.47 8.564 1.15 13.50 MW-6 20-Dec-12 16.97 6242.91 6225.94 7.47 8.564 1.15 13.51 MW-6 21-Mar-13 16.53 6242.91 6225.96 7.29 13.31 1.04 13.01 MW-7 21-Mar-13 17.45 6242.91 6225.46 7.29 13.31 1.04 13.01 MW-7 20-Dec-12 17.61 6243.27 6226.66 7.39 7.542 1.19 15.55 MW-7 21-Mar-13 16.74 6243.27 6225.62 7.28 12.30 1.03 14.12 MW-8 10-Bec-12 16.09 6243.27 6225.62 7.28 12.15 </th <th></th> <th></th> <th>Depth to</th> <th></th> <th></th> <th></th> <th></th> <th>Dissolved</th> <th></th> <th></th>			Depth to					Dissolved		
Date (ft) TOC (ft) (ft) pH (ms/l) (mg/l) 05-Sep-12 17.41 6242.91 6225.50 7.38 8.370 0.90 20-Dec-12 16.97 6242.91 6225.94 7.47 8.564 1.15 20-Dec-12 16.53 6242.91 6225.94 7.47 8.564 1.15 21-Mar-13 16.53 6242.91 6226.38 7.29 13.31 1.04 05-Sep-12 17.45 6242.91 6225.46 7.23 14.03 0.66 20-Dec-12 17.61 6243.27 6226.09 7.37 7.542 1.19 20-Dec-12 17.18 6243.27 6226.53 7.28 12.15 0.87 21-Mar-13 16.74 6243.27 6225.62 7.28 12.15 0.87 20-Dec-12 16.95 6242.01 6225.62 7.28 12.15 0.87 20-Dec-12 16.95 6242.01 6225.92 7.61 8.963 0.59 <			Water	Surveyed	GW Elev.		Conductivity	Oxygen	Temp.	ORP
05-Sep-12 17.41 6242.91 6225.50 7.38 8.370 0.90 20-Dec-12 16.97 6242.91 6225.94 7.47 8.564 1.15 21-Mar-13 16.53 6242.91 6225.38 7.29 13.31 1.04 21-Mar-13 16.53 6242.91 6225.46 7.23 14.03 0.66 04-Sep-12 17.61 6243.27 6225.66 7.39 7.542 1.19 20-Dec-12 17.18 6243.27 6226.09 7.37 7.567 0.75 21-Mar-13 16.74 6243.27 6226.63 7.28 12.15 0.87 04-Sep-12 17.65 6243.27 6226.63 7.28 12.15 0.87 104-Sep-13 16.55 6242.01 6225.62 7.28 12.15 0.87 20-Dec-12 16.09 6242.01 6225.92 7.61 8.963 0.59 21-Mar-13 15.55 6242.01 6225.92 7.61 8.963 0.73 <th>Well ID</th> <th>Date</th> <th>(ft)</th> <th>TOC (ft)</th> <th>(£t)</th> <th>рН</th> <th>(mS)</th> <th>(mg/r)</th> <th>(3ē)</th> <th>(mV)</th>	Well ID	Date	(ft)	TOC (ft)	(£t)	рН	(mS)	(mg/r)	(3ē)	(mV)
20-Dec-12 16.97 6242.91 6225.94 7.47 8.564 1.15 21-Mar-13 16.53 6242.91 6226.38 7.29 13.31 1.04 04-Sep-13 17.45 6242.91 6225.46 7.23 14.03 0.66 05-Sep-12 17.61 6242.91 6225.66 7.39 7.542 1.19 20-Dec-12 17.18 6243.27 6226.69 7.37 7.567 0.75 21-Mar-13 16.74 6243.27 6226.53 7.30 12.30 1.03 04-Sep-13 17.65 6243.27 6225.62 7.28 12.15 0.87 105-Sep-12 16.09 6243.27 6225.62 7.28 12.15 0.62 20-Dec-12 16.09 6242.01 6225.62 7.28 12.15 0.62 21-Mar-13 15.65 6242.01 6225.46 7.49 8.827 0.62 21-Mar-13 15.65 6242.01 6225.46 7.48 14.76 0.73 22-Dec-12 16.37 6243.01 6225.44 7.48 14.76	9-MW	05-Sep-12	17.41	6242.91	6225.50	7.38	8.370	06:0	15.48	-48.3
21-Mar-13 16.53 6242.91 6226.38 7.29 13.31 1.04 04-Sep-13 17.45 6242.91 6225.46 7.23 14.03 0.66 05-Sep-12 17.61 6243.27 6225.66 7.39 7.542 1.19 20-Dec-12 17.18 6243.27 6226.09 7.37 7.567 0.75 21-Mar-13 16.74 6243.27 6226.09 7.37 7.567 0.75 04-Sep-13 17.65 6243.27 6226.53 7.28 12.30 1.03 04-Sep-13 17.65 6243.27 6225.62 7.28 12.15 0.87 21-Mar-13 16.55 6242.01 6225.62 7.49 8.827 0.62 21-Mar-13 15.65 6242.01 6225.92 7.61 8.963 0.59 21-Mar-13 16.57 6243.01 6225.92 7.48 14.76 0.73 05-Sep-12 16.57 6243.01 6225.44 7.48 8.183 1.02 <th>9-MM</th> <th>20-Dec-12</th> <th>16.97</th> <th>6242.91</th> <th>6225.94</th> <th>7.47</th> <th>8.564</th> <th>1.15</th> <th>13.50</th> <th>-33.7</th>	9-MM	20-Dec-12	16.97	6242.91	6225.94	7.47	8.564	1.15	13.50	-33.7
04-Sep-13 17.45 6242.91 6225.46 7.23 14.03 0.66 05-Sep-12 17.61 6243.27 6225.66 7.39 7.542 1.19 20-Dec-12 17.18 6243.27 6226.69 7.37 7.567 0.75 21-Mar-13 16.74 6243.27 6226.53 7.30 12.30 1.03 04-Sep-13 17.65 6243.27 6225.62 7.28 12.15 0.87 05-Sep-12 16.55 6242.01 6225.62 7.28 12.15 0.62 20-Dec-12 16.09 6242.01 6225.46 7.49 8.827 0.62 20-Dec-12 16.09 6242.01 6225.36 7.43 14.90 1.64 04-Sep-13 16.57 6242.01 6225.44 7.48 14.76 0.73 05-Sep-12 16.34 6241.59 6225.76 7.28 8.183 1.02 20-Dec-12 15.84 6241.59 6225.75 7.24 13.10 1.93 <th>9-MW</th> <th>21-Mar-13</th> <th>16.53</th> <th>6242.91</th> <th>6226.38</th> <th>7.29</th> <th>13.31</th> <th>1.04</th> <th>13.01</th> <th>-74.3</th>	9-MW	21-Mar-13	16.53	6242.91	6226.38	7.29	13.31	1.04	13.01	-74.3
05-Sep-12 17.61 6243.27 6225.66 7.39 7.542 1.19 20-Dec-12 17.18 6243.27 6226.09 7.37 7.567 0.75 21-Mar-13 16.74 6243.27 6226.53 7.30 12.30 1.03 04-Sep-13 17.65 6243.27 6225.62 7.28 12.15 0.87 05-Sep-12 16.55 6242.01 6225.46 7.49 8.827 0.62 20-Dec-12 16.09 6242.01 6225.92 7.61 8.963 0.59 21-Mar-13 15.65 6242.01 6225.36 7.43 14.90 1.64 04-Sep-13 16.57 6243.01 6225.36 7.48 14.76 0.73 104-Sep-13 16.33 6241.59 6225.26 7.28 8.183 1.02 20-Dec-12 15.84 6241.59 6225.75 7.37 8.072 1.08 20-Dec-12 15.39 6241.59 6225.75 7.37 8.072 1.08 20-Dec-12 15.84 6241.59 6225.75 7.37 8.072	WW-6	04-Sep-13	17.45	6242.91	6225.46	7.23	14.03	99.0	14.44	-101.9
05-Sep-12 17.61 6243.27 6225.66 7.39 7.542 1.19 20-Dec-12 17.18 6243.27 6226.09 7.37 7.567 0.75 21-Mar-13 16.74 6243.27 6226.53 7.28 12.30 1.03 04-Sep-13 17.65 6243.27 6225.62 7.28 12.15 0.87 05-Sep-12 16.55 6242.01 6225.62 7.61 8.963 0.62 20-Dec-12 16.09 6242.01 6225.92 7.61 8.963 0.59 20-Dec-12 16.55 6243.01 6225.92 7.61 8.963 0.59 04-Sep-13 16.57 6243.01 6225.36 7.48 14.76 0.73 05-Sep-12 16.33 6241.59 6225.76 7.28 8.183 1.02 20-Dec-12 15.84 6241.59 6225.75 7.37 8.072 1.08 20-Dec-12 15.84 6241.59 6225.75 7.24 13.10 1.11										
20-Dec-12 17.18 6243.27 6226.53 7.37 7.567 0.75 21-Mar-13 16.74 6243.27 6226.53 7.30 12.30 1.03 04-Sep-13 17.65 6243.27 6225.62 7.28 12.15 0.87 05-Sep-12 16.55 6242.01 6225.46 7.49 8.827 0.62 20-Dec-12 16.09 6242.01 6225.92 7.61 8.963 0.59 21-Mar-13 15.65 6242.01 6226.36 7.43 14.90 1.64 04-Sep-13 16.57 6243.01 6225.36 7.43 14.76 0.73 05-Sep-12 16.33 6241.59 6225.26 7.28 8.183 1.02 20-Dec-12 15.84 6241.59 6225.75 7.37 8.072 1.08 21-Mar-13 15.39 6241.59 6225.75 7.27 13.28 1.93 20-Dec-12 15.39 6241.59 6225.75 7.27 13.10 1.11 <th>MW-7</th> <th>05-Sep-12</th> <th>17.61</th> <th>6243.27</th> <th>6225.66</th> <th>7.39</th> <th>7.542</th> <th>1.19</th> <th>15.25</th> <th>-57.2</th>	MW-7	05-Sep-12	17.61	6243.27	6225.66	7.39	7.542	1.19	15.25	-57.2
21-Mar-13 16.74 6243.27 6226.53 7.30 12.30 1.03 04-Sep-13 17.65 6243.27 6225.62 7.28 12.15 0.87 05-Sep-12 16.55 6242.01 6225.46 7.49 8.827 0.62 20-Dec-12 16.09 6242.01 6225.92 7.61 8.963 0.59 21-Mar-13 15.65 6242.01 6225.36 7.43 14.90 1.64 04-Sep-13 16.57 6243.01 6225.44 7.48 14.76 0.73 05-Sep-12 16.33 6241.59 6225.26 7.28 8.183 1.02 20-Dec-12 15.84 6241.59 6225.75 7.37 8.072 1.08 21-Mar-13 15.39 6241.59 6225.75 7.24 13.28 1.93 04-Sep-13 16.32 6242.59 6225.27 7.24 13.10 1.11	MW-7	20-Dec-12	17.18	6243.27	6226.09	7.37	7.567	0.75	14.51	-34.6
04-Sep-13 17.65 6243.27 6225.62 7.28 12.15 0.87 05-Sep-12 16.55 6242.01 6225.46 7.49 8.827 0.62 20-Dec-12 16.09 6242.01 6225.92 7.61 8.963 0.59 21-Mar-13 15.65 6242.01 6225.36 7.43 14.90 1.64 04-Sep-13 16.57 6243.01 6225.44 7.48 14.76 0.73 05-Sep-12 16.33 6241.59 6225.26 7.28 8.183 1.02 20-Dec-12 15.84 6241.59 6225.75 7.37 8.072 1.08 21-Mar-13 15.39 6241.59 6226.20 7.25 13.28 1.93 404-Sep-13 16.32 6242.59 6225.77 7.24 13.10 1.11	WW-7	21-Mar-13	16.74	6243.27	6226.53	7.30	12.30	1.03	14.12	-75.0
05-Sep-12 16.55 6242.01 6225.46 7.49 8.827 0.62 20-Dec-12 16.09 6242.01 6225.92 7.61 8.963 0.59 21-Mar-13 15.65 6242.01 6226.36 7.43 14.90 1.64 04-Sep-13 16.57 6243.01 6225.44 7.48 14.76 0.73 05-Sep-12 16.33 6241.59 6225.26 7.28 8.183 1.02 20-Dec-12 15.84 6241.59 6225.75 7.37 8.072 1.08 21-Mar-13 15.39 6241.59 6226.20 7.25 13.28 1.93 04-Sep-13 16.32 6242.59 6225.27 7.24 13.10 1.11	MW-7	04-Sep-13	17.65	6243.27	6225.62	7.28	12.15	0.87	15.09	-105.6
05-Sep-12 16.55 6242.01 6225.46 7.49 8.827 0.62 20-Dec-12 16.09 6242.01 6225.92 7.61 8.963 0.59 21-Mar-13 15.65 6242.01 6226.36 7.43 14.90 1.64 04-Sep-13 16.57 6243.01 6225.44 7.48 14.76 0.73 05-Sep-12 16.33 6241.59 6225.26 7.28 8.183 1.02 20-Dec-12 15.84 6241.59 6225.75 7.37 8.072 1.08 21-Mar-13 15.39 6241.59 6226.20 7.25 13.28 1.93 04-Sep-13 16.32 6242.59 6225.77 7.24 13.10 1.11										
20-Dec-12 16.09 6242.01 6225.92 7.61 8.963 0.59 21-Mar-13 15.65 6242.01 6226.36 7.43 14.90 1.64 04-Sep-13 16.57 6243.01 6225.44 7.48 14.76 0.73 05-Sep-12 16.33 6241.59 6225.26 7.28 8.183 1.02 20-Dec-12 15.84 6241.59 6225.75 7.37 8.072 1.08 21-Mar-13 15.39 6241.59 6226.20 7.25 13.28 1.93 04-Sep-13 16.32 6242.59 6225.27 7.24 13.10 1.11	MW-8	05-Sep-12	16.55	6242.01	6225.46	7.49	8.827	0.62	15.54	-76.3
21-Mar-13 15.65 6242.01 6226.36 7.43 14.90 1.64 04-Sep-13 16.57 6243.01 6225.44 7.48 14.76 0.73 05-Sep-12 16.33 6241.59 6225.26 7.28 8.183 1.02 20-Dec-12 15.84 6241.59 6225.75 7.37 8.072 1.08 21-Mar-13 15.39 6241.59 6226.20 7.25 13.28 1.93 04-Sep-13 16.32 6242.59 6225.27 7.24 13.10 1.11	MW-8	20-Dec-12	16.09	6242.01	6225.92	7.61	8.963	0.59	14.40	-56.8
04-Sep-13 16.57 6243.01 6225.44 7.48 14.76 0.73 05-Sep-12 16.33 6241.59 6225.26 7.28 8.183 1.02 20-Dec-12 15.84 6241.59 6225.75 7.37 8.072 1.08 21-Mar-13 15.39 6241.59 6226.20 7.25 13.28 1.93 04-Sep-13 16.32 6242.59 6225.27 7.24 13.10 1.11	MW-8	21-Mar-13	15.65	6242.01	6226.36	7.43	14.90	1.64	14.85	-90.3
05-Sep-12 16.33 6241.59 6225.26 7.28 8.183 1.02 20-Dec-12 15.84 6241.59 6225.75 7.37 8.072 1.08 21-Mar-13 15.39 6241.59 6226.20 7.25 13.28 1.93 04-Sep-13 16.32 6242.59 6225.27 7.24 13.10 1.11	MW-8	04-Sep-13	16.57	6243.01	6225.44	7.48	14.76	0.73	15.21	-132.9
05-Sep-12 16.33 6241.59 6225.26 7.28 8.183 1.02 20-Dec-12 15.84 6241.59 6225.75 7.37 8.072 1.08 21-Mar-13 15.39 6241.59 6226.20 7.25 13.28 1.93 04-Sep-13 16.32 6242.59 6225.27 7.24 13.10 1.11										
20-Dec-12 15.84 6241.59 6225.75 7.37 8.072 1.08 21-Mar-13 15.39 6241.59 6226.20 7.25 13.28 1.93 04-Sep-13 16.32 6242.59 6225.27 7.24 13.10 1.11	6-WW	05-Sep-12	16.33	6241.59	6225.26	7.28	8.183	1.02	14.95	-40.5
21-Mar-13 15.39 6241.59 6226.20 7.25 13.28 1.93 (04-Sep-13) 16.32 6242.59 6225.27 7.24 13.10 1.11	6-MM	20-Dec-12	15.84	6241.59	6225.75	7.37	8.072	1.08	14.27	-16.5
04-Sep-13 16.32 6242.59 6225.27 7.24 13.10 1.11	6-MM	21-Mar-13	15.39	6241.59	6226.20	7.25	13.28	1.93	14.00	-62.8
	WW-9	04-Sep-13	16.32	6242.59	6225.27	7.24	13.10	1.11	14.96	-84.2

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Enterprise Field Services, LLC Lateral K-31 December 2011 Pipeline Release
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene	Toluene	Ethyl- benzene	Xylenes
		μg/L	μg/L	μg/L	μg/L
	Sample Method		EPA Met	hod 8021	
И	VQCC STANDARD	10	750	750	620
MW-1	05-Sep-12	18	2.9	3.3	25
MW-1	20-Dec-12	11	<2.0	<2.0	5.8
MW-1	21-Mar-13	29	14	<2.0	6.8
MW-1	04-Sep-13	24	3.0	<2.0	10
MW-2	05-Sep-12	9.5	9.2	<2.0	30
MW-2	20-Dec-12	17	<2.0	<2.0	41
MW-2	21-Mar-13	18	<2.0	<2.0	18
MW-2	04-Sep-13	8.0	<2.0	<2.0	4.2
MW-3	05-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	21-Mar-13	<2.0	<2.0	<2.0	<4.0
MW-3	04-Sep-13	5.4	<2.0	<2.0	<4.0
MW-4	05-Sep-12	<2.0	<2.0	<2.0	<4.0
MW-4	20-Dec-12	19	<2.0	<2.0	<4.0
MW-4	21-Mar-13	4.8	<2.0	<2.0	<4.0
MW-4	04-Sep-13	<2.0	<2.0	<2.0	<4.0
MW-5	05-Sep-12	10	<2.0	<2.0	<4.0
MW-5	20-Dec-12	10	<2.0	<2.0	<4.0
MW-5	21-Mar-13	9.0	<2.0	<2.0	<4.0
MW-5	04-Sep-13	9.3	<2.0	<2.0	<4.0
MW-6	05-Sep-12	37	8.3	<2.0	14
MW-6	20-Dec-12	82	5.8	<2.0	<4.0
MW-6	21-Mar-13	130	5.1	<2.0	<4.0
MW-6	04-Sep-13	40	22	<2.0	13
MW-7	05-Sep-12	3.6	<2.0	<2.0	<4.0
MW-7	20-Dec-12	5.9	<2.0	<2.0	<4.0
MW-7	21-Mar-13	<2.0	<2.0	<2.0	<4.0
MW-7	04-Sep-13	6.2	<2.0	<2.0	<4.0

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Enterprise Field Services, LLC Lateral K-31 December 2011 Pipeline Release
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene	Toluene	Ethyl- benzene	Xylenes
		μg/L	μg/L	μg/L	μg/L
	Sample Method		EPA Met	hod 8021	
И	/QCC STANDARD	10	750	750	620
MW-8	05-Sep-12	20	<2.0	<2.0	<4.0
MW-8	20-Dec-12	25	<2.0	<2.0	<4.0
MW-8	21-Mar-13	26	<2.0	<2.0	<4.0
MW-8	04-Sep-13	34	<2.0	<2.0	<4.0
MW-9	05-Sep-12	<2.0	<2.0	<2.0	<4.0
MW-9	20-Dec-12	<2.0	<2.0	<2.0	<4.0
MW-9	21-Mar-13	<2.0	<2.0	<2.0	<4.0
MW-9	04-Sep-13	<2.0	<2.0	<2.0	<4.0

Notes:

<

Analyte not detected above listed method limit

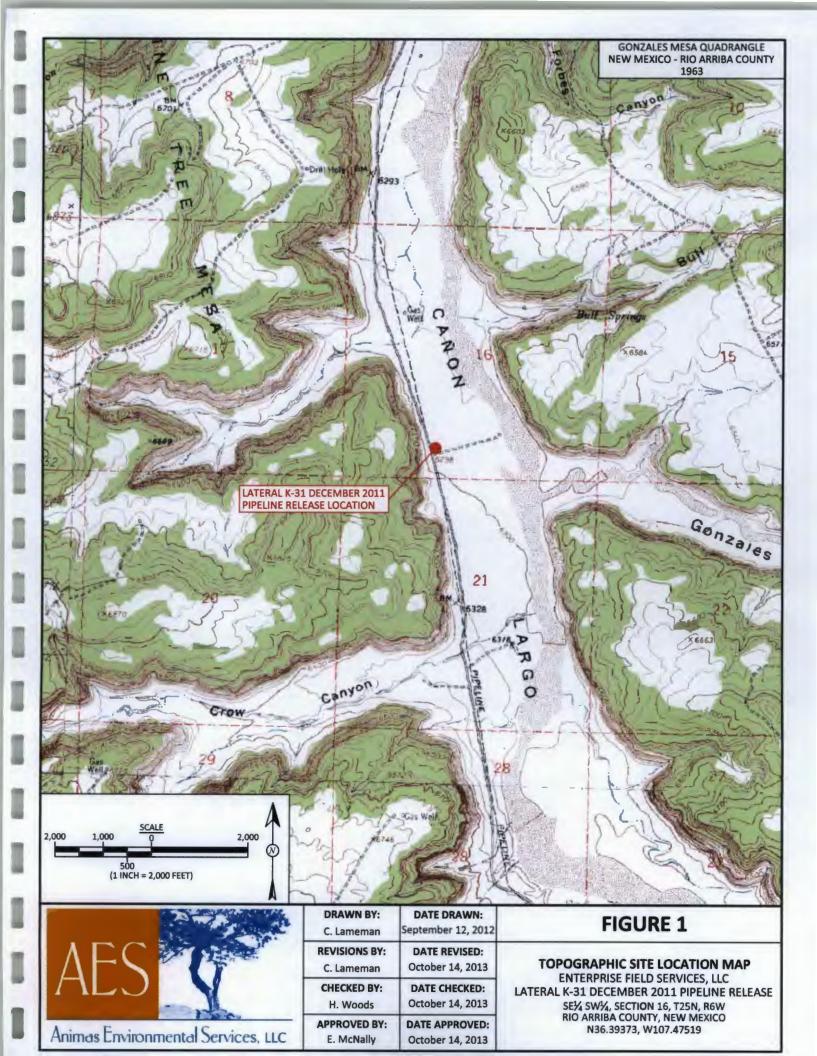
NE

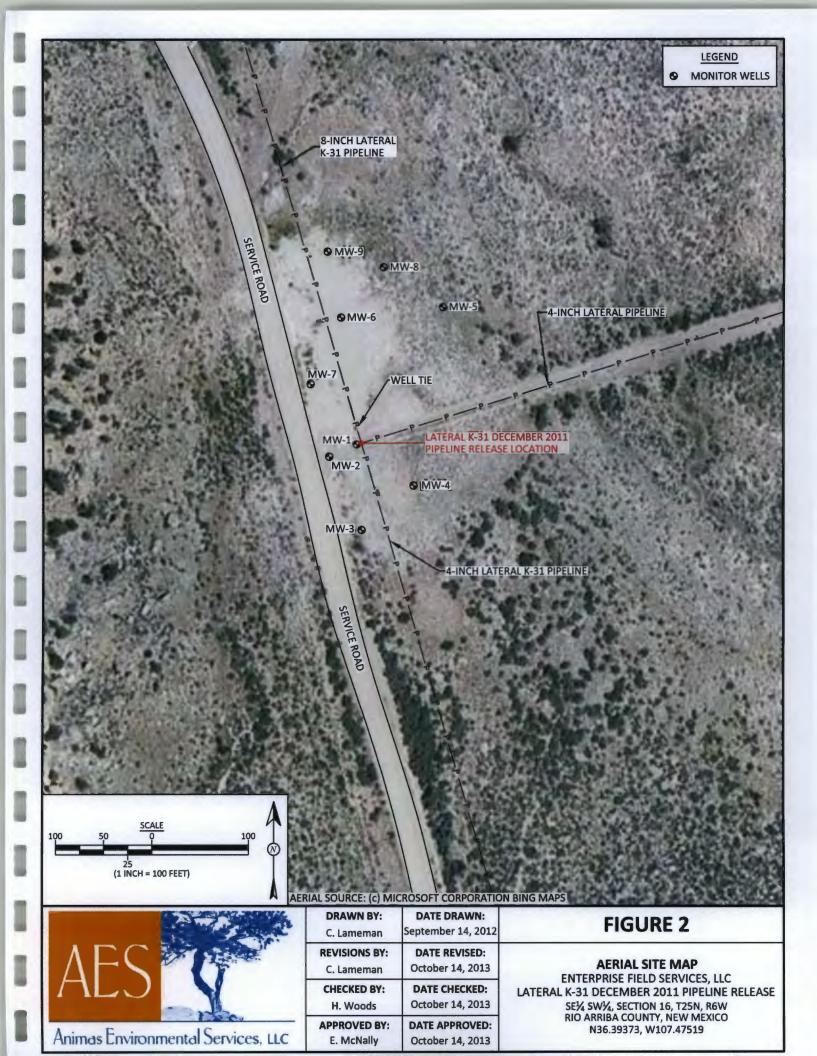
Not established

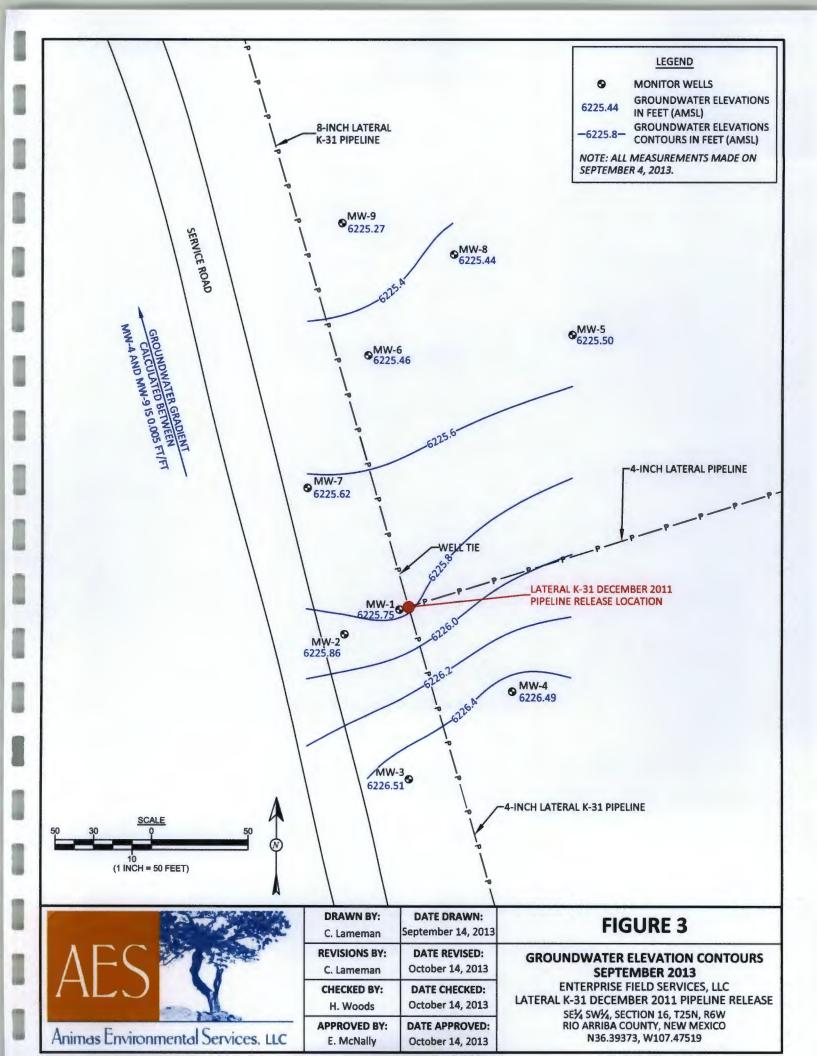
μg/L

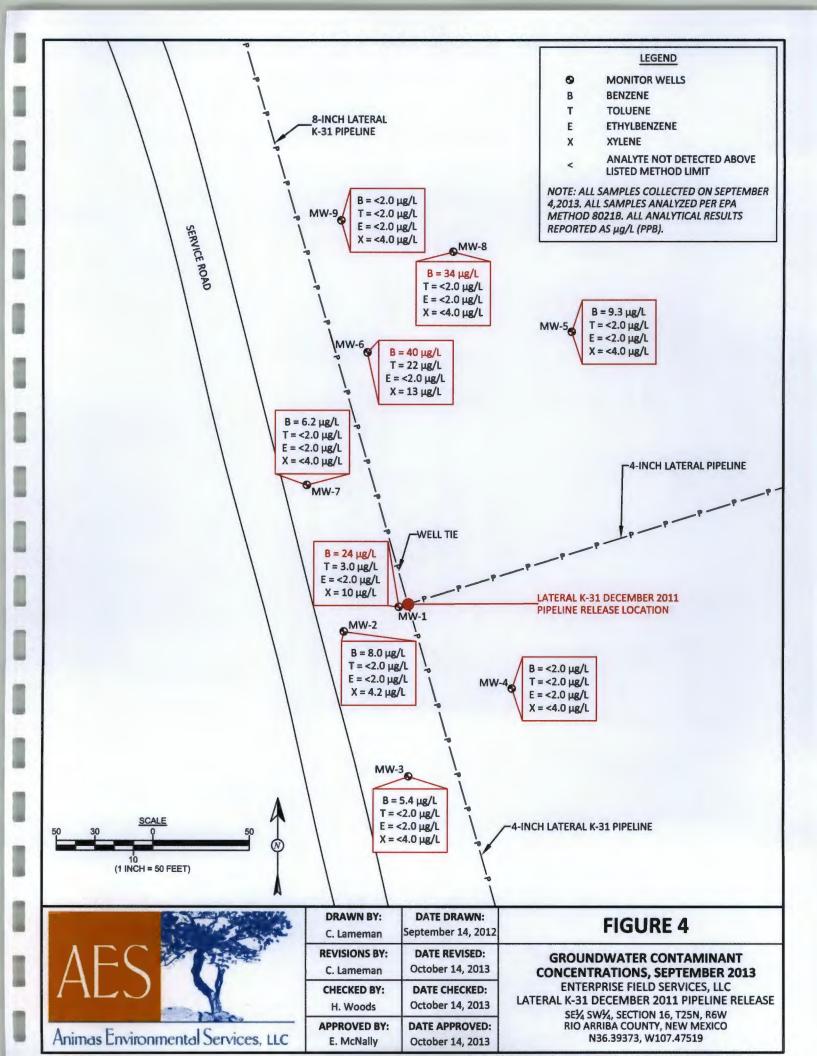
Micrograms per liter (ppb)

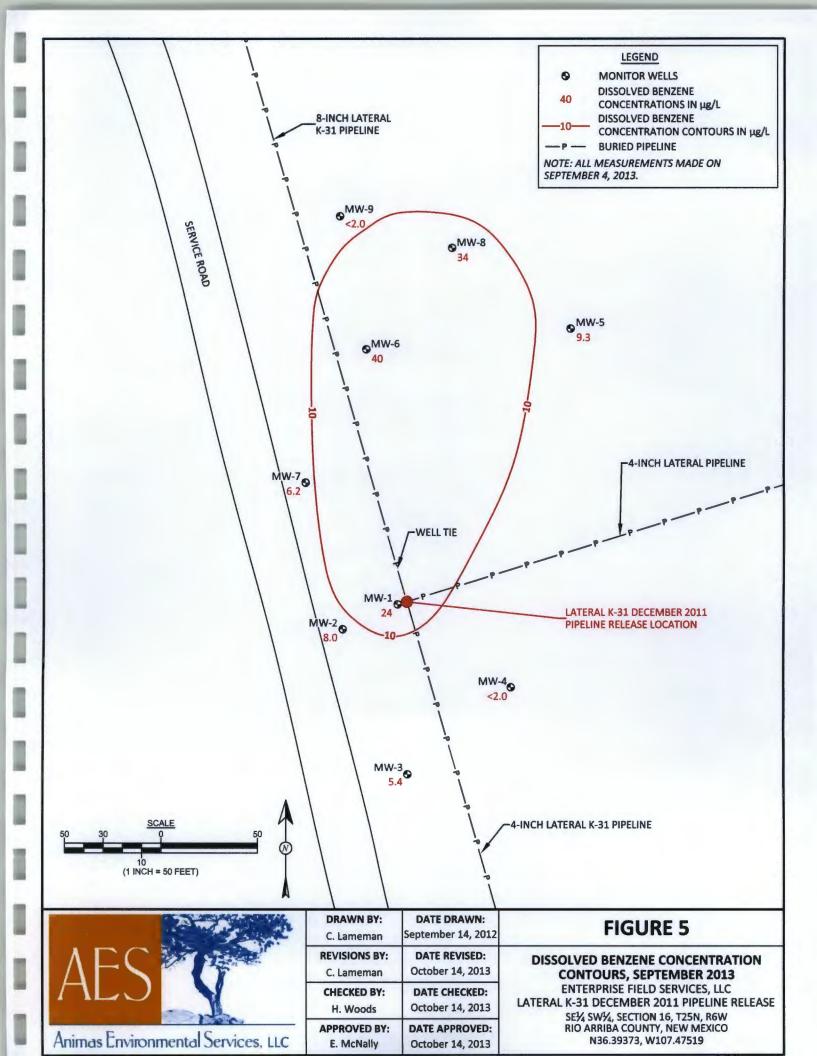
October 30, 2013











DEPTH TO GROUNDWATER MEASUREMENT FORM

Animas Environmental Services

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

		701 (808) 80 1 2202 1 411 (808) 82 1 2022
Project:	Groundwater Sampling	Project No.: AES 111120
Site:	Enterprise Field Services, LLC	Date: 04 Sept. 2013
Location:	Lateral K-31	Time: 0840
Tech:	Lamone, L.	Form:

Well I.D.	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations	
MN.3		18.97		26.07	0840
mw-q mw+		16.32		26.52	0243
MNT		17.45		24.23	0840
MWY		17.59		26.88	0852
mw.s		15.91		25.17	७१७५
onw-3		16.57		26.60	0909
mw-1		19.49		27.00	0914
MW-le		17.45		27.10	O9 2 2
mw.2		16.72		24.66	०व५८
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1					
			William Willia		
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Wells measured with KECK water level or KECK interface tape, decontaminated between each well measurement.

MON	IITORING V	VELL SAMPL	ING RECO	ORD	1	Animas Environme	ntal Services
Mon	itor Well No:	MW	-1		6	24 E. Comanche, Farmii	ngton NM 87401
				-	1	Tel. (505) 564-2281 Fax	•
Site:	Groundwater	r Sampling				Project No.: AES 1111	
		eld Services, LLC	,		-	Date: 9-4-70	
•	Lateral K-31	•			-	Arrival Time: 1405	
_	g Technician:	Lamone	L.		-	Air Temp: 940 F	
•	e / No Purge:				т.о	.C. Elev. (ft): 6245	
-	Diameter (in):	2				ell Depth (ft): 27.0	
	al D.T.W. (ft):	19.49	Time:	0910		(taken at initial gaugin	
	n D.T.W. (ft):		Time:	140		(taken prior to purging	- •
Fina	al D.T.W. (ft):		Time:	1423		(taken after sample co	llection)
	• •	D.T.P.:	•	:		kness: Time	
		Water Quali	ty Paramet	ers - Rec	orded Du	uring Well Purging	
	Temp	Conductivity	DO		ORP	PURGED VOLUME	
Time	(deg C)	(μS) (mS)	(mg/L)	pH	(mV)	(see reverse for calc.)	Notes/Observations
1415	16.04	12.55	0.89	7.39	127.6	1st Builer	Clean
	14.93	12.54	0.55			15.0	
1418				7.38	-132.9	1.5 gax	gray / black tle
1421	14.52	12.46	5.97	734	7263	2.5 gal.	black Hro
1425	14.70	12.55	11.13		-120.7	/ _ /	black Hzo
1427	17,60	6.453	9.84	7.40	115.8	Same bailer	black 1120
<i>F</i>	Analytical Para	ameters (includ	e analysis r	nethod a	nd numl	per and type of sample	containers)
			STEX 8021B	(3x40mi	VOA w/	/ HCL)	
		Disposal of Pure	ed Water:	Tota	55	al. drum - to la	nd farm
Col		es Stored on Ice			_	w. 47474 /- CC	10 1000
COI				<u> </u>			
	Chain of C	Custody Record			`		A !! A !!- 4
		•				tal Analysis Laboratory,	
Equip	ment Used Du				Keck Int	terface Level, YSI Water	Quality Meter
		and Ne	w Disposab				
Notes/Com	ments:		nw	has	soot	like omher in	well
7.5	0 H20 0	olumn	Sme	115 like	Hz	like amber in	not registar
1.22	<u>U H20 0</u> - H20 V	olume	hic	h bu	US.		,
3,50	TO BO	pursed	1	,			
revised: 08	/10/09	1 1	1				

MON	IITORING V	VELL SAMPLI	ING RECO	ORD	/	Animas Environme	ntal Services
Mon	itor Well No:	MW	-2		6	24 E. Comanche, Farmi	ngton NM 87401
				-	ł	Tel. (505) 564-2281 Fax	_
Site:	Groundwater	Sampling				Project No.: AES 1111	
	******	eld Services, LLC	•		-	Date: 9-4-20	
Project.	Lateral K-31				-	Arrival Time: 1253	(1212 Sansale)
Samplin	g Technician:	laneane 1			-	Air Temp: 92° F	13/3 Jung 2
Purg	e / No Purge:	Percar.			Т.С).C. Elev. (ft): 624	2.58
Well [Diameter (in):	lamone, L Purge		-		ell Depth (ft): 24.0	
Initi	al D.T.W. (ft):	14.72	Time:	D942	_	(taken at initial gaugin	g of all wells)
Confir	m D.T.W. (ft):	16:171	Time:	1256		taken prior to purging	well)
Fin	al D.T.W. (ft):	18.90	Time:	13//		(taken prior to purging (taken after sample co	llection)
If N	NAPL Present:	D.T.P.:	D.T.W.	.:	Thic	kness: Tim	e:
		Water Quali	ty Paramet	ers - Reco	orded Du	uring Well Purging	
	Temp	Conductivity	DO		ORP	PURGED VOLUME	
Time	(deg C)	(μS) (mS)	(mg/L)	pН	(mV)	(see reverse for calc.)	Notes/Observations
1301	16.17	13.92	1.21	7.38	-167.9	1st Bailee	Clean Hro
1304	15.30	13.93	1.05		-102.9		It Tan H20
1307	14.67	13.91	,99	1	-99.9	20 aul.	Lt Tan H20
1309	14.48	13.90	1.39		-100.2		Ct Tan H20
1313	14.63	13.89	11.66		-99.2	40 Jul	Ut Tan Hzo
	1					10 300	
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~						:
ļ	Analytical Para	ameters (includ	e analysis r	method a	nd numi	per and type of sample	containers)
		F	3TEX 8021B	3 (3 v/10 m l	VOA w	(HCI)	
			JILN OUZIL	7 (37-01111	. VOA W/	TICLY	
		Disposal of Purg	ed Water:	Into	55 44	l. drum delivere	d to budlarm
Còl	lected Sample	es Stored on Ice	in Cooler:	Vac		2. 01. 01. 451.051	
		Custody Record		To c			
			•	Hall Fnvi	ronment	al Analysis Laboratory,	Albuquerque, NM
Equip	ment Used Du					erface Level, YSI Water	
	2234 24	-	w Disposab			Levely 151 Water	
Notes/Com	ments:	<u></u>	l Du		n.o.st	tunderstom.	
	Hzo colum	u			well .		undel
	tzo volu		41	. 7	and.	nu, vurien	11/40
40 -	1 1 1 . 1 .	nue 1	1 /	<u> </u>			
revised: 08	xi. to be 1/10/09	purgea	1				

MON	IITORING V	VELL SAMPI	ING RECO	ORD	/	Animas Environme	ental Services
Mon	itor Well No:	MW	<i>I</i> -3		6	24 E. Comanche, Farm	ington NM 87401
				_		Tel. (505) 564-2281 Fax	<del>-</del>
Site:	Groundwate	r Sampling			1	Project No.: AES 111:	
		eld Services, LL	С		•	Date: 9-4-	
Project:	Lateral K-31			·····	-	Arrival Time: 094	
Samplin	g Technician:	Lamor	ie, L.		•	Air Temp: 80°	F
Purg	e / No Purge:	Purge 2	/		T.C	o.C. Elev. (ft): 624	5.48
Well [	Diameter (in):	_		_	Total We	ell Depth (ft): 26	.07
Initia	al D.T.W. (ft):	18.97	Time:	0840	)	(taken at initial gaugii	ng of all wells)
	m D.T.W. (ft):			1000		(taken prior to purging	
	al D.T.W. (ft):			1024		_(taken after sample co	
If N	IAPL Present:	D.T.P.:	D.T.W.	· •	Thic	kness: Tin	ne:
		Water Qual	ity Paramet	ers - Rec	orded Du	ring Well Purging	
	Temp	Conductivity	DO		ORP	PURGED VOLUME	
Time	(deg C)	(μS) (mS)	(mg/L)	рН	(mV)	(see reverse for calc.)	Notes/Observations
1008	14.75	11.87	1.08	7.35	-105.4	1st Buler	Clear HZO
1011	1405	11.97	0.82	7.32	-108.5	1.5 gal.	
1018	13.96	12.03	7.88	7.31	-105.0	2.5 gal.	Tan N20
1022	14.10	12.26	1.20	7.29	-145	1.5 gol. 2.5 gol. 3.5 gol.	Tan H20 Tan H20 Tan H20
						J	
۱ م	Analytical Para	ameters (includ	de analysis r	nethod a	nd numi	per and type of sample	containers)
			BTEX 8021B	/2v/0ml	VOA w/	/ HCI )	
		, · · · · · · · · · · · · · · · · · · ·	DIEX OUZIE	(3X4UIII	. VOA W/	ncty	
					T		
		Disposal of Pur	ged Water:	Into 5	5 gal.	drum to LANDFA	cm
Col		es Stored on Ic		1/00			····
	Chain of C	Custody Record	Complete:	ye	5		
		Analytical I	Laboratory:	Hall Envi	ronment	al Analysis Laboratory,	Albuquerque, NM
Equipr	ment Used Du	ring Sampling:	Keck Water	r Level or	Keck Int	erface Level, YSI Wate	r Quality Meter
		and No	ew Disposab	le Bailer		***	
Notes/Com	ments:						
7.10 9	al. H20 Col	umn					***************************************
<u>):14</u>	Hzv Volu	ne					
3.5 a	ul. 10. be	pursed					
revised: 08	/10/09	10					

MON	IITORING V	<b>WELL SAMPLI</b>	NG RECO	ORD	/	Animas Environme	ntal Services	
Mon	nitor Well No:	MW-	-4		6	524 E. Comanche, Farmii	ngton NM 87401	
,			-	-	1	Tel. (505) 564-2281 Fax	_	
Site	: Groundwater	r Sampling				Project No.: AES 1111		
1		eld Services, LLC			•	Date: 9-4-201	(12 m	
•	Lateral K-31				-	Arrival Time: 1/36		
	ng Technician:	· Lamone,	L		•	Air Temp: 36° F		
Purg	ge / No Purge:	Puze 2				O.C. Elev. (ft): 6244	4.08	
	Diameter (in):			7	Total We	ell Depth (ft): 24.8	3 8	
i .	ial D.T.W. (ft):	17.59	Time:	0852		(taken at initial gaugin		
	m D.T.W. (ft):		Time:	1139		(taken prior to purging		
1	al D.T.W. (ft):	17.75	-	1200		_(taken after sample col		
lf N	IAPL Present:	D.T.P.:	D.T.W	···	Thic	ckness: Time	e:	
		Water Qualit	ty Paramet	ers - Rec	orded Du	uring Well Purging		
	Temp	Conductivity	DO		ORP	PURGED VOLUME		
Time	(deg C)	(μS) (mS)	(mg/L)	рH	(mV)	(see reverse for calc.)	Notes/Observations	
1148	16.62	16.05	4.79	7.39	-85.3	1st Bailen	Cleur Hzo	
1151	15.0 le	16.11	0.89	7.34	-80.3		Tan H20	
1153	14.59	16.27	8.88	7.33	-82.6	20 mel	Tan N20	
11578	14.73	16.43	1.27	7.34	-84·le	20 gol 30 gal	Tan HZD	
1206	14.82	16.53	1.24		726	4.50 gw	Tan Has	
144		16.72		ررنا	100	1.02	(am 1)	
				<del> </del>				
	Analytical Para	ameters (include	e analysis r	method a	nd numb	ber and type of sample	containers)	
		· B	BTEX 8021B	3 (3x40ml	_ VOA w/	/ HCL)		
•								
		Disposal of Purg	ed Water:	Inte	55 gs	al drum delive	erd to landary	
Col		es Stored on Ice						
	Chain of C	Custody Record (	Complete:	185				
		-		<del></del>	ronment	tal Analysis Laboratory,	Albuquerque, NM	
Equipr	ment Used Du	•	٠.			terface Level, YSI Water		
-			w Disposab				American	
Notes/Com	ments:		1			· · · · · · · · · · · · · · · · · · ·	A-4	
9.75	2 Hza 60	Jumn						
1.51	Han Vole	AMAP					1.000.000	
4.5	1 sel to	h. word	,					
revised: 08	3/10/09	the junger					- Maria	

MON	IITORING V	WELL SAMPLI	ING RECO	ORD		Animas Environme	ental Services
Mon	nitor Well No:	MW	/-5		6	524 E. Comanche, Farmi	ngton NM 87401
				-		Tel. (505) 564-2281 Fax	-
	Groundwater				<del></del>	Project No.: AES 1111	
		ield Services, LLC	-			Date: 9-4-20	
-	Lateral K-31			-		Arrival Time: 12/4	(1237 Sample
	ng Technician:		<u>2.</u>		,	Air Temp: <u>92°F</u>	
_	ge / No Purge: Diameter (in):	- Varge	<u>.</u>	-		O.C. Elev. (ft): 624:	
	Diameter (in): ial D.T.W. (ft):		Time:	_		ell Depth (ft): 25 (taken at initial gaugin	
	m D.T.W. (π):		_	1218		taken at initial gaugin) (taken prior to purging)	
1	al D.T.W. (ft):		_	12.35		taken after sample co 	•
	NAPL Present:		_	·:		<del></del> '	ne:
						uring Well Purging	
	Temp	Conductivity	DO		ORP	PURGED VOLUME	
Time	(deg C)	(μS) (mS)	(mg/L)	рH	(mV)	(see reverse for calc.)	Notes/Observations
1225	17.47	17.50	0.48	7.58	-171.1	1st Builen	Clear Hzo
1227	16.08	17.48	0.69		-160.8	1 1	Lt Tan Hro
1230	15.93	17.45	0.64		155.2		t Tan 1/20
1232	15.77		0.74		152.7		Ut Tan Hzu
1237	15.89	17.56	0.83		-151.3	4.50 gal.	1+ Tan 1/20
						1	100 01
							***************************************
							- dubries - mandration - were market as a second
	Analytical Par	meters (includ	e analysis ı	method a	nd num!	ber and type of sample	containers)
	Mary Liver 1 a		-		· · · · · · · · · · · · · · · · · · ·		Contamers
		<u> </u>	BTEX 8021B	; (3x40mL	<u>- VOA w/</u>	/ HCL)	
	•						
	<u> </u>						
					<u>55 gal</u>	1. drum delived	to land form
Col	lected Sample	les Stored on Ice	in Cooler:	Yes			
	Chain of C	Custody Record	Complete:	_xes	<u> </u>		- William Control
		Analytical La	aboratory:	Hall Envi	ronment	tal Analysis Laboratory,	Albuquerque, NM
Equip	ment Used Du	ring Sampling:	Keck Water	r Level or	Keck Int	terface Level, YSI Water	Quality Meter
<u></u>		and Ne	w Disposab	le Bailer			
Notes/Com	ments:						
9.24	Hzv Q	Huma					
1.51	1+20 V	Colume					
4.50	al. Pr	ince of				***************************************	
revised: 08	3/19/09	Myru				<del></del>	

MON	IITORING V	VELL SAMPL	ING RECO	ORD	/	Animas Environme	ntal Services
Mon	itor Well No:	MW	<b>'-6</b>		6	24 E. Comanche, Farmi	ngton NM 87401
				_		Tel. (505) 564-2281 Fax	_
Site:	Groundwate	r Sampling	· · · · · · · · · · · · · · · · · · ·		1	Project No.: AES 1111	
		eld Services, LLC	-		-	Date: 9-4-7	
	Lateral K-31	<u>, , , , , , , , , , , , , , , , , , , </u>			-	Arrival Time:	
Samplir	ng Technician:	lamone, L	- 1		-	Air Temp: 97°F	
Purg	e / No Purge:	Purge			т.с	o.C. Elev. (ft): 6242	
Well I	Diameter (in):	lamone, L furge 2		- -	Total We	ell Depth (ft): <u>27,/</u>	0
Initi	al D.T.W. (ft):	17.45	Time:	0932		(taken at initial gaugin	g of all wells)
Confir	m D.T.W. (ft):	17.45	Time:	1440	2	(taken prior to purging	well)
Fin	al D.T.W. (ft):	18.00	_ Time:			(taken after sample co	
If N	IAPL Present:	D.T.P.:	D.T.W.	•	Thic	kness: Tim	e:
		Water Quali	ty Paramet	ers - Rec	orded Du	uring Well Purging	
	Temp	Conductivity	DO		ORP	PURGED VOLUME	
Time	(deg C)	(μS) (mS)	(mg/L)	рН	(mV)	(see reverse for calc.)	Notes/Observations
1448	16.06	14.27	0.94	7.33	1037	1st Barlen.	Clean 420
1450	15.24	14.11	0.96		104.4		Clan - Ut Tan His
1452	14.77	10.50	6.95	I	1027	276 gl	Ut Tun Hzo
1454	14,19	13.98	6.97	7.24	99.3		& Tan Hro
1458	14.44	14.03	0.66	7.23	701.9	11-de = 0 -	Lt Tan H20
1130	1-1-17	11.05	0.00	1.25	101.7	7.35 32 -	Li Tan II Co
							***************************************
	nalytical Bar	motors (includ	o analysis r	nothod a	nd numb	per and type of sample	containers)
····	Maiyucai Para	ameters (includ	e allalysis i	nethou a	na nam	ber and type or sample	Containers
			BTEX 8021B	(3x40ml	_VOA w/	HCL)	
	., .						
	[	Disposal of Purg	ged Water:	Into 5	5 gal.	drum delivered	to land farm
Col		es Stored on Ice			J		
	Chain of C	ustody Record	Complete:	Yes			
			•	Hall Envi	ronment	al Analysis Laboratory,	Albuquerque, NM
Equipr	nent Used Du	-	•			erface Level, YSI Water	
1 (12.1			w Disposab				
Notes/Com	ments:	4.					•
				<del></del>			
	the colum. The volum						
1.5 +	tro volun	ie					
<u> </u>	<u>6 be perse</u> 110/09	d					

MONITORING WELL SAMPLING RECORD				ORD	Animas Environmental Services				
Mor	nitor Well No:	MW	-7		6	524 E. Comanche, Farmii	ngton NM 87401		
				-		Tel. (505) 564-2281 Fax	(505) 324-2022		
Site	: Groundwater	r Sampling			1	Project No.: AES 1111			
		ield Services, LLC	-	**************************************	-	Date: 9-4-70	13		
	: Lateral K-31				-	Arrival Time: 1107	(1127 Sample)		
Samplir	ng Technician:	lamone, l	L.			Air Temp: 83°F			
Purg	e / No Purge:	Purge 2	棋			O.C. Elev. (ft): 6243	3.27		
Well I	Diameter (in):	2				ell Depth (ft): 26. 2	<del></del>		
Initi	al D.T.W. (ft):	17.65	_ Time:	0847	8	_(taken at initial gaugin	- '		
Confir	m D.T.W. (ft):	17.65	Time:	_1111_		_(taken prior to purging			
		17.85	-	1125		_(taken after sample col			
lf N	IAPL Present:	D.T.P.:	D.T.W.	· <b>:</b>	Thic	ckness: Time	e:		
		Water Quali	ty Paramet	ers - Rec	orded Dı	uring Well Purging			
	Temp	Conductivity	DO		ORP	PURGED VOLUME			
Time	(deg C)	(μS) (mS)	(mg/L)	рН	(mV)	(see reverse for calc.)	Notes/Observations		
lile	14.49	11.98	2.84	7.35	7/15.7	12t Barba	Clear HZO		
1118	15.44	12.09	0.78	7.30	710.3	1.0 gal.	Tan Hzo		
1120	15.05	1190	3.57	7.29	7084	20 gal	Fan Hzo		
1123	14.88	12.13	0.78		1 -		Tan Hzo		
1127	15.09	12.15	087	7.28	-105.4	3.0 gal 4.25 gd	Lt Tan Hzo		
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			, ,	, , , , ,				
							7888		
		· · · · · · · · · · · · · · · · · · ·				·			
<i>P</i>	inalytical Para	ameters (include	e analysis r	nethod a	ind numi	ber and type of sample	containers)		
		F	BTEX 8021B	3 (3x40m)	L VOA w/	/ HCL)			
	1	Disposal of Purg	ged Water:	Tuto 5	55 gal.	drum deliverd	te land Farm		
Col	llected Sample	es Stored on Ice	in Cooler:	415	- 0	1			
		Custody Record							
				$\overline{}$	ironmen	tal Analysis Laboratory,	Albuquerque, NM		
Equip	ment Used Du	ring Sampling:	Keck Wate	r Level o	r Keck Int	terface Level, YSI Water	Quality Meter		
			w Disposab						
Notes/Com	ments:								
8.58	the colum	mn							
1.40	the column the solumn	.ml							
4.25	gal.								
revised N	3/10/09								

MONITORING WELL SAMPLING RECORD					Animas Environmental Services				
Mon	itor Well No:	MW	-8		6	24 E. Comanche, Farmi	ngton NM 87401		
			10 Table 1	-	1	Tel. (505) 564-2281 Fax	_		
Site:	Groundwater	Sampling				Project No.: AES 1111			
Location:	Enterprise Fie	eld Services, LLC			Date: 9-4-2013				
Project:	Lateral K-31				Arrival Time: 1328 1352 Saupe				
Samplin	g Technician:	Lamone	e. La		_	Air Temp: 94° F			
Purg	e / No Purge:	Lamone Purge 2	,	**	T.C	O.C. Elev. (ft): 6242	2.01		
	Diameter (in):				Total We	ell Depth (ft): 24.0			
	al D.T.W. (ft):		Time:	090		(taken at initial gaugin	• • •		
	m D.T.W. (ft):	<del></del>	. Time:	1330		(taken prior to purging	· · · · · · · · · · · · · · · · · · ·		
	al D.T.W. (ft):		Time:	_135/		(taken after sample co			
If N	IAPL Present:	D.T.P.:	D.T.W.	·:	Thic	kness: Tim	e:		
	Water Quality Parameters - Recorded During Well Purging								
	Temp	Conductivity	DO		ORP	PURGED VOLUME			
Time	(deg C)	(μS) (mS)	(mg/L)	рН	(mV)	(see reverse for calc.)	Notes/Observations		
1337	17.54	13.31	11.66	7.75	175.1	(see reverse for calc.)  15th Burlen  1.5 gal.  2.5 gul  3.5 gul.  4.5 gal  5.5 gul	Clear H20		
1340	15.91	13.88	1.08	7.68	162.9	1.5 gal.	Tan Hzo		
1312	15.40	14,52	5.82		-141.2	2.5 gul	Tan Hzo Sight Seen		
1346	15.30	14.84	0.69	7.47	-131.6	3.5 gal.	Tan 1/20		
1349	1538	14.56	0.77	7.52	-140.2	4.5 gal	Ton H20		
1352	15.21	14.76	0.73	7.48	- 1329	5.5 gul	Tan H20		
			***********						
				L	<u> </u>				
	Analytical Para	ameters (includ	e analysis i	method a	nd numl	ber and type of sample	containers)		
			BTEX 8021E	3 (3x40ml	L VOA w/	/ HCL)			
		Disposal of Purg	ged Water:	Toto 5	5 gal,	drum to ETech	'n landfarm		
Col	llected Sample	es Stored on Ice	in Cooler:	Yes	<del>/-</del>				
		Custody Record		7					
				_ [ /	ronment	tal Analysis Laboratory,	Albuguerque, NM		
Eauipi	ment Used Du					terface Level, YSI Water			
-40.61			w Disposab						
Notes/Com	ments:								
11.02	,	14 10 4 10		ALATEU	····				
1.80	Hzo Va	huma							
5.50 6		Quant.							
revised: 08	<u>m. To pe</u> 3/10/09	pages,							

MONITORING WELL SAMPLING RECORD				ORD	Animas Environmental Services				
Mon	itor Well No:	MW	-9		6	24 E. Comanche, Farmir	ngton NM 87401		
				-		Tel. (505) 564-2281 Fax	(505) 324-2022		
Site	Groundwater	r Sampling			<del></del>	Project No.: AES 1111	20		
Location:	Enterprise Fi	eld Services, LLC			Date: 9.4-2013				
Project:	Lateral K-31				Arrival Time: 1030 (1057 Sample)				
Samplin	ng Technician:	lamone, L	_			Air Temp: 83°F			
Sampling Technician: \(\(\text{\amone}, \) \(\text{\amone}, \) Air Temp: \(\text{\gamma} \text{\gamma}^* \) F  Purge / No Purge: \(\text{\gamma} \text{\gamma} \gamm									
1				-	Total We	ell Depth (ft): 26.5Z			
		16.32		0843		(taken at initial gaugin			
Confir	m D.T.W. (ft):	16.32	Time:	1035		•	-		
		14.40		1058			· ·		
IT P	NAPL Present:					ckness: Time	e:		
		Water Qualit	ty Paramet	ers - Rec	orded Du	uring Well Purging			
	Temp	Conductivity	DO		ORP	PURGED VOLUME			
Time	(deg C)	(μS) (mS)	(mg/L)	pН	(mV)	(see reverse for calc.)	Notes/Observations		
1042	15.79	12.79	244	7.34	-101.3	1st Bailen	Clean Hzo		
1045	14.77	12.84	1.80	7.29	-95.1	1.0 gal.	Clem H20		
1048	15.08	12.84	6.83	7.27	94.2	2.0 gal	Tan/Silt H20		
1050	14.65	11.35	9.93	7.23	-93.5	3.0 cal	Tan H20		
1053	14.66	13.05	2.03	7.24	90.5	1.0 gal. 2.0 gal 3.0 gal 4.0 gal. 5.0 gal	Tom Han		
1057	14.56	1310	1.11		-81.2	5.0.0	Tan H20 Tan H20		
(0) 1	(1,)4	1940	(-1)	1.21	01.2	3.0 5.00	1 am +1 20		
,	Analytical Para	ameters (includ	e analysis ı	method a	nd numi	ber and type of sample	containers)		
			BTEX 8021E	3 (3x40ml	L VOA w	/ HCL)			
		Disposal of Purg	ged Water:	Into 5	5 act	l. drum to La	nd Farm		
Co		es Stored on Ice			- 5				
	_	Custody Record		<del></del>					
		-	•		ronmen	tal Analysis Laboratory,	Albuquerque, NM		
Fauin	ment Used Du	•	-			terface Level, YSI Water			
Equip	ment osed bu		w Disposab		NCCK III	condec Levely 157 Trates	- Saute Miles		
Notes/Com	ments:	1	oposan						
10.20							/ / ////		
	Han colo	amn							
1.66	1720 VO	ume							
revised: 08	3/10/09	e progres							



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

September 12, 2013

Heather Woods
Animas Environmental Services
624 East Comanche
Farmington, NM 87401
TEL: (505) 716-2787

TEL: (505) 716-2787 FAX (505) 324-2022

RE: Enterprise Lateral K-31 OrderNo.: 1309239

#### Dear Heather Woods:

Hall Environmental Analysis Laboratory received 10 sample(s) on 9/6/2013 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 <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> 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,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

## Lab Order 1309239

Date Reported: 9/12/2013

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Animas Environmental Services

Project: Enterprise Lateral K-31

Lab ID:

1309239-001

Matrix: AQUEOUS

Collection Date: 9/4/2013 2:25:00 PM

Client Sample ID: MW-1

Received Date: 9/6/2013 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	t: RAA
Benzene	24	2.0	μg/L	2	9/9/2013 4:50:28 PM	R13247
Toluene	3.0	2.0	μg/L	2	9/9/2013 4:50:28 PM	R13247
Ethylbenzene	ND	2.0	μg/L	2	9/9/2013 4:50:28 PM	R13247
Xylenes, Total	10	4.0	μg/L	2	9/9/2013 4:50:28 PM	R13247
Surr: 4-Bromofluorobenzene	110	85-136	%REC	2	9/9/2013 4:50:28 PM	R13247

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

- * 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 Do
  - P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

## Lab Order 1309239

Date Reported: 9/12/2013

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Animas Environmental Services

Project: Enterprise Lateral K-31

Lab ID: 1309239-002

Client Sample ID: MW-2

**Collection Date:** 9/4/2013 1:13:00 PM

Received Date: 9/6/2013 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	t: RAA
Benzene	8.0	2.0	μg/L	2	9/9/2013 5:20:41 PM	R13247
Toluene	ND	2.0	μg/L	2	9/9/2013 5:20:41 PM	R13247
Ethylbenzene	ND	2.0	μg/L	2	9/9/2013 5:20:41 PM	R13247
Xylenes, Total	4.2	4.0	μg/L	2	9/9/2013 5:20:41 PM	R13247
Surr: 4-Bromofluorobenzene	107	85-136	%REC	2	9/9/2013 5:20:41 PM	R13247

Matrix: AQUEOUS

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

- * 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
  - Page 2 of 11
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Lab Order 1309239

Date Reported: 9/12/2013

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Animas Environmental Services

**Project:** Enterprise Lateral K-31

1309239-003

Lab ID:

Client Sample ID: MW-3

Collection Date: 9/4/2013 10:22:00 AM

Received Date: 9/6/2013 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	t: RAA
Benzene	5.4	2.0	μg/L	2	9/9/2013 5:50:50 PM	R13247
Toluene	ND	2.0	μg/L	2	9/9/2013 5:50:50 PM	R13247
Ethylbenzene	ND	2.0	μg/L	2	9/9/2013 5:50:50 PM	R13247
Xylenes, Total	ND	4.0	μg/L	2	9/9/2013 5:50:50 PM	R13247
Surr: 4-Bromofluorobenzene	103	85-136	%REC	2	9/9/2013 5:50:50 PM	R13247

Matrix: AQUEOUS

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

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
  - Page 3 of 11
- P Sample pH greater than 2 for VOA and TOC only.
- RLReporting Detection Limit

Lab Order 1309239

Date Reported: 9/12/2013

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Animas Environmental Services

Project: Enterprise Lateral K-31

Lab ID: 1309239-004

Client Sample ID: MW-4

Collection Date: 9/4/2013 12:06:00 PM

Received Date: 9/6/2013 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	t: RAA
Benzene	ND	2.0	μg/L	2	9/9/2013 8:22:14 PM	R13247
Toluene	ND	2.0	μg/L	2	9/9/2013 8:22:14 PM	R13247
Ethylbenzene	ND	2.0	μg/L	2	9/9/2013 8:22:14 PM	R13247
Xylenes, Total	ND	4.0	μg/L	2	9/9/2013 8:22:14 PM	R13247
Surr: 4-Bromofluorobenzene	107	85-136	%REC	2	9/9/2013 8:22:14 PM	R13247

Matrix: AQUEOUS

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

- 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
  - Sample pH greater than 2 for VOA and TOC only.
  - RL Reporting Detection Limit

## Lab Order 1309239

Date Reported: 9/12/2013

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Animas Environmental Services

**Project:** Enterprise Lateral K-31

1309239-005

Lab ID:

Client Sample ID: MW-5

Collection Date: 9/4/2013 12:37:00 PM

Matrix: AQUEOUS Received Date: 9/6/2013 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES	. ,				Analys	t: RAA
Benzene	9.3	2.0	μg/L	2	9/9/2013 8:52:27 PM	R13247
Toluene	ND	2.0	μg/L	2	9/9/2013 8:52:27 PM	R13247
Ethylbenzene	ND	2.0	μg/L	2	9/9/2013 8:52:27 PM	R13247
Xylenes, Total	ND	4.0	μg/L	2	9/9/2013 8:52:27 PM	R13247
Surr: 4-Bromofluorobenzene	110	85-136	%REC	2	9/9/2013 8:52:27 PM	R13247

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

- * 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 Page 5 of 11
  - P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Lab Order 1309239

Date Reported: 9/12/2013

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Animas Environmental Services

Project: Enterprise Lateral K-31

Lab ID: 1309239-006 Client Sample ID: MW-6

Collection Date: 9/4/2013 2:58:00 PM

Received Date: 9/6/2013 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	t: RAA
Benzene	40	2.0	μg/L	2	9/9/2013 9:22:35 PM	R13247
Toluene	22	2.0	μg/L	2	9/9/2013 9:22:35 PM	R13247
Ethylbenzene	ND	2.0	μg/L	2	9/9/2013 9:22:35 PM	R13247
Xylenes, Total	13	4.0	μg/L	2	9/9/2013 9:22:35 PM	R13247
Surr: 4-Bromofluorobenzene	110	85-136	%REC	2	9/9/2013 9:22:35 PM	R13247

Matrix: AQUEOUS

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

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Page 6 of 11 Sample pH greater than 2 for VOA and TOC only. P
- Reporting Detection Limit

## Lab Order 1309239

Date Reported: 9/12/2013

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Animas Environmental Services

Project:

Enterprise Lateral K-31

1309239-007

Lab ID:

Client Sample ID: MW-7

Collection Date: 9/4/2013 11:27:00 AM

Matrix: AQUEOUS Received Date: 9/6/2013 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	t: RAA
Benzene	6.2	2.0	μg/L	2	9/9/2013 9:52:46 PM	R13247
Toluene	ND	2.0	μg/L	2	9/9/2013 9:52:46 PM	R13247
Ethylbenzene	ND	2.0	μg/L	2	9/9/2013 9:52:46 PM	R13247
Xylenes, Total	ND	4.0	μg/L	2	9/9/2013 9:52:46 PM	R13247
Surr: 4-Bromofluorobenzene	107	85-136	%REC	2	9/9/2013 9:52:46 PM	R13247

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

- Value exceeds Maximum Contaminant Level.
- Ε Value above quantitation range
- Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
  - Page 7 of 11 Sample pH greater than 2 for VOA and TOC only. P
  - Reporting Detection Limit RL

Lab Order 1309239

Date Reported: 9/12/2013

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Animas Environmental Services

Client Sample ID: MW-8

Project: Enterprise Lateral K-31

Collection Date: 9/4/2013 1:52:00 PM

**Lab ID:** 1309239-008

Matrix: AQUEOUS

Received Date: 9/6/2013 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	t: RAA
Benzene	34	2.0	μg/L	2	9/9/2013 10:22:55 PM	R13247
Toluene	ND	2.0	μg/L	2	9/9/2013 10:22:55 PM	R13247
Ethylbenzene	ND	2.0	μg/L	2	9/9/2013 10:22:55 PM	R13247
Xylenes, Total	ND	4.0	μg/L	2	9/9/2013 10:22:55 PM	R13247
Surr: 4-Bromofluorobenzene	108	85-136	%REC	2	9/9/2013 10:22:55 PM	R13247

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

- * 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 Page 9
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Lab Order 1309239

Date Reported: 9/12/2013

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Animas Environmental Services

**Project:** Enterprise Lateral K-31

1309239-009

Lab ID:

Client Sample ID: MW-9

Collection Date: 9/4/2013 10:57:00 AM

Matrix: AQUEOUS Received Date: 9/6/2013 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	t: RAA
Benzene	ND	2.0	μg/L	2	9/9/2013 10:53:07 PM	R13247
Toluene	ND	2.0	μg/L	2	9/9/2013 10:53:07 PM	R13247
Ethylbenzene	ND	2.0	μg/L	2	9/9/2013 10:53:07 PM	R13247
Xylenes, Total	ND	4.0	µg/L	2	9/9/2013 10:53:07 PM	R13247
Surr: 4-Bromofluorobenzene	107	85-136	%REC	2	9/9/2013 10:53:07 PM	R13247

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

- Value exceeds Maximum Contaminant Level.
- Ε Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
  - Not Detected at the Reporting Limit

    Page 9 of 11

    Sample pH greater than 2 for VOA and TOC only. P
- RLReporting Detection Limit

Lab Order 1309239

Date Reported: 9/12/2013

## Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: Trip Blank **CLIENT:** Animas Environmental Services

Project: Enterprise Lateral K-31 **Collection Date:** 

1309239-010 Received Date: 9/6/2013 10:00:00 AM Lab ID: Matrix: TRIP BLANK

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES			•		Analys	st: RAA
Benzene	ND	1.0	μg/L	1	9/9/2013 11:23:23 PM	R13247
Toluene	ND	1.0	μg/L	1	9/9/2013 11:23:23 PM	R13247
Ethylbenzene	ND	1.0	μg/L	1	9/9/2013 11:23:23 PM	R13247
Xylenes, Total	ND	2.0	μg/L	1	9/9/2013 11:23:23 PM	R13247
Surr: 4-Bromofluorobenzene	109	85-136	%REC	1	9/9/2013 11:23:23 PM	R13247

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

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank В
- Holding times for preparation or analysis exceeded Η
- ND Not Detected at the Reporting Limit Page 10 of 11
- P Sample pH greater than 2 for VOA and TOC only.
- Reporting Detection Limit

## **QC SUMMARY REPORT**

## Hall Environmental Analysis Laboratory, Inc.

WO#:

1309239

12-Sep-13

Client:

**Animas Environmental Services** 

Project:

Enterprise Lateral K-31

				•			******			
Sample ID 100NG BTEX LO	CS Samp1	Type: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSW	Batc	h ID: <b>R1</b>	3247	F	RunNo: 1	3247				
Prep Date:	Analysis D	Date: 9/	9/2013	5	SeqNo: 3	76877	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	80	120			
Toluene	20	1.0	20.00	0	102	80	120			
Ethylbenzene	21	1.0	20.00	0	103	80	120			
Xylenes, Total	63	2.0	60.00	0	105	80	120			
Surr: 4-Bromofluorobenzene	22		20.00		112	85	136			
Sample ID 5ML RB	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBW	Batcl	n ID: R1	3247	F	tunNo: 1	3247				
Prep Date:	Analysis D	Date: 9/	9/2013	S	SeqNo: 3	76899	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								
7										

#### Qualifiers:

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

Page 11 of 11



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:	13092	39			RcptNo:	1
Received by/d	ate:	09/06/13						
Logged By:	۱ Lindsay Mangin	9/6/2013 10:00:00 AM			Julyt			
Completed By:	: Lindsay Mangin	9/6/2013 5:23 ₁ 06 PM			Amber 14			
Reviewed By:	de	2/ 20/20/20			00	0		
Chain of Cu	stody	1 Months						
1. Custody se	eals intact on sample bottles?		Yes		No		Not Present 🗹	
2. Is Chain of	f Custody complete?		Yes	✓	No		Not Present	
3. How was t	he sample delivered?		Cour	<u>er</u>				
<u>Log In</u>								
4. Was an at	tempt made to cool the sample	es?	Yes	$\checkmark$	No		na 🗆	
5. Were all s	amples received at a temperat	ure of >0° C to 6.0°C	Yes	<b>✓</b>	No [		NA 🗆	
6. Sample(s)	in proper container(s)?		Yes	✓	No			
7. Sufficient	sample volume for indicated te	st(s)?	Yes	V	No			
8. Are sample	es (except VOA and ONG) pro	perly preserved?	Yes	$\checkmark$	No			
9. Was prese	ervative added to bottles?		Yes		No	✓	NA $\square$	
10.VOA vials	have zero headspace?		Yes	<b>V</b>	No		No VOA Vials	
11. Were any	sample containers received br	oken?	Yes		No	<b>V</b>	# of processed	
				_		_	# of preserved bottles checked	
	erwork match bottle labels?		Yes	<b>V</b>	No	╙╽	for pH:(<2.0	r >12 unless noted)
	repancies on chain of custody) es correctly identified on Chair		Yes	<b>✓</b>	No		Adjusted?	1 - 12 unless noted)
	what analyses were requested			✓	No			
15. Were all he	olding times able to be met?		Yes		No		Checked by:	
(If no, notif	y customer for authorization.)					·		
Special Han	dling (if applicable)							
	notified of all discrepancies w	ith this order?	Yes		No		NA 🗹	
Pers	on Notified:	Date:			···			]
By W	/hom:	Via: [	eMa	ıil 🗌	Phone [	Fax	In Person	
Rega	arding:	15. 14. 1 - 10. 14. 14. 14. 14. 14. 14. 14. 14. 14. 14						
Clien	it Instructions:							
17. Additional	remarks:							
18. <u>Cooler In</u>	No Temp C Condition	Seal Intact   Seal No   S	Seal Da	ite	Signed B	у		
L	:1.2							

C.1.2.1.2	5	כוומווו-כו-כתפוכת) ויכככות					HALL ENVIRONMENTAL	
Animas	Environ	Animas Environmental Services	XStandard	□ Rush		87 % 15 % 18 %	ANALYSIS LABORATORY	
			Project Name:			<b>等</b>	www.hallenvironmental.com	
Mailing Address		624 E Comanche		Enterprise Lateral K-31	eral K-31	4901	4901 Hawkins NE - Albuquerque, NM 87109	
	Farming	Farmington , NM 87401	Project #:			Tel. £	Tel. 505-345-3975 Fax 505-345-4107	
Phone #:	505-327-1624	-1624	1	AES 111120			Analysis Request	
email or Fax#:	505-324-2022	-2022	Project Manager:	ler:				
QA/QC Package:			_	Heather Woods	8			
X Standard		☐ Level 4 (Full Validation)						
Accreditation: □ NELAP	□ Other		Sampler. U	amone, L	•			Or N)
□ EDD (Type)						×		) <u>(</u> )
Date Time	Matrix	Sample Request ID	Container 1 Type and #	Preservative Type		S021B BTE		Air Bubbles
7.4.2013 1426	HZO	MW-1	3 - 40mL glass	HCI	100-	×		
9-4-2013 1313	H20	MW-2	3 - 40mL glass	HCI	-002	×		
1-4-2013 1022	H20	MW-3	3 - 40mL glass	Ξ	-603	×		
7-4-2013 1206	HZO	MW-4	3 - 40mL glass	HCI	JUJ-	×		
9-4-2013 1237	H20	NW-5	3 - 40mL glass	HCI	- COST	×		
8.41 8102-1-6	H20	MW-6	3 - 40mL glass	모	) (2)	×		
9-4-2013 1127	H20	MW-7	3 - 40mL glass	HCI	T(W)-	×		
7.4-2013 135Z	H20	MW-8	3 - 40mL glass	Ę	-008	×		
9-4-203 1057	H20	WW-9	3 - 40mL glass	HCL	- POS	×		
9.42013		Trip Blank	2-40mL		_ OIO-	×		
					)			
Time:	Relinguished by	Tage Av.	Received by:		Date Time	Remarks:		
7/5/15 1643/		Jan	Chark	- Walte	2			
Time:	Relinquished by:		Received by:	-	Date Time			
01L1 E/15/	T. T.	the Dealth	2		10/12 1000			
Vicesees H	samulae sii)	d to Uall Emirroemootol r	The second of the second				and academical data will be aleast national on the constitution and	1

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