

Animas Environmental Services, LLC

September 23, 2014

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Jim Griswold New Mexico Oil Conservation Division 1220 S. St. Francis Drive Santa Fe, New Mexico 87505

Re: Periodic Progress Report 4th Quarter 2013 and 1st and 2nd Quarter 2014 Benson-Montin-Greer Highway 537 Truck Receiving Station 2009 Release Rio Arriba County, New Mexico

Dear Mr. Griswold:

On behalf of Benson-Montin-Greer Drilling Corporation (BMG), Animas Environmental Services, LLC (AES) has prepared this Periodic Progress Report, which provides details of site work for the 4th Quarter 2013 and the 1st and 2nd quarters 2014 at the BMG Highway 537 Truck Receiving Station 2009 release location. Sampling was conducted in January 2014 (4th Quarter 2013) and April 2014 (1st Quarter 2014), in accordance with recommendations presented in the Site Investigation Report prepared by AES and submitted on April 10, 2009.

1.0 Site Information

The BMG Highway 537 Truck Receiving Station consists of eight 500 barrel (bbl) oil storage tanks, one 600 bbl oil storage tank, one 80 bbl open top waste tank, and various pumps and meters associated with crude oil transport truck loading, unloading, and pipeline transport. Surface ownership in the area where the release occurred includes private land owned by the Schmitz Ranch.

1.1 Site Location

The truck receiving station is located along the south side of NM State Highway 537 and is adjacent to the Los Ojitos Arroyo, which eventually drains to Largo Canyon. The facility is described legally as being located within the SW¼ NW¼ Section 18, T25N, R3W in Rio Arriba County, New Mexico. Latitude and longitude were recorded as being N36.39866 and W107.19328, respectively. A topographic site location map, based on an excerpt from the U.S. Geological Survey (USGS) 7.5-minute Schmitz Ranch, Rio Arriba County, New Mexico topographic quadrangle (USGS 1963), is included as Figure 1. An aerial map with a site plan, including existing monitor wells, is presented as Figure 2.

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> Durango, Colorado 970-403-3084

1.2 Release History

On January 29, 2009, a Western Refining truck driver discovered crude condensate within the bermed area around the storage tanks, on the south side of Tank #1. BMG personnel arrived on-site and confirmed a leak at a buried 6-inch line between the storage tanks and the truck loading pump. BMG isolated the line and emptied it of residual oil. BMG then contacted Brandon Powell of New Mexico Oil Conservation Division (NMOCD) to provide notification and intended response to the release. Also on January 29, 2009, BMG contracted with TNT Excavating (TNT) to remove the buried 6-inch line in order to determine where the leak originated.

On January 30, 2009, TNT used a trackhoe to excavate an area (10 feet by 20 feet by 15 feet in depth) around the buried 6-inch line. AES collected soil samples from the base of the excavation for field screening with a photo-ionization detector (PID) organic vapor meter (OVM). Field screening results at 12 feet below ground surface (bgs) were 5,861 parts per million (ppm) volatile organic compounds (VOCs), and at 15 feet bgs VOCs were measured at 6,640 ppm. Additionally, AES collected one soil sample at 15 feet bgs for laboratory analysis of benzene, toluene, ethylbenzene, and xylene (BTEX) and total petroleum hydrocarbons (TPH). The analytical results of the soil sample collected on January 30, 2009, had total BTEX concentrations of 1,657 mg/kg and total TPH concentrations of 20,300 mg/kg.

The release was the result of a corrosion hole along the bottom of the pipe near the truck loading pumps. Because it was determined that the leak had impacted soils to at least 15 feet bgs, and due to the presence of tanks, buried pipe, buried conduit, and fixed pumps and meters within the release area, BMG and AES, in consultation with NMOCD, concluded that an assessment of the release area by installing soil borings and monitor wells would be the most appropriate assessment method.

On February 2, 2009, the 6-inch line was repaired, and the excavation was backfilled with clean fill material. Approximately 100 cubic yards of contaminated soil were transported to the TNT Landfarm for disposal. From February 16 through 20, 2009, site investigation activities were conducted by AES in order to delineate the full extent of petroleum hydrocarbon impact on surface and subsurface soils and groundwater resulting from the release. The investigation procedures included the installation of 11 monitor wells (MW-1 through MW-11) and collection of soil and groundwater samples. Work was completed in accordance with the *Sampling and Analysis Plan* prepared by AES and dated February 3, 2009, 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. Details of the site investigation are included in the AES *Site Investigation Report* submitted to NMOCD in April 2009.

2.0 Groundwater Monitoring and Sampling – January 2014

The fourth quarterly groundwater and sampling event of 2013 was conducted by AES personnel on January 2014. Groundwater samples from MW-1, MW-3, and MW-9 were laboratory analyzed for BTEX per USEPA Method 8021 and TPH per USEPA Method 8015 at Hall in Albuquerque, New Mexico, as well as field analyzed for temperature, conductivity, dissolved oxygen (DO), and ORP.

2.1 Groundwater Measurements and Water Quality Data

During the January 2014 sampling event, groundwater measurements were recorded for MW-1 through MW-11. Average groundwater elevations decreased across the site by approximately 0.5 feet since the September 2013 sampling event. Groundwater gradient was calculated between MW-9 and MW-10, with a magnitude of 0.007 ft/ft to the west-southwest. Depth to groundwater ranged from 15.17 feet below top of casing (TOC) in MW-6 to 30.39 feet below TOC in MW-11. Depth to groundwater measurements are presented in Table 1. Groundwater elevation contours are presented in Figure 3.

Groundwater quality measurements were recorded for MW-1, MW-3, and MW-9. Recorded temperatures ranged from 12.23°C in MW-3 to 12.78°C in MW-1. Groundwater DO concentrations were between 1.11 mg/L in MW-9 and 1.75 mg/L in MW-1. ORP measurements were between -59.9 mV in MW-3 and -54.8 mV in MW-9, and conductivity readings were between 4.764 mS/cm and 5.160 mS/cm. Water quality data are presented in Table 1. Water Sample Collection Forms are included in the Appendix.

2.2 Groundwater Analytical Results

Dissolved phase benzene concentrations slightly exceeded the WQCC standard in MW-1 with 14 µg/L. Dissolved phase toluene, ethylbenzene, and xylene concentrations were below applicable New Mexico (WQCC) standards in each of the wells sampled. TPH concentrations as GRO above laboratory detection limits were reported in MW-1 (0.21 mg/L) and MW-3 (0.12 mg/L), and TPH concentrations (as DRO and MRO) were reported below the laboratory detection limits in all wells sampled. Tabulated laboratory analytical results are included in Table 2. Contaminant concentrations are included in Figure 4, and Graphs 1 through 3 present groundwater elevations and dissolved phase benzene concentrations for MW-1, MW-3, and MW-9, respectively. Dissolved benzene contours are shown in Figure 5. Laboratory analytical reports for January 2014 are included in the Appendix.

3.0 Groundwater Monitoring and Sampling – April 2014

The 1st quarterly groundwater and sampling event of 2014 was conducted by AES personnel on April 4, 2014. Groundwater samples from MW-3, MW-4, MW-8, and MW-9 were laboratory analyzed for BTEX per USEPA Method 8021 and TPH per USEPA Method 8015 at Hall in Albuquerque, New Mexico, as well as field analyzed for temperature, conductivity, DO, and ORP.

3.1 Groundwater Measurements and Water Quality Data

During the April 2014 sampling event, groundwater measurements were recorded for MW-1 through MW-11. *Note that free product (or non-aqueous phase liquids "NAPL") was observed in MW-1, with a measured thickness of 1.18 ft.* Average groundwater elevations decreased across the site by approximately 0.1 feet since the January 2014 sampling event. Groundwater gradient was calculated between MW-9 and MW-10, with a magnitude of 0.007 ft/ft to the west-southwest. Depth to groundwater ranged from 15.20 feet below TOC in MW-6 to 31.02 feet below TOC in MW-1. Depth to groundwater measurements are presented in Table 1. Groundwater elevation data and contours are presented in Figure 6.

Groundwater quality measurements were recorded for MW-3, MW-4, MW-8, and MW-9. Recorded temperatures ranged from 12.10°C in MW-3 to 13.14°C in MW-8. Groundwater DO concentrations were between 1.70 mg/L in MW-8 and 2.86 mg/L in MW-4. ORP measurements were between -48.2 mV in MW-9 and 89.4 mV in MW-4, and conductivity readings were between 0.362 mS/cm in MW-3 and 0.435 mS/cm in MW-4. Water quality data are presented in Table 1. Water Sample Collection Forms are included in the Appendix.

3.2 Groundwater Analytical Results

Dissolved phase benzene, toluene, ethyl benzene, and xylene concentrations were below applicable New Mexico WQCC standards in each of the wells sampled. Note that MW-1 was not sampled because of the presence of free product. TPH concentrations as GRO above laboratory detection limits were reported in MW-3 (0.20 mg/L), MW-8 (0.072 mg/L), and MW-9 (0.075 mg/L). Additionally, TPH concentrations (as DRO and MRO) were reported below the laboratory detection limits in all wells sampled. Tabulated laboratory analytical results are included in Table 2. Contaminant concentrations are included in Figure 7. Laboratory analytical reports for April 2014 are included in the Appendix.

4.0 Site Assessment for Lease Closeout – May and June 2014

In May and June 2014, AES conducted a site assessment on behalf of BMG as part of termination of the property lease. The work included a release assessment and excavation of two discrete areas, along with associated field sampling and laboratory analyses. The site assessment and excavation activities are fully detailed in a separate report prepared by AES.

5.0 Remediation System Re-Installation – August 2014

On August 4, 2014, AES re-installed a Remediation Service International (RSI) mobile extraction and treatment system at the site to treat residual contaminants. The system is a trailer-mounted, single engine (Model V3), multi-phase high vacuum extraction system that utilizes a propane or natural gas-fired internal combustion engine for vacuum generation, and a compressive thermal oxidizer for vapor destruction of up to 35 lbs/hr at 50 standard cubic feet per minute (SCFM). The internal combustion engine system produces a vacuum up to 28 in-Hg and vapor/air extraction flow rates of up to 50 SCFM. Additionally, the remediation system is equipped with an RSI S.A.V.E. controller and data collection. RSI remediation system layout is shown in Figure 8.

The system was set up with the vacuum in MW-1 based on the presence of free product during the April 2014 sampling event. Note that on September 8, 2014, Biotech personnel reported no NAPL in MW-1 and a depth to water of 30.13 feet. The RSI unit was in operation until September 15, 2014. Hydrocarbons extracted during that time frame will be reported in the next periodic progress report (3rd Quarter 2014).

6.0 Conclusions and Recommendations

AES conducted groundwater monitoring and sampling at the BMG Highway 537 Truck Receiving Station on January 14, 2014, and April 4, 2014. During the April 2014 event, the presence of free product was observed for the first time in MW-1, with a measurable thickness of 1.18 ft. Groundwater elevations were found to have decreased in all wells by approximately 0.54 feet between January 2014 and September 2013 (3rd quarter) and decreased an additional 0.09 feet by April 2014. Groundwater gradient for January and April 2014 was calculated to be approximately 0.007 ft/ft in a west-southwestern direction, which is consistent with historic site data.

In January 2014, groundwater samples were collected from monitor wells MW-1, MW-3, and MW-9. Monitor wells MW-2, MW-4 through MW-8, MW-10, and MW-11 have remained

below the WQCC standards for BTEX and TPH for eight or more consecutive sampling events and therefore were not sampled in January 2014. For the April 2014, groundwater samples were collected from MW-3, MW-4, MW-8, and MW-9. MW-1 was not sampled due to the presence of NAPL.

Dissolved phase benzene concentrations above the WQCC standard of 10 μ g/L were reported in MW-1 (14 μ g/L) in January 2014. In April 2014, dissolved phase benzene, toluene, ethyl benzene, and xylenes remained below the applicable WQCC standards in each of the wells tested. GRO concentrations above the laboratory detection limit were reported in MW-1 and MW-3 in January 2014 and MW-3, MW-8, and MW-9 in April 2014. DRO and MRO concentrations were reported below the laboratory detection limits in all sampled wells during the January 2014 and April 2014 sampling events.

Based on laboratory analytical results and actively running remediation systems, AES recommends continuing groundwater monitoring and sampling of monitor wells MW-1, MW-3, and MW-9 on a semi-annual basis during active remediation.

AES recommends running the RSI unit on bi-weekly basis until December 2014 and then shutting down until March 2015 for the winter season. The RSI unit remediation will resume May 2015, contingent upon field and laboratory analytical results from 1st quarter 2015 sampling.

7.0 Scheduled Site Activities

The following site activities have been tentatively scheduled:

- 3rd quarter sampling and monitoring September 2014;
- RSI unit operational on bi-weekly schedule through early December 2014;
- Monthly monitoring well gauging;
- Suspend RSI operations from December 2014 through March 2015;
- 1st quarter sampling March 2015; and
- Resume RSI operations if needed in spring 2015 based on 1st quarter sampling.

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

Sincerely,

Davil g Reve

David J. Reese Environmental Scientist

Brent went

Brent Everett Sr. Hydrogeologist/Project Manager

Elizabeth V Mindly

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Appendix Water Sample Collection Forms 011414 Water Sample Collection Forms 040414 Hall Analytical Report 1401707 Hall Analytical Report 1404312 Hall Analytical Report 1404313

Cc:

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SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA

BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE

Well ID	Date Sampled	Depth to Water (ft)	Surveyed TOC (ft)	GW Elev. (ft)	Temperature (C)	Conductivity (mS)	DO (mg/L)	рН	ORP (mV)
MW-1	05-Mar-09	27.95	7064.66	7036.71	12.29	5.231	1.27	6.64	-36.1
MW-1	11-Sep-09	28.66	7064.66	7036.00	13.15	7.016	0.65	8.60	-118.5
MW-1	15-Jan-10	28.91	7064.66	7035.75	13.30	3.714	2.74	6.79	-167.8
MW-1	15-Oct-10	29.20	7064.66	7035.46	13.77	4.642	1.51	7.14	-17.9
MW-1	21-Jan-11	29.28	7064.66	7035.38	12.42	4.246	1.63	6.92	-85.8
MW-1	12-May-11	28.93	7064.66	7035.73	13.08	3.830	2.95	7.00	-96.1
MW-1	12-Aug-11	29.67	7064.66	7034.99	14.03	4.637	3.83	6.94	-107.9
MW-1	16-Nov-11	29.82	7064.66	7034.84	11.57	4.385	2.89	5.35	-69.7
MW-1	21-Feb-12	29.77	7064.66	7034.89	12.01	4.063	1.09	6.78	-123.9
MW-1	24-May-12	29.77	7064.66	7034.89	12.94	4.563	1.04	6.95	-46.5
MW-1	10-Sep-12	30.14	7064.66	7034.52	14.63	4.705	1.16	7.12	-15.7
MW-1	04-Dec-12	30.33	7064.66	7034.33	12.55	4.430	1.30	7.11	-7.1
MW-1	26-Mar-13	29.87	7064.66	7034.79	12.20	4.556	1.66	6.72	-5.9
MW-1	01-Jul-13	30.41	7064.66	7034.25	13.52	4.372	3.61	7.18	9.2
MW-1	25-Sep-13	29.51	7064.66	7035.15	12.62	8.264	1.64	7.21	-48.6
MW-1	14-Jan-14	30.10	7064.66	7034.56	12.78	4.905	1.75	NM	-59.5
MW-1	04-Apr-14	31.02	7064.66	7033.64	NM	NM	NM	NM	NM
MW-2	05-Mar-09	27.69	7064.65	7036.96	12.00	4.567	2.59	6.82	-29.8
MW-2	10-Sep-09	28.38	7064.65	7036.27	12.93	6.480	1.09	7.58	62.2
MW-2	15-Jan-10	28.62	7064.65	7036.03	12.49	3.604	2.10	7.57	-70.3
MW-2	14-Oct-10	28.91	7064.65	7035.74	12.49	3.968	1.71	7.40	98.9
MW-2	21-Jan-11	28.99	7064.65	7035.66	11.44	4.045	1.62	8.56	-6.2
MW-2	12-May-11	28.63	7064.65	7036.02	13.14	4.087	1.43	7.67	-66.7
MW-2	12-Aug-11	29.37	7064.65	7035.28	14.08	4.102	4.36	7.09	160.2
MW-2	16-Nov-11	29.52	7064.65	7035.13	11.60	4.021	2.48	7.51	176.2
MW-2	21-Feb-12	29.46	7064.65	7035.19	NM	NM	NM	NM	NM

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Well ID	Date Sampled	Depth to Water (ft)	Surveyed TOC (ft)	GW Elev. (ft)	Temperature (C)	Conductivity (mS)	DO (mg/L)	рН	ORP (mV)
MW-2	24-May-12	29.47	7064.65	7035.18	NM	NM	NM	NM	NM
MW-2	10-Sep-12	29.84	7064.65	7034.81	NM	NM	NM	NM	NM
MW-2	04-Dec-12	30.03	7064.65	7034.62	NM	NM	NM	NM	NM
MW-2	26-Mar-13	29.60	7064.65	7035.05	NM	NM	NM	NM	NM
MW-2	27-Jun-13	30.11	7064.65	7034.54	NM	NM	NM	NM	NM
MW-2	25-Sep-13	29.28	7064.65	7035.37	NM	NM	NM	NM	NM
MW-2	14-Jan-14	29.81	7064.65	7034.84	NM	NM	NM	NM	NM
MW-2	04-Apr-14	29.84	7064.65	7034.81	NM	NM	NM	NM	NM
MW-3	05-Mar-09	27.16	7064.01	7036.85	12.29	4.310	2.17	6.66	-28.2
MW-3	11-Sep-09	27.99	7064.01	7036.02	13.50	6.080	0.53	9.43	-163.6
MW-3	15-Jan-10	28.22	7064.01	7035.79	11.99	3.607	1.85	7.27	-222.5
MW-3	14-Oct-10	28.54	7064.01	7035.47	12.41	4.180	1.46	7.24	-53.1
MW-3	21-Jan-11	28.60	7064.01	7035.41	11.92	4.224	1.60	7.20	-122.5
MW-3	12-May-11	28.21	7064.01	7035.80	12.56	4.172	2.25	7.28	-145.8
MW-3	12-Aug-11	29.02	7064.01	7034.99	13.32	4.372	2.35	7.17	-158.5
MW-3	16-Nov-11	29.14	7064.01	7034.87	10.87	4.326	2.17	6.53	-105.7
MW-3	21-Feb-12	29.07	7064.01	7034.94	11.36	4.481	1.01	7.09	-118.0
MW-3	24-May-12	29.09	7064.01	7034.92	13.30	4.325	0.81	7.07	-70.3
MW-3	10-Sep-12	29.45	7064.01	7034.56	13.26	4.377	2.49	7.23	-42.7
MW-3	04-Dec-12	29.65	7064.01	7034.36	12.08	4.294	0.69	7.26	-46.8
MW-3	26-Mar-13	29.12	7064.01	7034.89	11.93	2.337	5.85	7.46	59.3
MW-3	01-Jul-13	29.74	7064.01	7034.27	14.64	4.119	11.22	7.69	-36.8
MW-3	25-Sep-13	28.65	7064.01	7035.36	12.50	7.764	2.08	7.22	-79.5
MW-3	14-Jan-14	29.38	7064.01	7034.63	12.23	4.764	1.74	NM	-59.9
MW-3	04-Apr-14	29.39	7064.01	7034.62	12.10	0.362	1.74	6.90	-45.1

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Well ID	Date Sampled	Depth to Water (ft)	Surveyed TOC (ft)	GW Elev. (ft)	Temperature (C)	Conductivity (mS)	DO (mg/L)	рН	ORP (mV)
MW-4	05-Mar-09	27.39	7063.72	7036.33	12.36	4.760	1.72	6.58	-29.2
MW-4	06-Apr-09	27.58	7063.72	7036.14	11.87	4.599	2.06	6.75	18.0
MW-4	10-Sep-09	28.12	7063.72	7035.60	13.09	6.337	0.81	6.98	54.6
MW-4	15-Jan-10	28.34	7063.72	7035.38	11.65	3.812	2.78	7.20	-125.1
MW-4	15-Oct-10	28.64	7063.72	7035.08	12.52	4.491	1.42	7.13	42.8
MW-4	21-Jan-11	28.72	7063.72	7035.00	11.90	4.748	1.14	7.19	5.4
MW-4	12-May-11	28.39	7063.72	7035.33	13.11	4.576	2.58	7.29	-25.8
MW-4	12-Aug-11	29.10	7063.72	7034.62	13.89	4.759	3.98	6.85	74.9
MW-4	16-Nov-11	29.26	7063.72	7034.46	11.66	4.725	2.15	7.11	153.0
MW-4	21-Feb-12	29.22	7063.72	7034.50	10.27	4.927	1.02	7.02	-11.3
MW-4	24-May-12	29.23	7063.72	7034.49	13.75	4.687	1.04	6.98	39.3
MW-4	10-Sep-12	29.58	7063.72	7034.14	NM	NM	NM	NM	NM
MW-4	04-Dec-12	29.77	7063.72	7033.95	NM	NM	NM	NM	NM
MW-4	26-Mar-13	29.33	7063.72	7034.39	NM	NM	NM	NM	NM
MW-4	27-Jun-13	29.85	7063.72	7033.87	NM	NM	NM	NM	NM
MW-4	25-Sep-13	28.96	7063.72	7034.76	NM	NM	NM	NM	NM
MW-4	14-Jan-14	29.54	7063.72	7034.18	NM	NM	NM	NM	NM
MW-4	04-Apr-14	29.54	7063.72	7034.18	12.16	0.435	2.86	6.90	89.4
MW-5	05-Mar-09	28.24	7064.79	7036.55	11.80	6.088	3.89	6.61	-17.3
MW-5	10-Sep-09	28.87	7064.79	7035.92	12.78	7.785	1.22	7.09	60.5
MW-5	15-Jan-10	29.10	7064.79	7035.69	11.19	4.288	1.93	7.27	-85.8
MW-5	14-Oct-10	29.38	7064.79	7035.41	12.34	4.725	1.24	7.23	98.1
MW-5	21-Jan-11	29.47	7064.79	7035.32	11.93	5.038	2.71	7.31	103.9
MW-5	12-May-11	29.17	7064.79	7035.62	12.40	4.957	2.44	7.42	-44.4
MW-5	12-Aug-11	29.84	7064.79	7034.95	13.73	4.968	3.87	6.83	189.8
MW-5	16-Nov-11	30.00	7064.79	7034.79	11.16	4.814	4.47	7.18	290.4

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Well ID	Date Sampled	Depth to Water (ft)	Surveyed TOC (ft)	GW Elev. (ft)	Temperature (C)	Conductivity (mS)	DO (mg/L)	рН	ORP (mV)
MW-5	21-Feb-12	29.96	7064.79	7034.83	NM	NM	NM	NM	NM
MW-5	25-May-12	29.96	7064.79	7034.83	NM	NM	NM	NM	NM
MW-5	10-Sep-12	30.31	7064.79	7034.48	NM	NM	NM	NM	NM
MW-5	04-Dec-12	30.52	7064.79	7034.27	NM	NM	NM	NM	NM
MW-5	26-Mar-13	30.14	7064.79	7034.65	NM	NM	NM	NM	NM
MW-5	27-Jun-13	30.60	7064.79	7034.19	NM	NM	NM	NM	NM
MW-5	25-Sep-13	29.87	7064.79	7034.92	NM	NM	NM	NM	NM
MW-5	14-Jan-14	30.31	7064.79	7034.48	NM	NM	NM	NM	NM
MW-5	04-Apr-14	30.30	7064.79	7034.49	NM	NM	NM	NM	NM
MW-6	05-Mar-09	12.67	7049.54	7036.87	9.21	4.967	4.30	6.53	4.6
MW-6	10-Sep-09	13.90	7049.54	7035.64	11.85	6.287	1.15	7.12	75.9
MW-6	15-Jan-10	14.02	7049.54	7035.52	10.81	3.789	2.46	7.35	-66.7
MW-6	15-Oct-10	14.39	7049.54	7035.15	12.45	4.353	1.40	7.24	20.7
MW-6	21-Jan-11	14.42	7049.54	7035.12	11.59	4.516	3.10	7.32	-37.3
MW-6	12-May-11	14.00	7049.54	7035.54	10.69	4.349	1.89	7.47	-24.9
MW-6	12-Aug-11	14.93	7049.54	7034.61	11.99	4.492	4.24	7.56	0.2
MW-6	16-Nov-11	14.99	7049.54	7034.55	12.01	4.398	2.74	6.46	182.1
MW-6	21-Feb-12	14.90	7049.54	7034.64	NM	NM	NM	NM	NM
MW-6	25-May-12	14.92	7049.54	7034.62	NM	NM	NM	NM	NM
MW-6	10-Sep-12	NM	7049.54	NM		NM - 1	Well is Dry		
MW-6	04-Dec-12	15.48	7049.54	7034.06	NM	NM	NM	NM	NM
MW-6	26-Mar-13	14.79	7049.54	7034.75	NM	NM	NM	NM	NM
MW-6	27-Jun-13	15.60	7049.54	7033.94	NM	NM	NM	NM	NM
MW-6	25-Sep-13	14.92	7049.54	7034.62	NM	NM	NM	NM	NM
MW-6	14-Jan-14	15.17	7049.54	7034.37	NM	NM	NM	NM	NM
MW-6	04-Apr-14	15.20	7049.54	7034.34	NM	NM	NM	NM	NM

SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA

BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE

Well ID	Date Sampled	Depth to Water (ft)	Surveyed TOC (ft)	GW Elev. (ft)	Temperature (C)	Conductivity (mS)	DO (mg/L)	рН	ORP (mV)
MW-7	06-Mar-09	26.34	7062.80	7036.46	11.40	4.951	2.17	6.50	-3.3
MW-7	10-Sep-09	27.23	7062.80	7035.57	12.61	6.288	1.03	7.05	51.0
MW-7	15-Jan-10	27.44	7062.80	7035.36	11.02	3.820	2.92	7.27	-66.3
MW-7	14-Oct-10	27.76	7062.80	7035.04	12.79	4.047	1.24	7.19	68.6
MW-7	21-Jan-11	27.82	7062.80	7034.98	10.79	4.205	2.22	7.37	42.0
MW-7	12-May-11	27.46	7062.80	7035.34	12.80	4.118	1.73	7.38	-70.4
MW-7	12-Aug-11	28.24	7062.80	7034.56	13.88	4.119	2.90	7.30	112.8
MW-7	16-Nov-11	28.38	7062.80	7034.42	11.24	4.077	2.75	6.32	168.0
MW-7	21-Feb-12	28.31	7062.80	7034.49	NM	NM	NM	NM	NM
MW-7	24-May-12	28.34	7062.80	7034.46	NM	NM	NM	NM	NM
MW-7	10-Sep-12	28.69	7062.80	7034.11	NM	NM	NM	NM	NM
MW-7	04-Dec-12	28.86	7062.80	7033.94	NM	NM	NM	NM	NM
MW-7	26-Mar-13	28.33	7062.80	7034.47	NM	NM	NM	NM	NM
MW-7	27-Jun-13	28.97	7062.80	7033.83	NM	NM	NM	NM	NM
MW-7	25-Sep-13	27.78	7062.80	7035.02	NM	NM	NM	NM	NM
MW-7	14-Jan-14	28.61	7062.80	7034.19	NM	NM	NM	NM	NM
MW-7	04-Apr-14	28.62	7062.80	7034.18	NM	NM	NM	NM	NM
MW-8	06-Mar-09	27.49	7063.27	7035.78	11.91	4.731	2.14	6.40	-4.4
MW-8	10-Sep-09	28.14	7063.27	7035.13	13.53	5.987	1.12	8.51	-93.2
MW-8	15-Jan-10	28.39	7063.27	7034.88	11.43	2.891	1.86	6.68	-162.2
MW-8	15-Oct-10	28.70	7063.27	7034.57	12.80	4.017	1.21	7.04	-39.1
MW-8	21-Jan-11	28.80	7063.27	7034.47	12.30	4.002	1.55	7.08	-91.2
MW-8	12-May-11	28.52	7063.27	7034.75	13.16	3.966	1.60	7.16	-121.2
MW-8	12-Aug-11	29.19	7063.27	7034.08	13.85	4.194	3.45	6.97	-148.3
MW-8	16-Nov-11	29.35	7063.27	7033.92	11.49	4.218	2.57	6.49	-115.4

SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA

BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE

Well ID	Date Sampled	Depth to Water (ft)	Surveyed TOC (ft)	GW Elev. (ft)	Temperature (C)	Conductivity (mS)	DO (mg/L)	рН	ORP (mV)
MW-8	21-Feb-12	29.31	7063.27	7033.96	12.21	4.500	0.88	6.96	-116.0
MW-8	24-May-12	29.34	7063.27	7033.93	13.43	4.402	0.65	6.93	-41.2
MW-8	10-Sep-12	29.68	7063.27	7033.59	12.98	4.499	1.34	7.12	-27.3
MW-8	04-Dec-12	29.87	7063.27	7033.40	12.53	3.045	3.78	7.13	-3.1
MW-8	26-Mar-13	29.47	7063.27	7033.80	12.65	4.449	4.10	6.95	22.0
MW-8	27-Jun-13	29.97	7063.27	7033.30	14.39	6.908	8.14	7.01	-43.6
MW-8	25-Sep-13	29.14	7063.27	7034.13	NM	NM	NM	NM	NM
MW-8	14-Jan-14	29.65	7063.27	7033.62	NM	NM	NM	NM	NM
MW-8	04-Apr-14	29.64	7063.27	7033.63	13.14	0.424	1.70	6.80	-14.9
MW-9	06-Mar-09	27.60	7062.60	7035.00	9.47	5.418	5.12	6.39	-1.8
MW-9	06-Apr-09	27.74	7062.60	7034.86	11.86	5.174	2.24	6.72	25.2
MW-9	10-Sep-09	28.19	7062.60	7034.41	13.10	7.257	0.86	7.03	-129.8
MW-9	15-Jan-10	28.42	7062.60	7034.18	10.89	3.960	2.29	7.13	-187.4
MW-9	15-Oct-10	28.74	7062.60	7033.86	12.85	4.561	1.89	7.17	-74.4
MW-9	21-Jan-11	28.85	7062.60	7033.75	12.67	4.452	1.34	7.16	-90.8
MW-9	12-May-11	28.61	7062.60	7033.99	13.12	4.120	2.31	7.28	-94.1
MW-9	12-Aug-11	29.22	7062.60	7033.38	12.92	4.492	5.42	7.33	-132.7
MW-9	16-Nov-11	29.41	7062.60	7033.19	11.80	4.402	2.67	5.56	-75.1
MW-9	21-Feb-12	29.39	7062.60	7033.21	11.89	4.241	1.37	6.95	-127.0
MW-9	24-May-12	29.39	7062.60	7033.21	13.68	4.470	0.80	7.08	-56.4
MW-9	10-Sep-12	29.73	7062.60	7032.87	13.41	4.439	1.41	7.13	-52.2
MW-9	04-Dec-12	29.90	7062.60	7032.70	12.87	4.374	1.34	7.19	-60.5
MW-9	26-Mar-13	29.56	7062.60	7033.04	12.57	4.396	1.24	6.72	-15.8
MW-9	27-Jun-13	30.00	7062.60	7032.60	20.04	6.761	2.38	7.10	-48.5
MW-9	25-Sep-13	29.28	7062.60	7033.32	13.08	8.437	2.44	7.19	-84.6
MW-9	14-Jan-14	29.68	7062.60	7032.92	12.61	5.160	1.11	NM	-54.8

SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA

BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE

Well ID	Date Sampled	Depth to Water (ft)	Surveyed TOC (ft)	GW Elev. (ft)	Temperature (C)	Conductivity (mS)	DO (mg/L)	рН	ORP (mV)
MW-9	04-Apr-14	29.69	7062.60	7032.91	12.89	0.407	2.81	6.89	-48.2
MW-10	09-Mar-09	26.25	7063.27	7037.02	10.51	4.572	3.44	6.62	15.6
MW-10	10-Sep-09	27.10	7063.27	7036.17	12.62	5.133	1.83	6.97	80.7
MW-10	15-Jan-10	27.29	7063.27	7035.98	10.82	3.210	2.47	7.10	-99.3
MW-10	14-Oct-10	27.61	7063.27	7035.66	11.98	3.811	1.80	7.22	119.2
MW-10	21-Jan-11	27.66	7063.27	7035.61	10.73	3.946	1.78	7.45	90.1
MW-10	12-May-11	27.28	7063.27	7035.99	12.26	3.839	1.34	7.26	84.9
MW-10	12-Aug-11	28.08	7063.27	7035.19	12.84	3.948	4.99	6.62	175.8
MW-10	16-Nov-11	28.20	7063.27	7035.07	10.81	3.912	2.81	6.17	190.7
MW-10	21-Feb-12	28.13	7063.27	7035.14	NM	NM	NM	NM	NM
MW-10	24-May-12	28.15	7063.27	7035.12	NM	NM	NM	NM	NM
MW-10	10-Sep-12	28.54	7063.27	7034.73	NM	NM	NM	NM	NM
MW-10	04-Dec-12	28.72	7063.27	7034.55	NM	NM	NM	NM	NM
MW-10	26-Mar-13	28.20	7063.27	7035.07	NM	NM	NM	NM	NM
MW-10	27-Jun-13	28.79	7063.27	7034.48	NM	NM	NM	NM	NM
MW-10	25-Sep-13	27.80	7063.27	7035.47	NM	NM	NM	NM	NM
MW-10	14-Jan-14	28.44	7063.27	7034.83	NM	NM	NM	NM	NM
MW-10	04-Apr-14	28.46	7063.27	7034.81	NM	NM	NM	NM	NM
MW-11	09-Mar-09	28.33	7064.10	7035.77	11.47	5.730	3.52	6.63	17.1
MW-11	10-Sep-09	28.88	7064.10	7035.22	13.32	7.785	0.67	7.02	61.2
MW-11	15-Jan-10	29.13	7064.10	7034.97	10.20	3.995	1.86	7.16	-59.2
MW-11	14-Oct-10	29.44	7064.10	7034.66	13.00	4.901	1.93	7.20	94.5
MW-11	21-Jan-11	29.53	7064.10	7034.57	11.55	4.937	1.75	7.37	216.0
MW-11	12-May-11	29.25	7064.10	7034.85	12.97	4.701	2.71	7.41	-16.0
MW-11	12-Aug-11	29.89	7064.10	7034.21	12.89	4.872	3.24	7.39	122.2

SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA

BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE

Rio Arriba County, New Mexico

Well ID	Date Sampled	Depth to Water (ft)	Surveyed TOC (ft)	GW Elev. (ft)	Temperature (C)	Conductivity (mS)	DO (mg/L)	рН	ORP (mV)
MW-11	16-Nov-11	30.07	7064.10	7034.03	11.49	4.762	3.61	7.00	307.9
MW-11	21-Feb-12	30.04	7064.10	7034.06	NM	NM	NM	NM	NM
MW-11	24-May-12	30.06	7064.10	7034.04	NM	NM	NM	NM	NM
MW-11	10-Sep-12	30.38	7064.10	7033.72	NM	NM	NM	NM	NM
MW-11	04-Dec-12	30.58	7064.10	7033.52	NM	NM	NM	NM	NM
MW-11	26-Mar-13	30.23	7064.10	7033.87	NM	NM	NM	NM	NM
MW-11	27-Jun-13	30.66	7064.10	7033.44	NM	NM	NM	NM	NM
MW-11	25-Sep-13	30.00	7064.10	7034.10	NM	NM	NM	NM	NM
MW-11	14-Jan-14	30.39	7064.10	7033.71	NM	NM	NM	NM	NM
MW-11	04-Apr-14	30.36	7064.10	7033.74	NM	NM	NM	NM	NM
Downgradient									
MW-7*	09-Mar-09	13.09	7051.30	7038.21	8.14	3.441	4.52	6.49	12.8

NOTE: NM = NOT MEASURED

NA = NOT AVAILABLE

* = Monitoring Well from HWY 537 '06-'07 spill

Average GW Elev.:

7033.88

TABLE 2 SUMMARY OF GROUNDWATER ANALYTICAL RESULTS BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE

	Date	1.107	Arriba County		Total			
Well ID	Sampled	Pontono	Toluene	Ethyl-		GRO	DRO	MRO
weirib	Sampled	Benzene		benzene	Xylenes			
Anglutical	Mathad	(μg/L)	(μg/L) 8021B	(μg/L)	(μg/L) 8021 Β	(<i>mg/L</i>)	(<i>mg/L</i>)	(<i>mg/L</i>)
Analytical		8021B		8021B	8021B	8015B	8015B	8015B
New Mexic		10	750	750	620	NE	NE	NE
MW-1	05-Mar-09	310	91	5.1	200	2.1	<1.0	<5.0
MW-1	11-Sep-09	1,500	<u> </u>	48	170	4.8	<1.0	<5.0
MW-1	11-3ep-09 15-Jan-10	630	<5.0	19	47	2.1	<1.0	<5.0
MW-1	15-0ct-10	960	53	37	94	4.1	<1.0	<5.0
MW-1	21-Jan-11	3,600	<10	140	160	10	<1.0	<5.0
MW-1	12-May-11	7,800	42	270	33	10	<1.0	<5.0
MW-1	12-Aug-11	280	<1.0	18	<2.0	1.2	<1.0	<5.0
MW-1	16-Nov-11	2,700	<5.0	76	<10	3.9	<1.0	<5.0
MW-1	21-Feb-12	360	<1.0	54	<2.0	1.2	<1.0	<5.0
MW-1	24-May-12	210	2.1	31	5.1	0.59	<1.0	<5.0
MW-1	, 10-Sep-12	54	<2.0	36	<4.0	0.45	<1.0	<5.0
MW-1	04-Dec-12	<2.0	<2.0	17	<4.0	0.19	<1.0	<5.0
MW-1	26-Mar-13	1.2	<1.0	1.8	<2.0	<0.050	<1.0	<5.0
MW-1	01-Jul-13	1.6	<1.0	6.5	<2.0	0.090	<1.0	<5.0
MW-1	25-Sep-13	180	2.9	36	8.8	0.53	<1.0	<5.0
MW-1	14-Jan-14	14	<2.0	15	<4.0	0.21	<1.0	<5.0
MW-2	05-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-2	10-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-2	15-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-2	14-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-2	21-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-2	12-May-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-2	12-Aug-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-2	16-Nov-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-3	05-Mar-09	400	1,100	110	1,300	8.2	3.4	<5.0
MW-3	11-Sep-09	380	27	26	61	4.2	9.6	6.0
MW-3	15-Jan-10	750	11	34	<20	3.4	7.0	6.1
MW-3	14-Oct-10	140	<1.0	6.8	2.8	0.76	1.9	<5.0
MW-3	21-Jan-11	280	<1.0	24	9.1	1.7	3.5	<5.0
MW-3	12-May-11	980	<1.0	42	<2.0	3.0	4.8	<5.0
MW-3	12-Aug-11	51	<1.0	4.2	<2.0	0.38	<1.0	<5.0
MW-3	16-Nov-11	63	<1.0	6.0	<2.0	0.46	3.3	<5.0
MW-3	21-Feb-12	4.8	<1.0	<1.0	<2.0	0.18	<1.0	<5.0
MW-3	24-May-12	50	<1.0	3.0	<2.0	0.33	<1.0	<5.0

TABLE 2 SUMMARY OF GROUNDWATER ANALYTICAL RESULTS BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE

	Date		-	Ethyl-	Total			
Well ID	Sampled	Benzene	Toluene	benzene	Xylenes	GRO	DRO	MRO
		(μg/L)	(μg/L)	(μg/L)	(μg/L)	(mg/L)	(mg/L)	(mg/L)
Analytical	Method	8021B	8021B	8021B	8021B	8015B	8015B	8015B
New Mexic		10	750	750	620	NE	NE	NE
MW-3	10-Sep-12	6.2	<2.0	<2.0	<4.0	0.29	<1.0	<5.0
MW-3	04-Dec-12	<2.0	<2.0	<2.0	<4.0	0.26	<1.0	<5.0
MW-3	26-Mar-13	2.5	<1.0	<1.0	<2.0	0.23	<1.0	<5.0
MW-3	01-Jul-13	<1.0	<1.0	<1.0	<2.0	0.11	<1.0	<5.0
MW-3	25-Sep-13	30	<1.0	1.5	3.2	0.23	<1.0	<5.0
MW-3	14-Jan-14	<1.0	<1.0	<1.0	<2.0	0.12	<1.0	<5.0
MW-3	04-Apr-14	<1.0	<1.0	<1.0	<2.0	0.20	<1.0	<5.0
MW-4	05-Mar-09	2.7	1.4	<1.0	<2.0	<0.050	<1.0	<5.0
MW-4	06-Apr-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-4	10-Sep-09	13	<1.0	<1.0	<2.0	0.051	<1.0	<5.0
MW-4	15-Jan-10	8.6	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-4	15-Oct-10	6.3	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-4	21-Jan-11	3.6	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-4	12-May-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-4	12-Aug-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-4	16-Nov-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-4	21-Feb-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-4	24-May-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-4	04-Apr-14	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-5	05-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-5	10-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-5	15-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-5	14-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-5	21-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-5	12-May-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-5	12-Aug-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-5	16-Nov-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
	ļ							
MW-6	06-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-6	10-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-6	15-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-6	15-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-6	21-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-6	12-May-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-6	12-Aug-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE

	Date	-		Ethyl-	Total			
Well ID	Sampled	Benzene	Toluene	benzene	Xylenes	GRO	DRO	MRO
Weilib	Sampled	μg/L)	(μg/L)	μg/L)	μg/L)	(mg/L)	(mg/L)	(mg/L)
Analytical	Method	8021B	8021B	8021B	8021B	8015B	8015B	8015B
New Mexic		10	750	750	620	NE	NE	NE
MW-6	16-Nov-11	<1.0	<1.0	<1.0	<2.0	< 0.050	<1.0	<5.0
	10 100 11	1.0	<1.0	<1.0	~2.0	<0.050	×1.0	N
MW-7	06-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-7	10-Sep-09	<1.0	<1.0	<1.0	<2.0	< 0.050	<1.0	<5.0
MW-7	15-Jan-10	<1.0	<1.0	<1.0	<2.0	< 0.050	<1.0	<5.0
MW-7	14-Oct-10	<1.0	<1.0	<1.0	<2.0	< 0.050	<1.0	<5.0
MW-7	21-Jan-11	<1.0	<1.0	<1.0	<2.0	< 0.050	<1.0	<5.0
MW-7	12-May-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-7	, 12-Aug-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-7	16-Nov-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-8	06-Mar-09	160	170	12	350	2.1	1.5	<5.0
MW-8	11-Sep-09	1,200	<20	36	75	4.1	1.1	<5.0
MW-8	15-Jan-10	56	<1.0	2.3	2.2	0.24	<1.0	<5.0
MW-8	15-Oct-10	50	<1.0	1.7	<2.0	0.21	<1.0	<5.0
MW-8	21-Jan-11	370	<1.0	4.6	<2.0	0.58	<1.0	<5.0
MW-8	12-May-11	430	<1.0	25	<2.0	1.4	<1.0	<5.0
MW-8	12-Aug-11	2.3	<1.0	<1.0	<2.0	0.070	<1.0	<5.0
MW-8	16-Nov-11	1.5	<1.0	<1.0	<2.0	0.17	<1.0	<5.0
MW-8	21-Feb-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-8	24-May-12	<1.0	<1.0	<1.0	<2.0	0.12	<1.0	<5.0
MW-8	10-Sep-12	<1.0	<1.0	<1.0	<2.0	0.16	<1.0	<5.0
MW-8	04-Dec-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-8	26-Mar-13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-8	27-Jun-13	<1.0	<1.0	<1.0	<2.0	0.052	<1.0	<5.0
MW-8	04-Apr-14	<1.0	<1.0	<1.0	<2.0	0.072	<1.0	<5.0
MW-9	06-Mar-09	170	350	49	530	2.5	<1.0	<5.0
MW-9	06-Apr-09	82	62	16	210	1.6	<1.0	<5.0
MW-9	10-Sep-09	46	<1.0	3.8	19	0.86	<1.0	<5.0
MW-9	15-Jan-10	62	<1.0	4.2	12	0.49	<1.0	<5.0
MW-9	15-Oct-10	53	<1.0	2.3	<2.0	0.22	<1.0	<5.0
MW-9	21-Jan-11	390	<1.0	5.1	<2.0	0.41	<1.0	<5.0
MW-9	12-May-11	390	<1.0	11	<2.0	0.92	<1.0	<5.0
MW-9	12-Aug-11	120	<1.0	5.6	<2.0	0.35	<1.0	<5.0
MW-9	16-Nov-11	200	<5.0	9.6	<10	0.57	<1.0	<5.0
MW-9	21-Feb-12	120	<1.0	4.2	<2.0	0.30	<1.0	<5.0

TABLE 2 SUMMARY OF GROUNDWATER ANALYTICAL RESULTS BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE

	Date			Ethyl-	Total			
Well ID	Sampled	Benzene	Toluene	benzene	Xylenes	GRO	DRO	MRO
		(μg/L)	(μg/L)	(μg/L)	(μg/L)	(mg/L)	(mg/L)	(mg/L)
Analytical	Method	8021B	8021B	8021B	8021B	8015B	8015B	8015B
New Mexico		10	750	750	620	NE	NE	NE
MW-9	24-May-12	3.8	<1.0	1.4	<2.0	0.076	<1.0	<5.0
MW-9	10-Sep-12	<1.0	<1.0	<1.0	<2.0	0.072	<1.0	<5.0
MW-9	04-Dec-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-9	26-Mar-13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-9	27-Jun-13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-9	25-Sep-13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-9	14-Jan-14	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-9	04-Apr-14	<1.0	<1.0	<1.0	<2.0	0.075	<1.0	<5.0
MW-10	09-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-10	10-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-10	15-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-10	14-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-10	21-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-10	12-May-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-10	12-Aug-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-10	16-Nov-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-11	09-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-11	10-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-11	15-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-11	14-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-11	21-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-11	12-May-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-11	12-Aug-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-11	16-Nov-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
Downgradient								
MW-7*	09-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0

Rio Arriba County, New Mexico

NOTE: NS = Not Sampled

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

MRO = Motor Oil Range Organics

* = Monitoring Well from HWY 537 '06-'07 spill

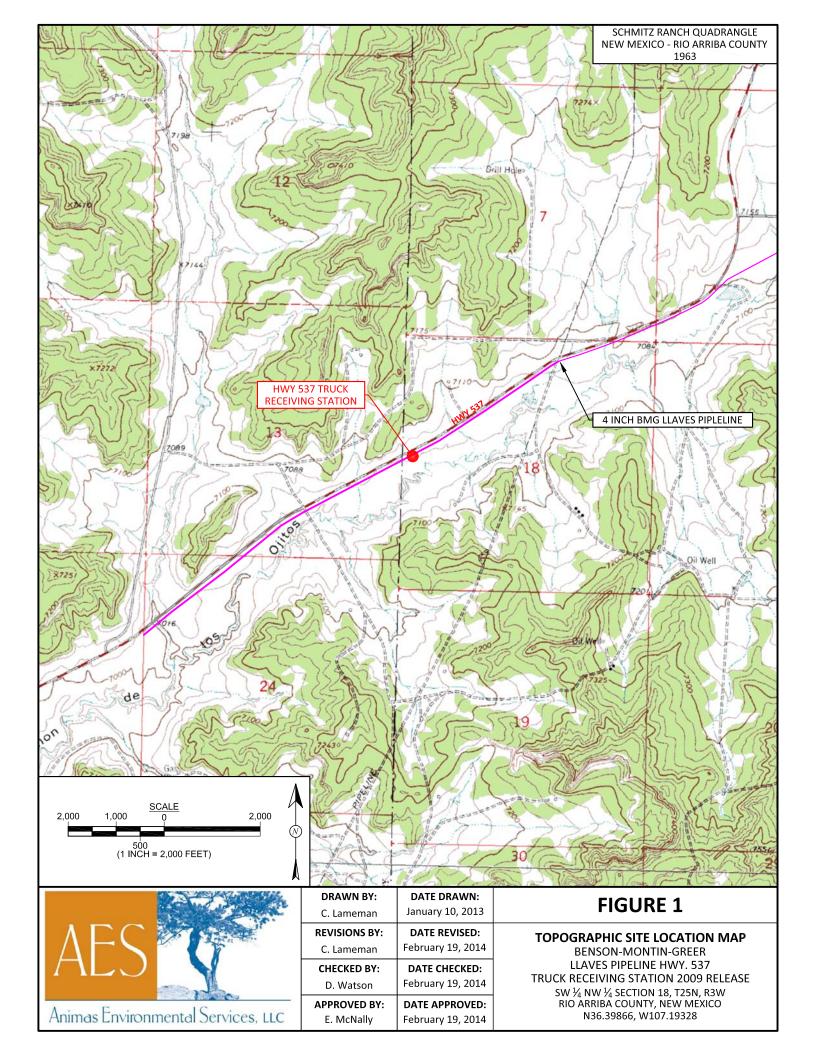
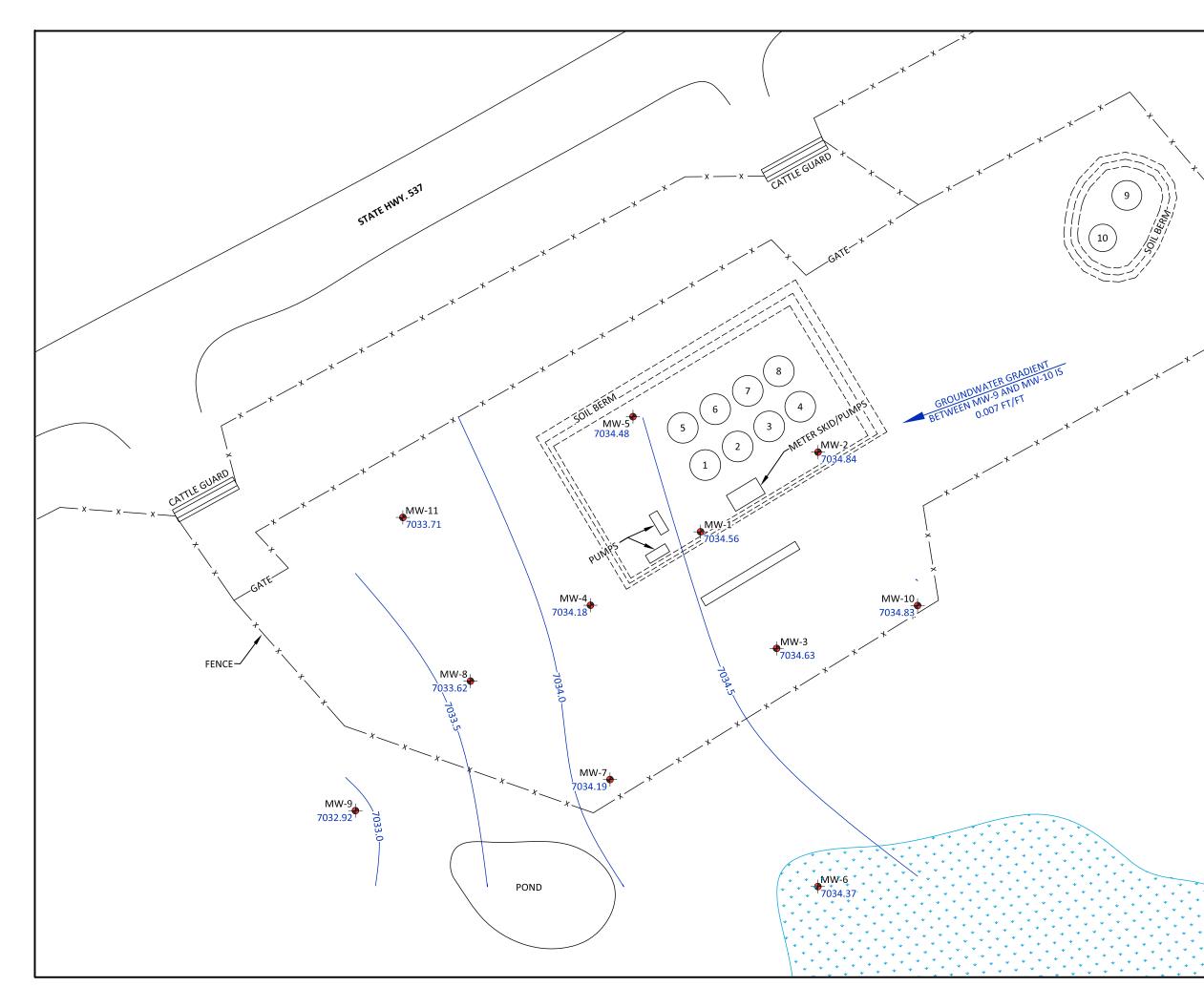




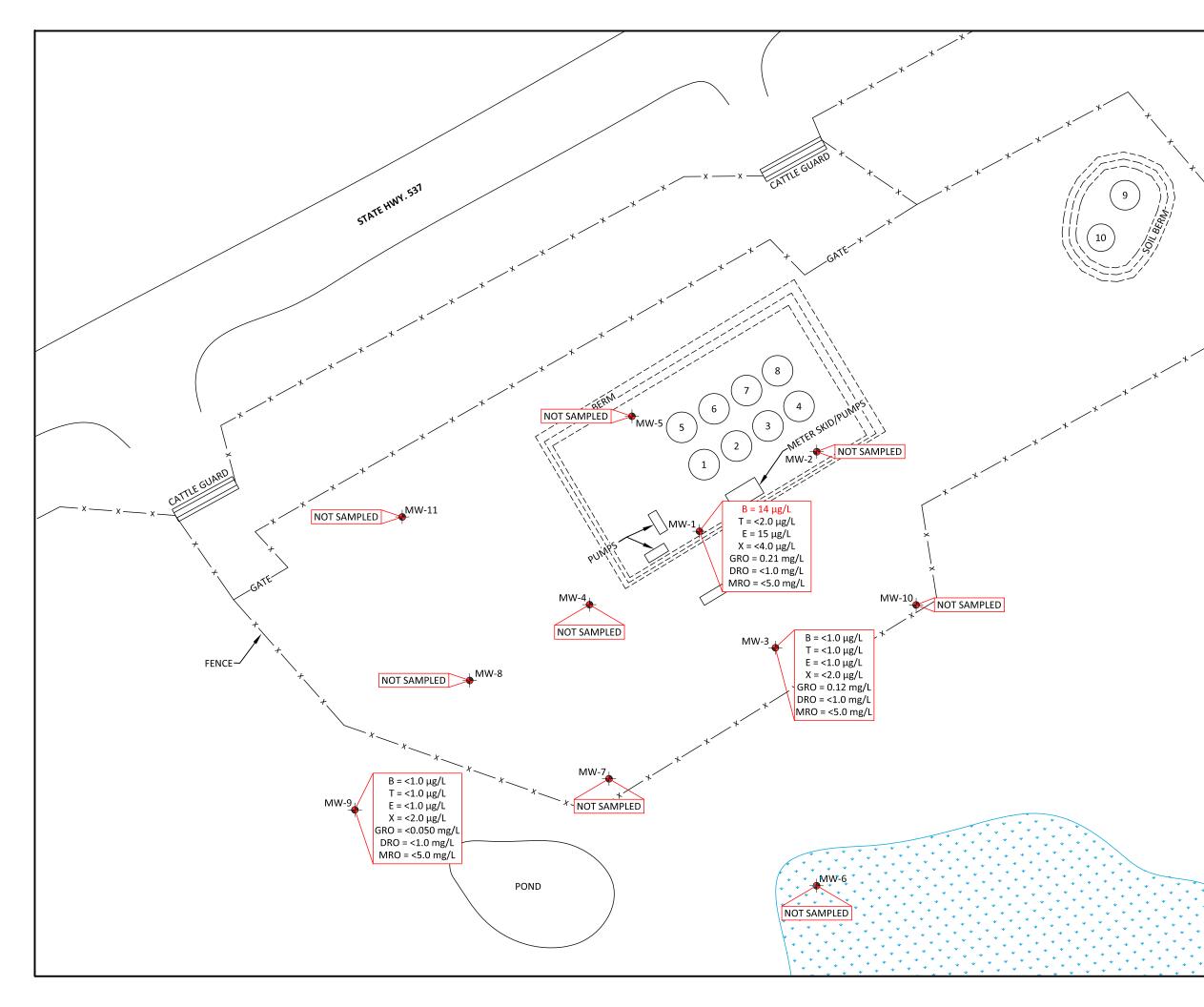
FIGURE 2 **GENERAL SITE PLAN** BENSON-MONTIN-GREER LLAVES PIPELINE HWY. 537 TRUCK RECEIVING STATION 2009 RELEASE SW¼ NW¼ SECTION 18, T25N, R3W RIO ARRIBA COUNTY, NEW MEXICO N36.39866, W107.19328 SOILBERM Animas Environmental Services, LLC DATE DRAWN: DRAWN BY: January 10, 2013 C. Lameman DATE REVISED: **REVISIONS BY:** February 19, 2014 C. Lameman CHECKED BY: DATE CHECKED: February 19, 2014 D. Watson APPROVED BY: DATE APPROVED: E. McNally February 19, 2014 LEGEND MONITORING WELL INSTALLED FEBRUARY 2009 AERIAL SOURCE: © 2012 MICROSOFT CORPORATION - AVAILABLE EXCLUSIVELY BY DIGITALGLOBE SCAL (1 INCH = 40 FEET)



GROUNDWATER ELEVATION CONTOURS, JANUARY 2014 BENSON-MONTIN-GREER LLAVES PIPELINE HWY. 537 TRUCK RECEIVING STATION 2009 RELEASE SW¼ NW¼ SECTION 18, T25N, R3W RIO ARRIBA COUNTY, NEW MEXICO N36.39866, W107.19328



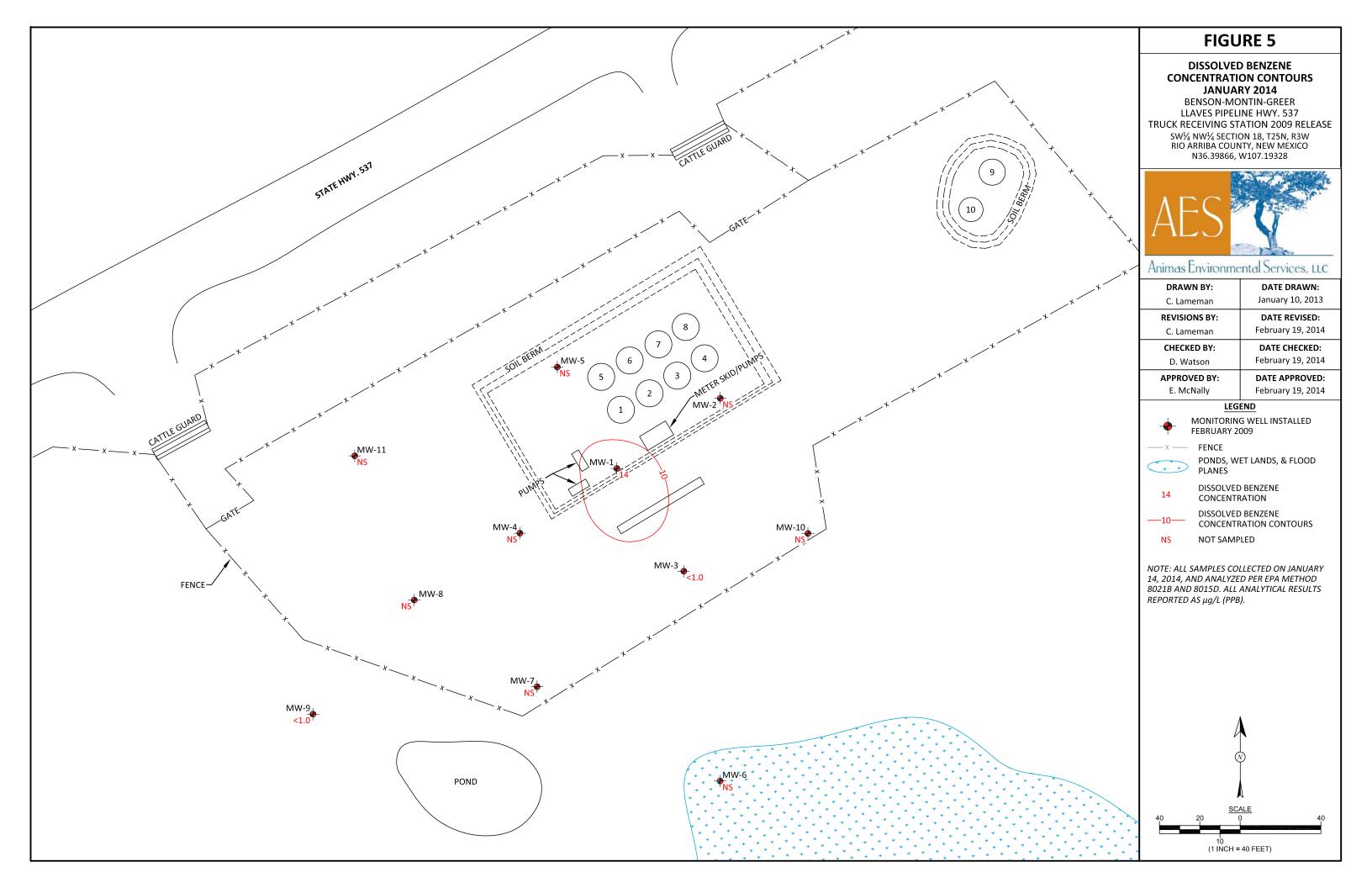
	DRAWN BY: C. Lameman	DATE DRAWN: January 10, 2013			
		-			
	REVISIONS BY: C. Lameman	DATE REVISED: February 19, 2014			
	CHECKED BY:	DATE CHECKED:			
	D. Watson	February 19, 2014			
	APPROVED BY:	DATE APPROVED:			
	E. McNally	February 19, 2014			
	LEG	END			
	HONITORIN FEBRUARY 20	G WELL INSTALLED 009			
	— × — FENCE				
	PONDS, W PLANES	ET LANDS, & FLOOD			
	7034.83 GROUNDW IN FEET (A.	/ATER ELEVATION M.S.L.)			
		/ATER ELEVATION IN FEET (A.M.S.L.)			
	NOTE: GROUNDWATER MEASUREMENTS WERE 2014.				
	/	l l			
	V				
	Q	Ŷ			
~		ALE) 40			
*	10 (1 INCH =	40 FEET)			

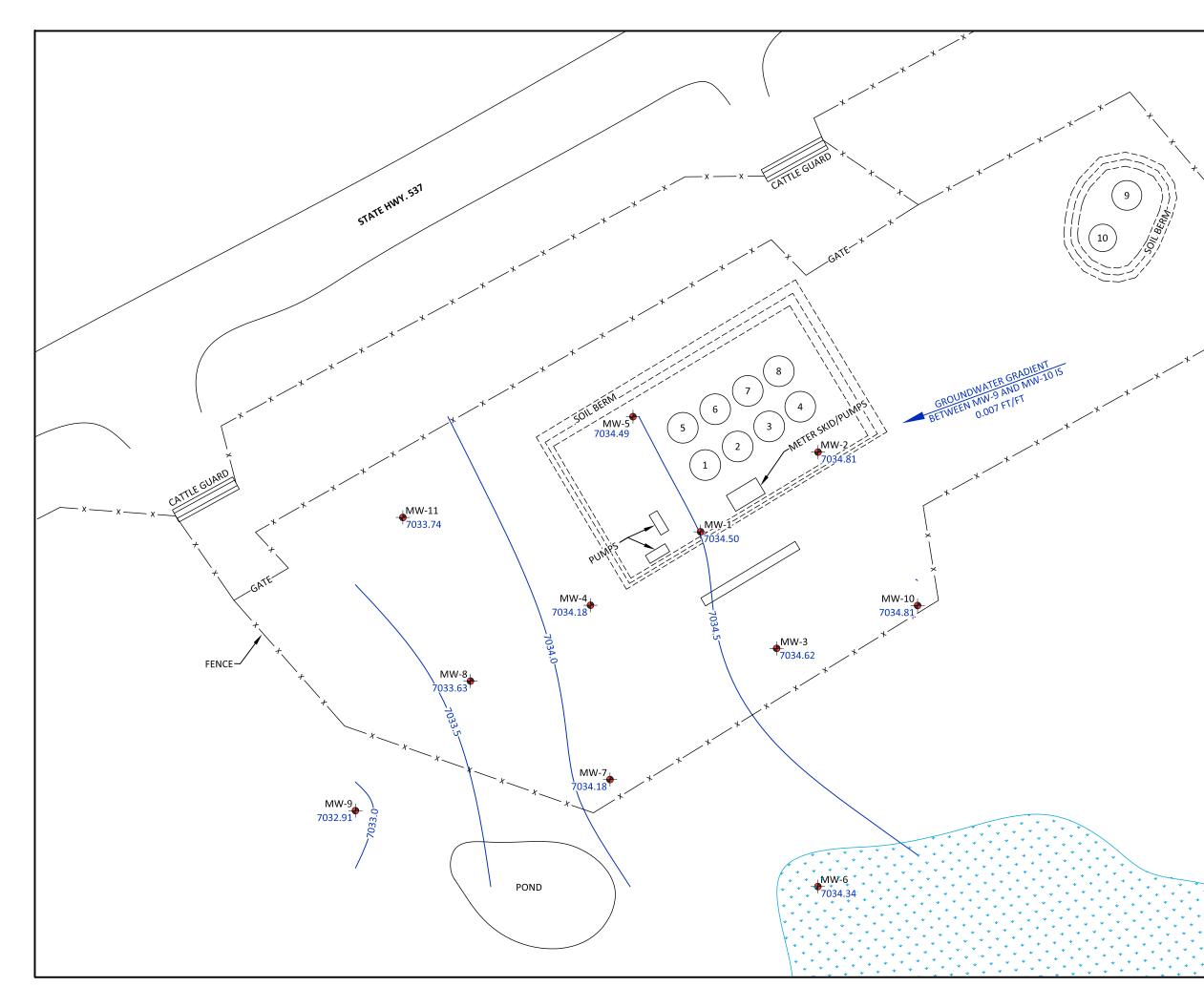


GROUNDWATER CONTAMINANT CONCENTRATIONS, JANUARY 2014 BENSON-MONTIN-GREER LLAVES PIPELINE HWY. 537 TRUCK RECEIVING STATION 2009 RELEASE SW¼ NW¼ SECTION 18, T25N, R3W RIO ARRIBA COUNTY, NEW MEXICO N36.39866, W107.19328



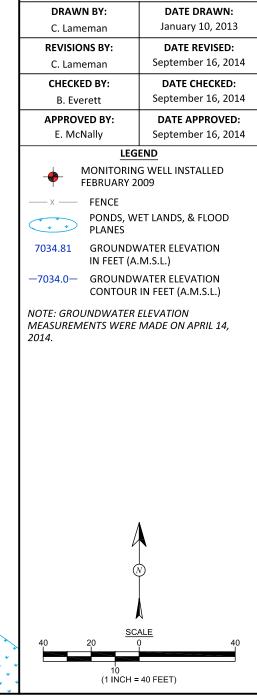
	DRAW	N BY:	DATE DRAWN:			
	C. Lam	eman	January 10, 2013			
	REVISIO	NS BY:	DATE REVISED:			
	C. Lam	eman	February 19, 2014			
	CHECKE	D BY:	DATE CHECKED:			
	D. Wa	tson	February 19, 2014			
	APPROV		DATE APPROVED:			
	E. Mcl	Nally	February 19, 2014			
		LEG	END			
		MONITORIN EBRUARY 2	g well installed D09			
	X	FENCE				
	* *	PONDS, W PLANES	ET LANDS, & FLOOD			
	В	BENZENE				
	Т	TOLUENE				
	E	ETHYLBENZ	ZENE			
	х	XYLENES				
	GRO		RANGED ORGANICS			
	DRO		NGED ORGANICS			
	MRO		L RANGED ORGANICS			
	μg/L		AMS PER LITER (PPB)			
	<		THOD LIMIT			
		ND ANALYZE	LECTED ON JANUARY D PER EPA METHOD			
		ŀ				
		Q	Ø.			
	40	20 <u>SC</u>	<u>ALE</u>) 40			
*		10	40 FEFT)			
4		(1 INCH =	40 FEEI)			

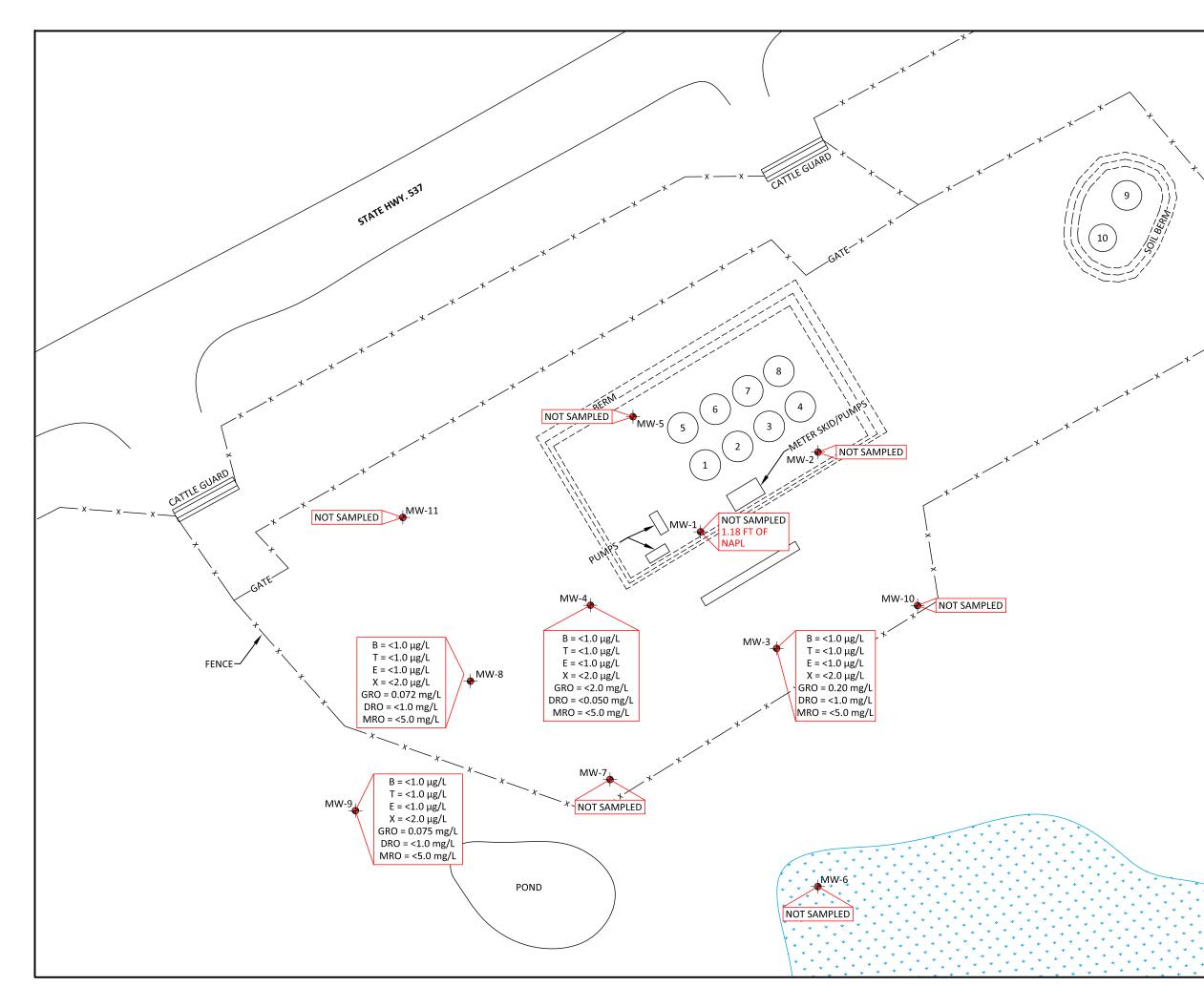




GROUNDWATER ELEVATION CONTOURS, APRIL 2014 BENSON-MONTIN-GREER LLAVES PIPELINE HWY. 537 TRUCK RECEIVING STATION 2009 RELEASE SW¼ NW¼ SECTION 18, T25N, R3W RIO ARRIBA COUNTY, NEW MEXICO N36.39866, W107.19328



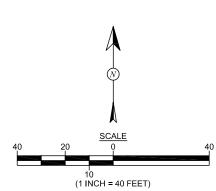


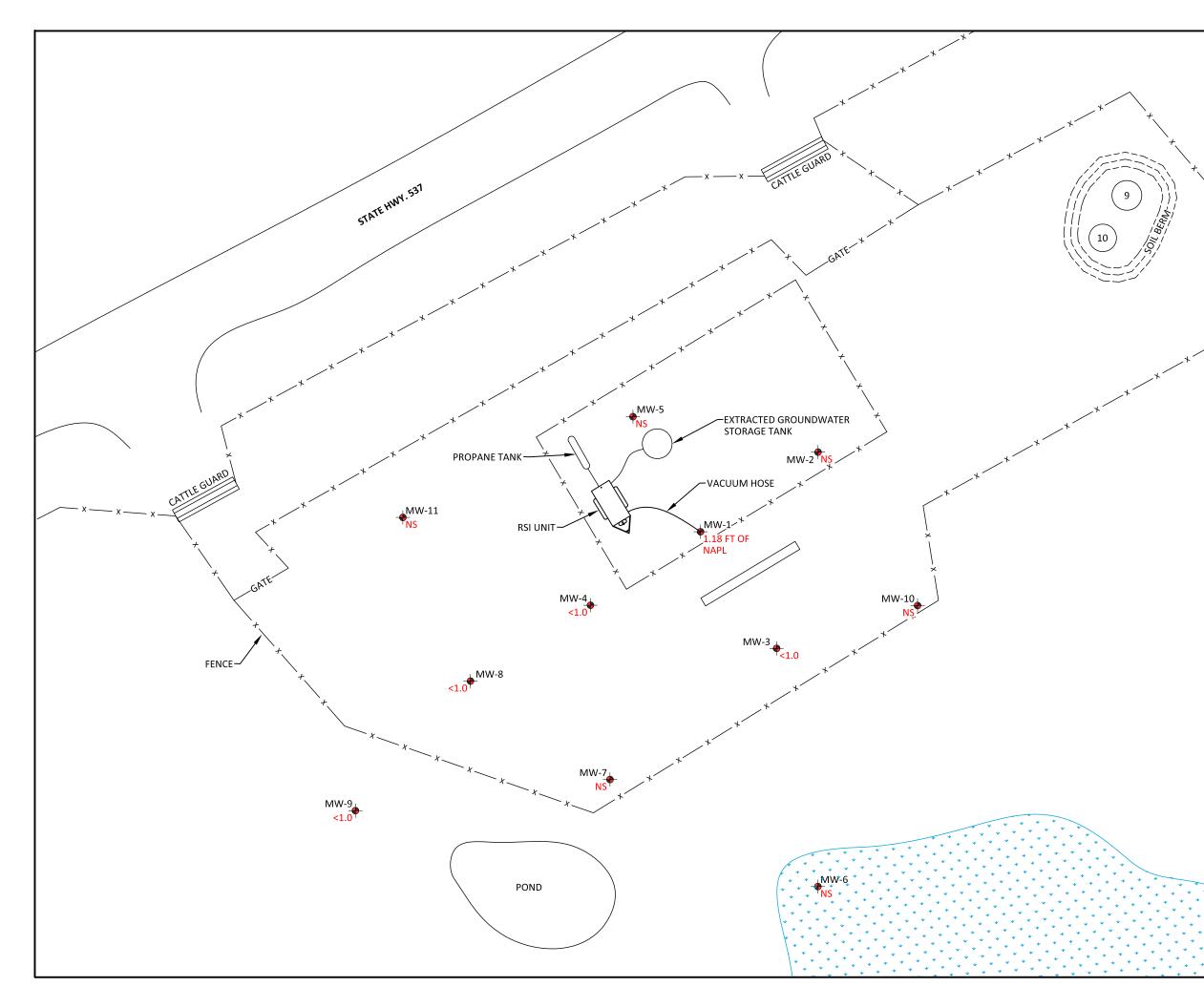


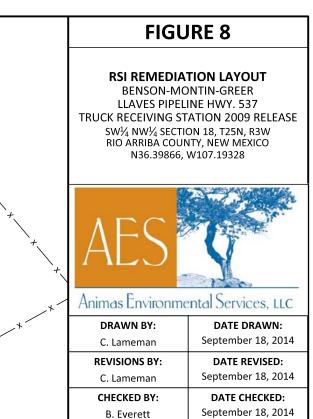
GROUNDWATER CONTAMINANT CONCENTRATIONS, APRIL 2014 BENSON-MONTIN-GREER LLAVES PIPELINE HWY. 537 TRUCK RECEIVING STATION 2009 RELEASE SW¼ NW¼ SECTION 18, T25N, R3W RIO ARRIBA COUNTY, NEW MEXICO N36.39866, W107.19328



DRAW	N BY:	DATE DRAWN:							
C. Lam	eman	January 10, 2013							
REVISIO	NS BY:	DATE REVISED:							
C. Lam	eman	September 16, 2014							
CHECK	ED BY:	DATE CHECKED:							
B. Eve	erett	September 16, 2014							
APPROV	/ED BY:	DATE APPROVED:							
E. Mc	Nally	September 16, 2014							
	LEG	END							
	MONITORIN FEBRUARY 20	G WELL INSTALLED 009							
X	FENCE								
**	PONDS, W PLANES	ET LANDS, & FLOOD							
В	BENZENE								
Т	TOLUENE								
E	ETHYLBENZ	ZENE							
Х	XYLENES								
GRO		RANGED ORGANICS							
DRO		NGED ORGANICS							
MRO		L RANGED ORGANICS							
μg/L		AMS PER LITER (PPB)							
<		NOT DETECTED ABOVE							
	LISTED ME	THOD LIMIT							
NOTE: ALL SAMPLES COLLECTED ON APRIL 14, 2014, AND ANALYZED PER EPA METHOD 8021B AND 8015D.									







APPROVED BY: E. McNally

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<1.0





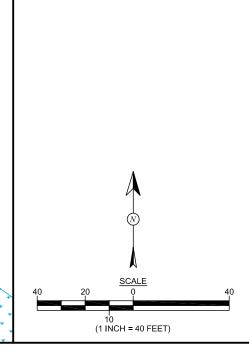
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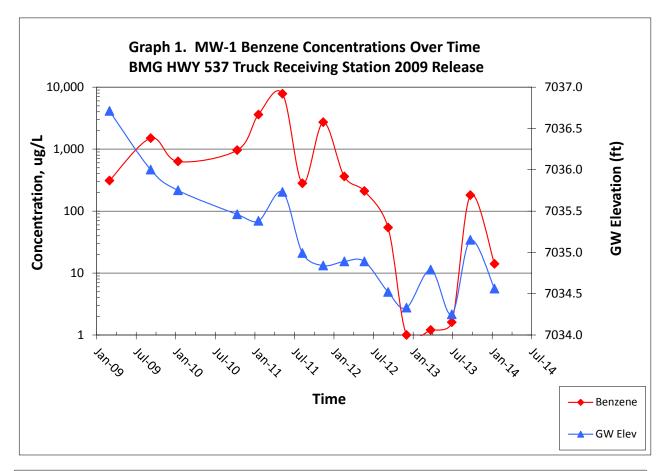
September 18, 2014

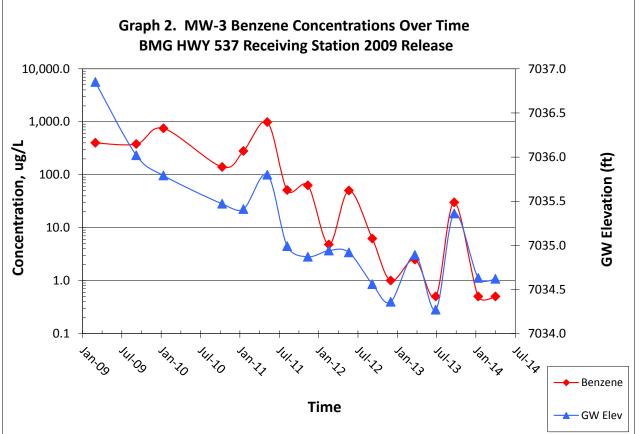


DISSOLVED BENZENE CONCENTRATION

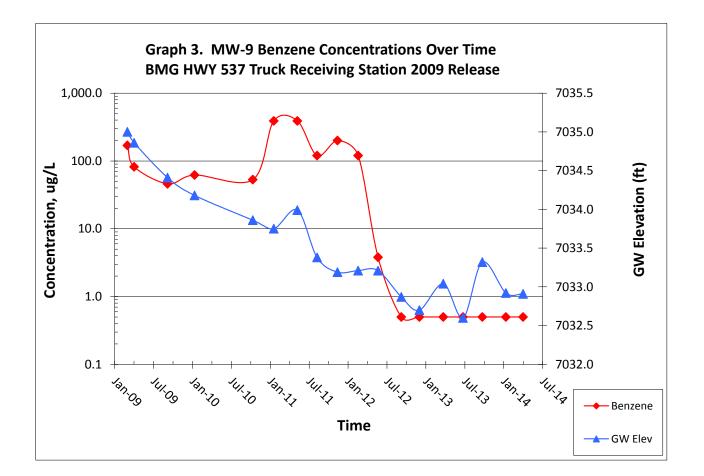
NOTE: ALL SAMPLES COLLECTED ON APRIL 4, 2014, AND ANALYZED PER EPA METHOD 8021B AND 8015D. ALL ANALYTICAL RESULTS REPORTED AS μg/L (PPB).







Periodic Progress Report September 23, 2014



DEPTH TO GROUNDWATER MEASUREMENT FORM

Animas Environmental Services

624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022 Project No.: AES 090201

Date: 1/14/2014

Time: 0934

Form: 1 of 1

Site: Tech:

Project:

Groundwater Monitoring

Hwy 537 Truck Station Spill 2009 Location: Rio Arriba County, New Mexico L. LAMONE

Well Depth to NAPL Depth to Water NAPL Time Notes / Observations I.D. (ft.) (ft.) Thickness (ft.) TOW **MW-1** 3' well casing 0936 30.10 39.51 Noove ground MW-2 39.96 4' well casing 0940 29.81 Above ground 0944 MW-3 43.38 29.38 0947 40" Above ground MW-4 29.54 43.76 CUSINA **MW-5** 0952 4405 4D" Above grond 20:3) cusi 1022 MW-6 42" Above ground 15.17 23.54 casing **MW-7** 0956 28.6 29 Alouve ground 41.00 casing **MW-8** 0959 29.65 44.10 Above ground wol casina MW-9 1027 29.68 38.76 41 Above ground well casing MW-10 1008 28.44 38.45 Noove groud well CASIM Above you MW-11 1003 30.39 43.58 31" casing

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

		PTH TO GRO MEASUREME		Animas Environmental Services 624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022			
Project:		vater Monitoring		Project No.: AES 090201			
Site:	Hwy 537	' Truck Station S	Spill 2009				114/2014
Location:	Rio Arrib	ba County, New	Mexico			Гime: 🔤	
Tech:					- F	orm: 1	of 1
Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	TPW		Notes / Observations
MW-1						T	
MW-3		-				1	
MW-8-	No 5	anne per	D.um	tson ph	call	1038	114/2014
MW-9	1032		29.68		38.76		
	1						
	1						

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

(

MON	MONITORING WELL SAMPLING RECORD					Animas Environmental Services					
Monitor Well No: MV			-1	_	624 E. Comanche, Farmington NM 87401						
					Tel. (505) 564-2281 Fax (505) 324-2022						
Site: Highway 537 2008 Spill 2009 Spill Location: Rio Arriba County, New Mexico						Project No.: <u>AES-090101</u> Date: 1-14.7014					
		Monitoring and		-	Arrival Time: 705						
Sampling Technician: Lamone, L.						Air Temp: 34° F	Citra hay -				
Purge / No Purge:						.C. Elev. (ft): 7 08	2.57				
Well	Diameter (in):	- 	1 2"		II Depth (ft):						
Confir	m D T W (ff)	30.10	Time:	1209		(taken at initial gauging (taken prior to purging					
Fin	al D.T.W. (ft):	30:30	Time:	1230		(taken after sample col					
Final D.T.W. (ft): 30:30 Time: 1230 (taken after sample collection) If NAPL Present: D.T.P.: D.T.W.: Thickness: Time:											
	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/Observation				
1218	11.43	4.277	2.30		-77.1	1st Barlen	Clean HZD				
1221	17.30	4.829	1.17	24.35	-60.0	1.0 gal.	Tan HEO				
1223	12.89	5.050	1.07		-49.9	2.0 gal	Tan H20				
1224	12.80	5.149		2451	1		Tan HZO				
1228	12.70	5.152	1.37	24.52		3.0 gul. 4.0 gd	Tam H20				
1232	12.78	4.905	1.75	24.35	-59.5	475 0	Tarte				
				-15	<u> </u>	1.75 gret	/ AL P				
							· ·				
Applyt	Lical Paramo	tors (include i		nothod :		nber and type of sar	nnla containara)				
Analyt						inder and type of sai	inple containers)				
		BTEX per EP	A Method 8	3021 (3 4	0mL Vial	s w/ HCI preserve)					
	Т	PH C6-C36 per	EPA Metho	d 8015B	<u>(2 40mL</u>	Vials w/ HCI preserve)	1999-1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1				
	Т	PH C6-C36 per	EPA Metho	od 8015B	(40mL V	/ial w/ no preservative)					
	D	isposal of Purc	ged Water:	Into	55	gal. Jrum on sif	e				
Colle		s Stored on Ice			U)					
2011	-										
Chain of Custody Record Complete: Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM											
Eaulas	ont land De-	-	-								
⊂quipm	ient Usea Dur	-				terface Level, YSI Wate					
Notes/Com	nments:	and	New Dispo	Sadie Bai	IEI						
G.41 Hap culture a											
1.54	1 Hall in	have a									
476		nime									
<u> </u>	<u>gae pi</u>	igea	····								
revised. 0	1/00/10	l									

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MONITORING WELL SAMPLING RECORD Monitor Well No: MW-3					Animas Environmental Services 624 E. Comanche, Farmington NM 87401					
									19-er	
	Highway 537				Project No.: AES 080					
		unty, New Mexi			Date: 1.14.2	014				
		Monitoring and			. /	Arrival Time: <u>//25</u> Air Temp: <u>32°</u> F	(1154 Saupl			
		No Pu		se	Т.О	.C. Elev. (ft): 700	the a			
Well	Diameter (in):		E 2" -		Fotal We	.C. Elev. (ft): 700	43.38			
Initi	al D.T.W. (ft):	29.38	Time:	0944		(taken at initial gauging (taken prior to purging				
Confir	m D.T.W. (ft):	29.37 30.50	Time:	1129						
If N	APL Present:	D.T.P.:	D.T.W	<u> ⊅ </u> .:	Th	(taken after sample co ickness: T				
						Ouring Well Purging				
	1	-	1		l	PURGED VOLUME	1			
	Temp	Conductivity			ORP					
Time	(deg C)	(µS) (mS)	(mg/L)	pH	(mV)	(see reverse for calc.)	1			
(134	11.45	4.648	2.13	24.89	-48.9	1st Barlen	Claire H20			
1139	12.34	4.789	3.51	24.62	- 74, 1	1.0 gal.	fan Hzo som			
1144	12.43	4.791	1.57	24.59	-49.8	1.0 gul. 3.0 gal.	gray HZO			
1149	12.35	4.780	1.78	24.60	-51.3		gray the			
1154	12.23	4.764	1.74	24.59		7.0 g al				
						<u></u>				
						· · · · · · · · · · · · · · · · · · ·				
		-Malananana - esta sia de statutato de destador								
										
Analy	tical Parame	ters (include	analvsis i	nethod a	and nur	nber and type of sa	mple containers)			
		-	-							
						s w/ HCl preserve)	and dan bar ("Andr Santananan sanaan na maranan sanaan sanaan sa			
						Vials w/ HCl preserve)				
						/ial w/ no preservative)	.			
	D	isposal of Pur	ged Water:	lighto	5 Th	o 55 gal. drum	on site			
Colle	ected Samples	s Stored on Ice	in Cooler:	<u> </u>	25	•	······································			
	Chain of Cu	istody Record	Complete:	ye	۶					
				•		al Analysis Laboratory,	Albuquerque, NM			
Equipn	nent Used Dui	-	-			terface Level, YSI Wate				
			New Dispo							
Notes/Con	nments:	1	· · · · · · · · · · · · · · · · · · ·			good on well				
			H	cm uv ge		1000 000 0000				
					van ¹ 964 generaties en de la seconda de la s					
						<u></u>	n (1 − 11 − 11 − 11 − 11 − 11 − 11 − 11			
		1								

					1				
MONITORING WELL SAMPLING RECORD					Animas Environmental Services				
Monitor Well No: MW-9						24 E. Comanche, Farm	ington NM 87401		
						Tel. (505) 564-2281 Fax (505) 324-2022			
	: Highway 537	•	009	Project No.: <u>AES 080101</u>					
		ounty, New Mexi			Date: 1/4/20				
		Monitoring and		1.	. /	Arrival Time: <u>1030</u> Air Temp: ۲۹۹	(109 Sample		
	je / No Purgé:		rae	y ho		.C. Elev. (ft): 705			
Well	Diameter (in):	SAO SAO	້ວ່			II Depth (ft):			
Init	ial D.T.W. (ft):	29.68	Time:	1032		(taken at initial gauging	,		
	m D.T.W. (ft): al D.T.W. (ft):		Time: Time:	<u></u>		(taken prior to purging (taken after sample col	•		
	APL Present:		D.T.W	<u>1106</u>			ime:		
							•		
	۷ ۲	-	Paramete	rs - Rec		Ouring Well Purging			
	Temp	Conductivity	DO		ORP	PURGED VOLUME			
Time	(deg C)	(µS) (mS)	(mg/L)	рН	(mV)	(see reverse for calc.)	Notes/Observations		
1052	11.28	5.070	2.44	24.74	-5.7	1 st Bailer	Clear Hzo		
1054	12.56e	4,949	1.47	24.52	-42.4	1.0 gal	cleiz 1720		
1059	12.58	5.105	1.54	91.5Z	-47.8	2.0 gale			
(103	12.68	5.114	1.24	24.48	-51.2	3.0 gali	Clear Hous		
1109	12.61	5.160	1.11	24.48			clear free		
1.0									
							ģ.		
				ļ					
				ļ					
						· ·			
Analy	tical Parame	ters (include a	analvsis r	nethod <i>i</i>	and nun	nber and type of sar	nple containers)		
		`	-				• • • • • • • • • • • • • • • • • • • •		
						s w/ HCI preserve)			
						Vials w/ HCl preserve)			
						/ial w/ no preservative)			
	D	isposal of Purç	ged Water:	unto	savene	nt			
Colle	ected Samples	s Stored on Ice	in Cooler:	yes					
	Chain of Cu	ustody Record	Complete:	yes					
				*	ronment	al Analysis Laboratory,	Albuquerque, NM		
Equipm	nent Used Dui					terface Level, YSI Wate			
		·	New Dispo						
Notes/Com	nments:	<u> </u>	· · · ·						
9.08 Hzv column 1.48 Hzv volume 4.50 gal. purged									
1.48	HEO Volui	me				······································			
4.50 6	al. purge	d							
-revised. 0	1/00/10	- i							

DEPTH TO GROUNDWATER MEASUREMENT FORM

Animas Environmental Services

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

Project:Groundwater MonitoringSite:Hwy 537 Truck Station Spill 2009Location:Rio Arriba County, New MexicoTech:

Project No.: AES 090201

Date:	4.	4.	20	14
Time:		00	721	2

Form: 1 of 1	i ime:				0	7.	50
	Form:	1	of	1			

Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
MW-1	0937	29.84	31,02	- 1.18	4' well casing above growd 4' well casing above growd 3' well asing 3' Above ground well casing
MW-2	0938		29.84		4' well easing above ground
MW-3	0923		29.39		3' well asing
MW-4	0933		29.54		3' Above ground well casing
MW-5	0937		30.30	-	3' well casing
MW-6	0945		15.20	b	of well casim
MW-7		127 a	28.62		of well casing
MW-8	0931		29.64		7.5 well casing
MW-9	0943		29.69		3' well casing 3' well casing 3' well casing
MW-10	0925		28.44		3' well casing
MW-11	0935		all 30.36	2	3' Well casing
					J
				i	
~					
2					
:					
Wells r	neasured	with KECK wate	er level or KECK	interface tape,	decontaminated between each well measurement.

MONI	TORING W	ELL SAMPLI	NG RECO	ORD	Animas Environmental Services			
Mon	itor Well No:	MW-	.1	_	624 E. Comanche, Farmington NM 87401			
						Геl. (505) 564-2281 Fax		
		Truck Station S				Project No.: AES 0902		
	Context distances of the second	unty, New Mexic			Date: $4 \cdot 4 \cdot 201 - 4$			
		Monitoring and			. 4	Arrival Time: <u>102 7</u>		
Sampling	Technician:	11/59	•		·	Air Temp: <u>370 F</u>		
Purg	e / No Purge:	Purge	3		1.0. - XA () - XA - 7	.C. Elev. (ft): 7064	4.66	
VVell L	Diameter (in):		Time:	- '	otal we	H Depth (ft): 43.		
Initial D.T.W. (ft): Time: (taken at initial gauging of all wells) Confirm D.T.W. (ft): Time: (taken prior to purging well)								
Ein	$\frac{11}{2} D T W (11)$					(taken after sample col		
IF NU	ADI Drosont:	DTP. 2004		· 8/07	- Thi			
If NAPL Present: D.T.P.: 2994 D.T.W.: 31.02 Thickness: 1.18 Time: 0937								
	V	-	Parameter	rs - Reco		Ouring Well Purging		
	Temp	Conductivity	DO		ORP	PURGED VOLUME		
Time	(deg C)	(µS) (mS)	(mg/L)	рН	(mV)	(see reverse for calc.)	Notes/Observations	
			HA-	$- \leftarrow$	A	<i>p</i>		
				<u> </u>	WY	· · ·		
		ſ	VV		·			
					_			
							-	
						l		
Analvt	ical Parame	ters (include a	analysis n	nethod a	and nur	hber and type of sar	nple containers)	
		-	-				,	
						s w/ HCl preserve)		
						Vials w/ HCI preserve)	-	
		· · · · · ·				/ial-w/ no preservative)		
··		isposal of Purg		X	-m	Ch. Ale		
Colle	•	s Stored on Ice		/	10	27Mp1E	-~	
	Chain of C	ustody Record	-			•		
		-	-			al Analysis Laboratory,		
Equipm	ient Used Du					terface Level, YSI Wate	er Quality Meter	
		and	New Dispo	sable Bai	Ier			
Notes/Com	iments:							
	~~~~~							

L revised: 08/10/09

MONI	TORING W	ELL SAMPL	ING RECO	MONITORING WELL SAMPLING RECORD Animas Environmental Services								
Mon	itor Well No:	MW	-3		624 E. Comanche, Farmington NM 87401							
				-	1	ГеІ. (505) 564-2281 Fax	(505) 324-2022					
		Truck Station S			-	Project No.: AES 0902	201					
Location: Rio Arriba County, New Mexico Date: 4-4-2014												
Project: Groundwater Monitoring and SamplingArrival Time: 09491020 SamplingSampling Technician: LL 4 JSAir Temp: 34° F												
	e / No Purge:				- то	Air Temp: <u>34</u> .C. Elev. (ft): 7064						
	Diameter (in):					ell Depth (ft): 41						
	al D.T.W. (ft):		Time:	0923	-	(taken at initial gauging						
	m D.T.W. (ft):		- Time:	0951		(taken prior to purging						
Final D.T.W. (ft): 30.04 Time: 1018 (taken after sample collection)												
lf N	APL Present:	D.T.P.:	D.T.W	'.:	Thi	ickness: T	ime:					
	v	Vater Quality	Paramete	rs - Rec	orded D	ouring Well Purging						
	Temp	Conductivity	DO		ORP	PURGED VOLUME						
Time	(deg C)	(µS) (mS)		e-pH	(mV)	(see reverse for calc.)	Notes/Observations					
0958	13.11	0.318	<b>511</b>	6.82	-60.4	15 gal.	dein Hro					
1000	(2.37	0.338	202	6.82	-785	10 0						
		0.344		1	-59.9	7.0 gar.	gray Heo Slight					
1004	12.28		1.25	1	·	a.u gal	gray Fizo fren					
1010	12.14	0.359	1.25	6.90	47.7	3. U gul	( 11					
4101	12,19	0.362	1.38	6.88		1.0 gal. 2.0 gal 3.0 gal 4.0 gal 5.0 gal 5.75 gal.	the second secon					
1015	12.13	0.364	1.53	6.89	-41.5	5.0 gul	gray H20					
1020	12.10	0.362	1.74	6.90	-45.1	5.75 gal.	gray tro					
						·	•					
		:										
		· · · · · · · · · · · · · · · · · · ·										
			]									
Analyt	ical Parame	ters (include	analysis n	nethod	and nur	nber and type of sar	nple containers)					
		BTEX per EF	PA Method 8	3021 (3 4	0mL Vial	s w/ HCl preserve)						
	Т	PH C6-C36 per	EPA Metho	d 8015B	(2 40mL	Vials w/ HCl preserve)						
		· · · · ·				/ial w/ no preservative)	andraan maadiida di kaadiidaan kaadiidaan kaana kaana kaana ahaana kaana ahaana kaana ahaana kaana kaana kaana					
		isposal of Pur			·							
Colle		s Stored on Ice				and a second						
		ustody Record		1			, 2011, 2017, 2017, 2017, 2017, 2017, 2017, 2017, 2017, 2017, 2017, 2017, 2017, 2017, 2017, 2017, 2017, 2017, 2					
		-	-	ŧŧ	ironment	al Analysis Laboratory,	Albuquerque NM					
Fauinm	ent llead Du		-	<b>C</b>	~~~	terface Level, YSI Wate						
счарш			New Dispo			tondoo Level, TOI Wald						
Notes/Com	ments:	1										
		$\sim$										
1.9/ 1-	1-120 colum. 12° vulun	1										
5.75 q	al. to be	puysed										
	8/49/99											
revised, 00												

MONI	MONITORING WELL SAMPLING RECORD Animas Environmental Services							
		mw-4	•					
wion	litor well no:	11W -1		_		24 E. Comanche, Farm Γel. (505) 564-2281 Fax	•	
Site	Highway 537	Truck Station S	nill 2009		1	Project No.: AES 0902	and a state of the second s	
		ounty, New Mexic			-	Date: 4.4.		
		Monitoring and	Arrival Time: 1116	153 sample				
	g Technician:				_	Air Temp: 37°	- Te	
Purge / No Purge: Purge T.O.C. Elev. (ft):								
	Diameter (in):	Construction of the second	<b>T</b> ime e :			II Depth (ft): <u>43.9</u>		
1	al D.T.W. (ft): m D.T.W. (ft):		Time:	093	2	(taken at initial gauging (taken prior to purging	· · ·	
	al D.T.W. (ft):	The second	Time:	1120		(taken after sample col		
	APL Present:		D.T.W				ime:	
	v	Vater Quality	Paramete	rs - Rec	orded D	ouring Well Purging		
	T	-				PURGED VOLUME		
Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pН	ORP (mV)	(see reverse for calc.)	Notes/Observations	
/124	(deg C) 17.44	$(\mu s)$ (ms) 0.421	(mg/L) 287	7.22	(111)	(see reverse for calc.)	Claim H20	
1131	17.53	6.432	1.52	7.01	60.3	1 - SAILER	ch.n= 17. fan 1/20	
1137	12.27	0,433	1.82	6.91	69.7	3.0 gal	Lt Ten H20	
1144	12.39	0.435	1.68	6.87	79.2		11 120 1120 11 11	
1153	12.16	0.435	2.86	6.90	89.4	5.0 gal	It Tan N=20	
<i>#</i> ?∨	(21)0	0		<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>	• / · /	7.0 9	Ci Tan 1999	
			-					
Analyt	ical Parame	ters (include :	analvsis n	nethod :	and nun	nber and type of sar	nnle containers)	
		•						
					******	s w/ HCI preserve)		
	Т	PH C6-C36 per	EPA Metho	d 8015B	(2 40mL	Vials w/ HCl preserve)		
						'ial w/ no preservative)		
	D	isposal of Purg	ed Water:	Into	55	Sal. drum on 5	ti	
Colle	cted Samples	s Stored on Ice	in Cooler:		yes	SAR. drum on 5		
	Chain of Cu	istody Record	Complete:		1es			
						al Analysis Laboratory,		
Equipm	ient Used Dui	•				terface Level, YSI Wate	r Quality Meter	
		and	New Dispo	sable Bai	iler			
Notes/Com								
14-34	Column Volumn	) <b> </b>						
<i>c. 34</i>	VU/UMN	1						
7.0 9.	al.							
revised. 00	8 <del>/10/09</del>							

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MONI	TORING W	ELL SAMPLI	NG REC	ORD	A	nimas Environme	ental Services
Mon	itor Well No:	MW	-8		6	24 E. Comanche, Farm	nington NM 87401
						Tel. (505) 564-2281 Fa	- 1
Site:	Highway 537	Truck Station S	pill 2009		***	Project No.: AES 090	
Location: Rio Arriba County, New MexicoDate: 4-4-2014Project: Groundwater Monitoring and SamplingArrival Time: 1210							
			Sampling		- /	Arrival Time: /2/C Air Temp: <u>39</u> °	239 Sample
Sampling Technician: //L  Air Temp:  39° F    Purge / No Purge:  Purge  T.O.C. Elev. (ft):  7063.27							
Well Diameter (in): 2 Total Well Depth (ft): 44.1							
Initia	al D.T.W. (ft):	0931 \$		29.64	1	(taken at initial gaugin	g of all wells)
Confir	m D.T.W. (ft):	7. 29,4		1212		(taken prior to purging	well)
	al D. I. W. (Π): ΔΡΙ Present:	<u>30.20</u> D.T.P.:	Time:	1237	Thi	(taken after sample co ickness: 1	
		*					
	V	Vater Quality	Paramete	rs - Rec	orded D	ouring Well Purging	
	Temp	Conductivity	DO		ORP	PURGED VOLUME	
Time	(deg C)	(µS) (mS)	(mg/L)	pH	(mV)	(see reverse for calc.)	
1218	12.30	Oyole	2.21	6.95	-21.4	1ª Baulia	Clean Hzo
1224	13.41	0.413	1,31	6.78	-62.0	1.0 gal	1120 has slight
1230	13.22	0.414	1.50	6.78	-30.8	3.0 gal	Sheen.
123Le	13.14	0.423	1.40	6.80	-19.8	5.0 gel	slight sleen
1239	13.14	0.424	1.70	6.80	-14.9	1.0 gal 3.0 gal 5.0 gal 7.0 gul	slight sleen U Tan Hzo slight sheen
							slight sheen
							<i>y</i>
Analyt	ical Parame	ters (include a	analysis n	nethod a	and nun	nber and type of sa	mple containers)
		BTEX per EP	A Method 8	3021 (3 4)	OmL Vial	s w/ HCI preserve)	
	Т					Vials w/ HCI preserve)	
						/ial w/ no preservative)	
						el drum on si	te
Colle	cted Samples	s Stored on Ice	in Cooler:	Ve	s J		
		stody Record		1	-		
				t		al Analysis Laboratory,	Albuquerque, NM
Equipm	ent Used Du		-			terface Level, YSI Wate	
			New Dispo			1999 (1997) (1997) (1999) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (199	
Notes/Com	ments:	<u>t</u>					
14.45	column		Az	phos	51,94	it sheep	
2.34	Volume		Red	novae	9000	on well	
7.0 g	column Volume el. to be	pursed	•	<u> </u>	J		
<del>revised. 00</del>							

MONI	TORING W	ELL SAMPLI	NG RECO	ORD	Animas Environmental Services				
Mon	itor Well No:	-9	_	1	24 E. Comanche, Farm	-			
						Tel. (505) 564-2281 Fax			
		Truck Station S			-	Project No.: AES 090			
		unty, New Mexi			-	Date: <u>4-4-</u>			
	<b>Technician</b> :	Monitoring and			- '	Arrival Time: <u>/648</u> Air Temp: <u>38°</u> A			
	e / No Purge:				- то		52.6		
	Diameter (in):		<u> </u>			ell Depth (ft): 39	.15		
		29.69	Time:	0943		(taken at initial gauging			
		29.69		1051		(taken prior to purging			
	al D.T.W. (ft):		Time:	1109		(taken after sample co	llection)		
lf N/	APL Present:	D.T.P.:	D.T.W	'.: <u> </u>	Thi	ickness: T	ime:		
	v	Vater Quality	Paramete	rs - Rec	orded D	ouring Well Purging			
	Temp	Conductivity	DO		ORP	PURGED VOLUME			
Time	(deg C)	(µS) (mS)	(mg/L)	рН	(mV)	(see reverse for calc.)	Notes/Observation		
				1	·····		1		
10.52	13.02	0.366	1.77	7.03	1	<u>.,5 50.</u>	Tan Heo		
1058	13.0 Le	0.381	2.52	6.87	-324	1.0 gel.	Ton Huo		
1102	12.93	0.387	2.33	6.85	-27,8	2.0 gal	Tantico		
1104	12.94	0.405	1.54	6.90	-45.1	3, Ø Gal			
1104	12.77	0.418	1.36	6.90	-53.2		Tan His Tan Kio		
	12.89	0.407	2.81	6.89	-48.2	475.0	Tou kus		
1110	12.8	0.707	6.01	6.89	70.6	- 7, 15 SN2.	ian f-c		
							· · · · · · · · · · · · · · · · · · ·		
					· · · · · ·				
	ical Darama	to vo (in oludo							
Anaiyt	Ical Parame	ters (include	analysis n	nethoa	and nun	nber and type of sa	mple containers)		
						s w/ HCI preserve)			
	Т	PH C6-C36 per	EPA Metho	d 8015B	(2 40mL	Vials w/ HCl preserve)			
						/ial w/ no preservative)			
_	D	isposal of Pur	ged Water:	Into	55 9	al down on si	to		
Colle	cted Samples	s Stored on Ice	in Cooler:	yes	<u> </u>				
		istody Record							
						al Analysis Laboratory,	Albuquerque NM		
		Analytical	aboratory			a., maryolo caboratory,			
<b>F</b> i_	ant lla ad Duu	-	-	<u> </u>			an Ossality Mater		
Equipm	ent Used Dur	ing Sampling:	Keck Wate	r Level o		terface Level, YSI Wate	er Quality Meter		
Equipm	ent Used Dur	ing Sampling:	-	r Level o		terface Level, YSI Wate	er Quality Meter		
Equipm Notes/Com		ing Sampling:	Keck Wate	r Level o		terface Level, YSI Wate	er Quality Meter		
Notes/Com 7. 4 6  -	ments: tru cOlu M	ing Sampling: and ∧	Keck Wate	r Level o		terface Level, YSI Wate	er Quality Meter		
Notes/Com 7. 4 6  -	ments:	ing Sampling: and ∧	Keck Wate	r Level o		terface Level, YSI Wate	er Quality Meter		
Notes/Com	ments: tru cOlu M	ing Sampling: and ∧	Keck Wate	r Level o		terface Level, YSI Wate	er Quality Meter		



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

January 23, 2014

Debbie Watson Animas Environmental Services 624 East Comanche Farmington, NM 87401 TEL: (505) 486-4071 FAX

RE: BMG Hwy 537 2009 Release

OrderNo.: 1401707

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 4 sample(s) on 1/16/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> 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 qualifers 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Date Reported: 1/23/2014

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Animas Environmental Services **Project:** BMG Hwy 537 2009 Release

1401707-001

Lab ID:

Client Sample ID: MW-1 Collection Date: 1/14/2014 12:32:00 PM Received Date: 1/16/2014 10:00:00 AM

Matrix: AQUEOUS Analyses Result **RL** Qual Units **DF** Date Analyzed Batch **EPA METHOD 8015D: DIESEL RANGE** Analyst: BCN Diesel Range Organics (DRO) mg/L ND 1.0 1 1/17/2014 5:42:24 PM 11276 Motor Oil Range Organics (MRO) ND 5.0 mg/L 1 1/17/2014 5:42:24 PM 11276 Surr: DNOP 103 %REC 1/17/2014 5:42:24 PM 62.7-145 1 11276 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JMP Gasoline Range Organics (GRO) 1/17/2014 10:03:44 PM R16162 0.21 0.10 mg/L 2 Surr: BFB 97.6 80.4-118 %REC 2 1/17/2014 10:03:44 PM R16162 **EPA METHOD 8021B: VOLATILES** Analyst: JMP 1/17/2014 10:03:44 PM R16162 Benzene 2 14 2.0 µg/L Toluene ND 2.0 µg/L 2 1/17/2014 10:03:44 PM R16162 Ethylbenzene 15 2.0 µg/L 2 1/17/2014 10:03:44 PM R16162 Xylenes, Total ND 4.0 µg/L 2 1/17/2014 10:03:44 PM R16162 Surr: 4-Bromofluorobenzene 103 85-136 %REC 2 1/17/2014 10:03:44 PM R16162

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	Е	Value above quantitation range
	J	Analyte detected below quantitation limits

- RSD is greater than RSDlimit 0
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank В
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Page 1 of 7 Sample pH greater than 2 for VOA and TOC only. Р
- RL Reporting Detection Limit

Date Reported: 1/23/2014

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Animas Environmental Services **Project:** BMG Hwy 537 2009 Release

1401707-002

Lab ID:

**Client Sample ID:** MW-3 Collection Date: 1/14/2014 11:54:00 AM

Received Date: 1/16/2014 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	E				Analys	t: BCN
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	1/17/2014 6:13:20 PM	11276
Motor Oil Range Organics (MRO)	ND	5.0	mg/L	1	1/17/2014 6:13:20 PM	11276
Surr: DNOP	102	62.7-145	%REC	1	1/17/2014 6:13:20 PM	11276
EPA METHOD 8015D: GASOLINE RAI	NGE				Analys	t: JMP
Gasoline Range Organics (GRO)	0.12	0.050	mg/L	1	1/17/2014 11:29:25 PM	/ R16162
Surr: BFB	101	80.4-118	%REC	1	1/17/2014 11:29:25 PN	/ R16162
EPA METHOD 8021B: VOLATILES					Analys	t: JMP
Benzene	ND	1.0	µg/L	1	1/17/2014 11:29:25 PM	/ R16162
Toluene	ND	1.0	µg/L	1	1/17/2014 11:29:25 PM	/ R16162
Ethylbenzene	ND	1.0	µg/L	1	1/17/2014 11:29:25 PM	/ R16162
Xylenes, Total	ND	2.0	µg/L	1	1/17/2014 11:29:25 PM	/ R16162
Surr: 4-Bromofluorobenzene	101	85-136	%REC	1	1/17/2014 11:29:25 PM	/ R16162

Matrix: AQUEOUS

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	Е	Value above quantitation range
	J	Analyte detected below quantitation limits
	0	RSD is greater than RSDlimit
	R	RPD outside accepted recovery limits

- S Spike Recovery outside accepted recovery limits
- В 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 7
- Р Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Date Reported: 1/23/2014

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Animas Environmental Services **Project:** BMG Hwy 537 2009 Release

1401707-003

Lab ID:

Client Sample ID: MW-9 Collection Date: 1/14/2014 11:09:00 AM

Received Date: 1/16/2014 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E				Analys	t: BCN
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	1/17/2014 6:44:04 PM	11276
Motor Oil Range Organics (MRO)	ND	5.0	mg/L	1	1/17/2014 6:44:04 PM	11276
Surr: DNOP	105	62.7-145	%REC	1	1/17/2014 6:44:04 PM	11276
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: JMP
Gasoline Range Organics (GRO)	ND	0.050	mg/L	1	1/18/2014 12:55:01 AN	/ R16162
Surr: BFB	89.3	80.4-118	%REC	1	1/18/2014 12:55:01 AN	/I R16162
EPA METHOD 8021B: VOLATILES					Analys	t: JMP
Benzene	ND	1.0	µg/L	1	1/18/2014 12:55:01 AN	/ R16162
Toluene	ND	1.0	µg/L	1	1/18/2014 12:55:01 AN	/ R16162
Ethylbenzene	ND	1.0	µg/L	1	1/18/2014 12:55:01 AN	/ R16162
Xylenes, Total	ND	2.0	µg/L	1	1/18/2014 12:55:01 AN	/ R16162
Surr: 4-Bromofluorobenzene	100	85-136	%REC	1	1/18/2014 12:55:01 AN	/ R16162

Matrix: AQUEOUS

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

Qualifiers: * Value exceeds Maximum Contaminant Level. B Analyte det

- 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 3 of 7
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Analytical Report Lab Order 1401707 Date Reported: 1/23/2014

CLIENT:	Animas Environmental Services		(	Client Sampl	le ID: Trij	p Blank	
Project:	BMG Hwy 537 2009 Release			Collection 1	Date:		
Lab ID:	1401707-004	Matrix:	TRIP BLANK	<b>Received</b>	Date: 1/1	6/2014 10:00:00 AM	
Analyses		Result	RL Qual	Units	DF	Date Analyzed	Batch
EPA MET	HOD 8021B: VOLATILES					Analyst	: JMP
EPA MET Benzene		ND	1.0	µg/L	1	Analyst 1/18/2014 1:23:24 AM	: <b>JMP</b> R16162
		ND ND	1.0 1.0	μg/L μg/L	1 1	,	-
Benzene					1 1 1	1/18/2014 1:23:24 AM	R16162
Benzene Toluene	zene	ND	1.0	μg/L	1 1 1 1	1/18/2014 1:23:24 AM 1/18/2014 1:23:24 AM	R16162 R16162

## Hall Environmental Analysis Laboratory, Inc.

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	Е	Value above quantitation range
	J	Analyte detected below quantitation limits
	0	RSD is greater than RSDlimit
	D	PPD outside accepted recovery limits

- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 4 of 7
  - P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

WO#:	1401707
	22 T 14

	Environmental Servic wy 537 2009 Release								
Sample ID MB-11276	SampType: MBLI	ĸ	Test	tCode: El	PA Method	8015D: Diese	l Range		
Client ID: PBW	Batch ID: 1127	6	R	unNo: 1	6138				
Prep Date: 1/17/2014	Analysis Date: 1/17	/2014	S	eqNo: 4	65316	Units: mg/L			
Analyte	Result PQL S	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND 1.0								
Motor Oil Range Organics (MRO) Surr: DNOP	ND 5.0 1.0	1.000		102	62.7	145			
Sample ID LCSD-11276	SampType: LCSI	)	Test	tCode: El	PA Method	8015D: Diese	l Range		
Client ID: LCSS02	Batch ID: 1127	6	R	unNo: 1	6138				
Prep Date: 1/17/2014	Analysis Date: 1/17	/2014	S	eqNo: 4	65400	Units: mg/L			
Analyte	Result PQL S	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.1 1.0	5.000	0	102	73.3	145	1.40	20	
Surr: DNOP	0.49	0.5000		97.7	62.7	145	0	0	
Sample ID LCS-11276	SampType: LCS		Test	tCode: El	PA Method	8015D: Diese	l Range		
Client ID: LCSW	Batch ID: 1127	6	R	unNo: 1	6138				
Prep Date: 1/17/2014	Analysis Date: 1/17	/2014	S	eqNo: 4	65873	Units: mg/L			
Analyte	Result PQL S	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.2 1.0	5.000	0	103	73.3	145			
Surr: DNOP	0.52	0.5000		104	62.7	145			

#### **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

WO#:	1401707
	22 Jan 14

Client: Project:		Environmen vy 537 2009									
Sample ID	5ML RB	SampT	/pe: <b>ME</b>	BLK	Tes	tCode: E	PA Method	8015D: Gaso	line Rang	e	
Client ID:	PBW	Batch	ID: <b>R1</b>	6162	F	RunNo: 1	6162				
Prep Date:		Analysis Da	ate: 1/	17/2014	S	SeqNo: 4	65718	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang Surr: BFB	je Organics (GRO)	ND 18	0.050	20.00		88.0	80.4	118			
Sample ID	2.5UG GRO LCS	SampTy	/pe: LC	s	Tes	tCode: E	PA Method	8015D: Gaso	line Rang	e	
Client ID:	LCSW	Batch	ID: <b>R1</b>	6162	F	RunNo: 1	6162				
Prep Date:		Analysis Da	ate: 1/	17/2014	S	SeqNo: 4	65719	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	je Organics (GRO)	0.57	0.050	0.5000	0	113	80	120			
Surr: BFB		19		20.00		97.1	80.4	118			
Sample ID	1401707-001AMS	SampTy	/pe: <b>MS</b>	6	Tes	tCode: E	PA Method	8015D: Gaso	line Rang	e	
Client ID:	MW-1	Batch	ID: <b>R1</b>	6162	F	lunNo: 1	6162				
Prep Date:		Analysis Da	ate: 1/	17/2014	S	SeqNo: 4	65727	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	je Organics (GRO)	1.2	0.10	1.000	0.2068	104	67.7	128			
Surr: BFB		42		40.00		105	80.4	118			
Sample ID	1401707-001AMS	D SampTy	/pe: <b>M\$</b>	SD	Tes	tCode: E	PA Method	8015D: Gaso	line Rang	e	
Client ID:	MW-1	Batch	ID: <b>R1</b>	6162	F	RunNo: 1	6162				
Prep Date:		Analysis Da	ate: 1/	17/2014	S	SeqNo: 4	65728	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	je Organics (GRO)	1.2	0.10	1.000	0.2068	99.4	67.7	128	3.76	20	
Surr: BFB		42		40.00		104	80.4	118	0	0	

#### **Qualifiers:**

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

23-Jan-14

Client: Project:	Animas E BMG Hw										
Sample ID	5ML RB	SampT	уре: М	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID:	PBW	Batch	n ID: <b>R1</b>	6162	F	RunNo: 1	6162				
Prep Date:		Analysis D	ate: 1	17/2014	S	SeqNo: 4	65750	Units: µg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	1.0								
Foluene		ND	1.0								
Ethylbenzene		ND	1.0								
Kylenes, Total		ND	2.0								
Surr: 4-Brom	nofluorobenzene	20		20.00		98.1	85	136			
Sample ID	100NG BTEX LCS	SampT	ype: LC	s	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID:	LCSW	Batch	n ID: <b>R1</b>	6162	F	RunNo: 1	6162				
Prep Date:		Analysis D	ate: 1	/17/2014	S	SeqNo: 4	65751	Units: µg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		211.020.00211.020.00211.020.00	0	106	80	120					
oluene			0	107	80	120					
thylbenzene			0	106	80	120					
(ylenes, Total		63	2.0	60.00	0	106	80	120			
Surr: 4-Brom	nofluorobenzene	21		20.00		104	85	136			
Sample ID	1401707-002AMS	SampT	ype: M	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID:	MW-3	Batch	n ID: <b>R1</b>	6162	F	unNo: 1	6162				
Prep Date:		Analysis D	ate: 1	/17/2014	5	SeqNo: 4	65754	Units: µg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		21	1.0	20.00	0.3788	105	73.4	119			
oluene		21	1.0	20.00	0.1814	105	80	120			
thylbenzene		21	1.0	20.00	0.3586	105	80	120			
(ylenes, Total		63	2.0	60.00	1.342	103	80	120			
Surr: 4-Brom	nofluorobenzene	21		20.00		106	85	136			
Sample ID	1401707-002AMS	SampT	ype: M	SD	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID:	MW-3	Batch	n ID: <b>R1</b>	6162	F	RunNo: 1	6162				
Prep Date:		Analysis D	ate: 1	/18/2014	S	SeqNo: 4	65755	Units: µg/L			
		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Analyte		. too all		-	0.0700	102	73.4	119	2.99	20	
		21	1.0	20.00	0.3788	102	70.4	-	2.00	=•	
Benzene			1.0 1.0	20.00 20.00	0.3788 0.1814	102	80	120	3.97	20	
Benzene oluene		21									
Analyte Benzene Foluene Ethylbenzene Kylenes, Total		21 20	1.0	20.00	0.1814	101	80	120	3.97	20	

#### **Qualifiers:**

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

Page 7 of 7

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

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

# Sample Log-In Check List

Client Name:	Animas Environmental	Work Order Number:	1401707		RcptNo:	1
Received by/dat	ie: NG	01/16/14				
Logged By:	Lindsay Mangin 🏼 🎽	1/16/2014 10:00:00 AM	Λ	Juntig Allerigo		
Completed By:	Lindsay Mangin	1/17/2014 7:37:45 AM	[	Annabia Hope		
Reviewed By:	HAR	Dally	¥		. <u></u>	
<u>Chain of Cus</u>	tody	0 0(1 / / )	/			
1. Custody sea	als intact on sample bottles?		Yes 🗌	No 🗆	Not Present 🗹	
2. Is Chain of (	Custody complete?		Yes 🗹	No 🗌	Not Present	
3. How was the	e sample delivered?		<u>Courier</u>			
Log In						
4. Was an atte	empt made to cool the sample	95?	Yes 🗹	No 🗌	NA 🗌	
5. Were all sar	mples received at a temperati	ure of >0° C to 6.0°C	Yes 🔽	No 🗌		
6. Sample(s) i	n proper container(s)?		Yes 🔽	No 🗌		
7. Sufficient sa	ample volume for indicated tes	st(s)?	Yes 🗹	No 🗌		
8. Are samples	s (except VOA and ONG) prop	perly preserved?	Yes 🗹	No 🗌		
9. Was preser	vative added to bottles?		Yes	No 🗹	NA 🗖	
10.VOA vials h	ave zero headspace?		Yes 🗹	No 🗌	No VOA Vials	
11. Were any s	ample containers received br	oken?	Yes 🗌	No 🗹 🏾	# of preserved	
				_	bottles checked	
	work match bottle labels? pancies on chain of custody)		Yes 🗹	No 🗌	for pH: (<2 o	r >12 unless noted)
•	s correctly identified on Chain	of Custody?	Yes 🗹	No 🗌	Adjusted?	
	hat analyses were requested?		Yes 🗸	No 🗌		
15. Were all hol	Iding times able to be met? customer for authorization.)		Yes 🗹	No 🗌	Checked by:	
<b>•</b> • • • •						
	dling (if applicable)					
16. Was client r	notified of all discrepancies wi	th this order?	Yes L	No 🗔		5

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			

							_	-									
Client:	Animas	s Environ	Animas Environmental Services	X Standard	🗆 Rush				A	IAL'	IS I	S S	ANALYSIS LABORATORY	RA	Ō	2	
				Project Name:					M	w.hall	envirol	nment	www.hallenvironmental.com				
Mailing ,	Mailing Address	624 E Comanche		BMG Hwy 537	537 2009 Release	se		4901 H	4901 Hawkins NE	' E Z	Albuq	nerque	- Albuquerque, NM 87109	37109			
		Farming	Farmington NM 87401	Project #:				Tel. 50	Tel. 505-345-3975	3975	Fax	505-	Fax 505-345-4107	07			
Phone #:	1.	505-564-2281		AES 090201						Ar	alysis	Analysis Request	rest				
email or Fax#:	Fax#:	505-324-2022	-	Project Manager:	jer:												
QA/QC Package:	ackage:																
X Standard	lard		Level 4 (Full Validation)		Deborah Watson	atson											
Accreditation:	ation:	i	•	<b>1</b> .	and the second second			O) (980)									ÍN
	⁴ P			On Ice: I Yes Samile Temnerature:		- IN		9 - 9									IO 1
							ļ	'င ၁)		•							) 9
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	12/017207	IS08 XƏT8	агов нат (аво, рво									Air Bubbles
4/2my 1232	1232	H₂O	MW-1	Glass 6 - 40 mL	5 - HCI † - Non	100-	×	×									
4/2014	1154	H₂O	MW-3	Glass 6 - 40 mL	5 - HCI † - Non	-02	×	×									
Havy	109	H ₂ 0	6- MM	Glass 6 - 40 mL	5 - HCI 1 - Non	-073	×	×									
1-1-201H	-	H₂O	Trip Blank	Glass 2 - 40 mL	HCI	-cOt	×										
																	Г
			(														
Date:  S  4	Time: 1 <b>5</b> 38	Relinquished by	A De la Calendaria de la C	Received by:	addalde w	Date Time 1/15/14 1938	Remarks:	arks:									
Date:	Time:		ad by:	I ≥ .	d	- -23											_
NV	104	Jur	Mrstu, Dala	MMM IC	Li ( Daraci	a 01/10/14/1000											
ł	necessary	samples subn	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.	ontracted to other ac	credited Ishoratorie	ss. This serves as notice of this	i possibi	lity. Any s	rb-contract	led data v	vill be clex	arly notat	ted on the	analytica	l report.		



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

April 14, 2014

Debbie Watson Animas Environmental Services 624 East Comanche Farmington, NM 87401 TEL: (505) 486-4071 FAX

RE: BMG Hwy 537 2009 Release

OrderNo.: 1404312

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 3 sample(s) on 4/8/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> 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 qualifers 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Date Reported: 4/14/2014

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Animas Environmental Services **Project:** BMG Hwy 537 2009 Release

1404312-001

Lab ID:

**Client Sample ID:** MW-3 Collection Date: 4/4/2014 10:20:00 AM

Received Date: 4/8/2014 10:00:00 AM

Analyses	Result	RL (	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	E				Analysi	t: JME
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	4/8/2014 11:38:51 PM	12582
Motor Oil Range Organics (MRO)	ND	5.0	mg/L	1	4/8/2014 11:38:51 PM	12582
Surr: DNOP	88.7	62.7-145	%REC	1	4/8/2014 11:38:51 PM	12582
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	t: NSB
Gasoline Range Organics (GRO)	0.20	0.050	mg/L	1	4/9/2014 7:44:19 PM	R17895
Surr: BFB	123	80.4-118	S %REC	1	4/9/2014 7:44:19 PM	R17895
EPA METHOD 8021B: VOLATILES					Analyst	t: NSB
Benzene	ND	1.0	µg/L	1	4/9/2014 7:44:19 PM	R17895
Toluene	ND	1.0	µg/L	1	4/9/2014 7:44:19 PM	R17895
Ethylbenzene	ND	1.0	µg/L	1	4/9/2014 7:44:19 PM	R17895
Xylenes, Total	ND	2.0	µg/L	1	4/9/2014 7:44:19 PM	R17895
Surr: 4-Bromofluorobenzene	106	82.9-139	%REC	1	4/9/2014 7:44:19 PM	R17895

Matrix: AQUEOUS

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associa

- Е Value above quantitation range
- J Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits S
- iated Method Blank
- Holding times for preparation or analysis exceeded Н ND
  - Not Detected at the Reporting Limit Page 1 of 6
- Р Sample pH greater than 2.
- RL Reporting Detection Limit

**Analytical Report** Lab Order 1404312 Date Reported: 4/14/2014

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Animas Environmental Services **Project:** BMG Hwy 537 2009 Release

1404312-002

Lab ID:

Client Sample ID: MW-9 Collection Date: 4/4/2014 11:10:00 AM

Received Date: 4/8/2014 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RAN	GE				Analys	JME
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	4/9/2014 12:00:44 AM	12582
Motor Oil Range Organics (MRO)	ND	5.0	mg/L	1	4/9/2014 12:00:44 AM	12582
Surr: DNOP	102	62.7-145	%REC	1	4/9/2014 12:00:44 AM	12582
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst	: NSB
Gasoline Range Organics (GRO)	0.075	0.050	mg/L	1	4/9/2014 3:12:46 PM	R17895
Surr: BFB	114	80.4-118	%REC	1	4/9/2014 3:12:46 PM	R17895
EPA METHOD 8021B: VOLATILES					Analyst	II NSB
Benzene	ND	1.0	µg/L	1	4/9/2014 3:12:46 PM	R17895
Toluene	ND	1.0	µg/L	1	4/9/2014 3:12:46 PM	R17895
Ethylbenzene	ND	1.0	µg/L	1	4/9/2014 3:12:46 PM	R17895
Xylenes, Total	ND	2.0	µg/L	1	4/9/2014 3:12:46 PM	R17895
Surr: 4-Bromofluorobenzene	103	82.9-139	%REC	1	4/9/2014 3:12:46 PM	R17895

Matrix: AQUEOUS

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	Е	Value above quantitation range
	J	Analyte detected below quantitation limits
	0	RSD is greater than RSDlimit
	R	RPD outside accepted recovery limits

- Spike Recovery outside accepted recovery limits S
- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded ND
  - Not Detected at the Reporting Limit Page 2 of 6
- Р Sample pH greater than 2.
- RL Reporting Detection Limit

**Analytical Report** Lab Order 1404312 Date Reported: 4/14/2014

CLIENT:	Animas Environmental Services		(	Client Sampl	le ID: Tri	p Blank	
<b>Project:</b>	BMG Hwy 537 2009 Release			Collection I	Date:		
Lab ID:	1404312-003	Matrix:	TRIP BLANK	<b>Received</b>	<b>Date:</b> 4/8	/2014 10:00:00 AM	
Analyses		Result	RL Qual	Units	DF	Date Analyzed	Batch
EPA MET	HOD 8021B: VOLATILES					Analys	t: NSB
Benzene		ND	1.0	µg/L	1	4/9/2014 3:42:59 PM	R17895
Toluene		ND	1.0	µg/L	1	4/9/2014 3:42:59 PM	R17895
Ethylben	zene	ND	1.0	µg/L	1	4/9/2014 3:42:59 PM	R17895
Xylenes,	Total	ND	2.0	µg/L	1	4/9/2014 3:42:59 PM	R17895
Surr: 4	4-Bromofluorobenzene	102	82.9-139	%REC	1	4/9/2014 3:42:59 PM	R17895

## Hall Environmental Analysis Laboratory, Inc.

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

Analyte detected in the associated Method Blank Holding times for preparation or analysis exceeded

Page 3 of 6

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Met
	Е	Value above quantitation range	Н	Holding times for preparation or analy
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	0	RSD is greater than RSDlimit	Р	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

WO#:	1404312
	14-Apr-14

	Environmental Service Iwy 537 2009 Release	S							
Sample ID MB-12582	SampType: MBLK		Test	Code: EF	PA Method	8015D: Diese	l Range		
Client ID: PBW	Batch ID: 12582		R	unNo: 17	7845				
Prep Date: 4/8/2014	Analysis Date: 4/8/20	14	S	eqNo: 51	4999	Units: mg/L			
Analyte	Result PQL SP	K value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND 1.0								
Motor Oil Range Organics (MRO) Surr: DNOP	ND 5.0 0.94	1.000		93.6	62.7	145			
Sample ID LCS-12582	SampType: LCS		Test	TestCode: EPA Method 8015D: Diesel Range					
Client ID: LCSW	Batch ID: 12582		R	unNo: 17	7845				
Prep Date: 4/8/2014	Analysis Date: 4/8/20	14	S	eqNo: 51	5000	Units: mg/L			
Analyte	Result PQL SP	K value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.5 1.0	5.000	0	110	78.6	146			
Surr: DNOP	0.48	0.5000		95.6	62.7	145			
Sample ID LCSD-12582	SampType: LCSD		Test	Code: EF	PA Method	8015D: Diese	l Range		
Client ID: LCSS02	Batch ID: 12582		R	unNo: 17	7845				
Prep Date: 4/8/2014	Analysis Date: 4/8/20	14	S	eqNo: 51	5143	Units: mg/L			
Analyte	Result PQL SP	K value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.7 1.0	5.000	0	113	78.6	146	3.00	26.5	
Surr: DNOP	0.48	0.5000		96.0	62.7	145	0	0	

**Qualifiers:** 

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

Page 4 of 6

WO#:	1404312
	14-Anr-14

	Environme vy 537 200									
Sample ID 5ML RB	SampT	SampType: MBLK TestCode: EPA Method 80'					8015D: Gaso	line Rang	e	
Client ID: PBW	Batch ID: R17895			RunNo: <b>17895</b>						
Prep Date:	Analysis D	Date: 4/	9/2014	S	SeqNo: 5	16157	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	20		20.00		99.7	80.4	118			
Sample ID 2.5UG GRO LCS	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSW	Batch	h ID: <b>R1</b>	7895	R	tunNo: 1	7895				
Prep Date:	Analysis D	Date: 4/	9/2014	S	SeqNo: 5	16158	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.53	0.050	0.5000	0	106	80	120			
Surr: BFB	21		20.00		105	80.4	118			

#### **Qualifiers:**

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

Client: Project:		Environme vy 537 200									
Sample ID	5ML RB	Samp	Гуре: <b>МЕ</b>	BLK	Tes	tCode: EF	PA Method	8021B: Volati	iles		
Client ID:	PBW	Batc	h ID: <b>R1</b>	7895	F	RunNo: 17	7895				
Prep Date:		Analysis E	Date: 4/	9/2014	S	SeqNo: 5	16194	Units: µg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	1.0								
Toluene		ND	1.0								
Ethylbenzene		ND	1.0								
Xylenes, Total		ND	2.0								
Surr: 4-Brom	ofluorobenzene	20		20.00		101	82.9	139			
Sample ID	100NG BTEX LCS	Samp	Гуре: <b>LC</b>	S	Tes	tCode: EF	PA Method	8021B: Volati	iles		
Client ID:	LCSW	Batc	h ID: <b>R1</b>	7895	F	RunNo: 17	7895				
Prep Date:		Analysis E	Date: 4/	9/2014	S	SeqNo: 5	16195	Units: µg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		19	1.0	20.00	0	97.1	80	120			
Toluene		19	1.0	20.00	0	94.6	80	120			
Ethylbenzene		18	1.0	20.00	0	92.0	80	120			
Xylenes, Total		57	2.0	60.00	0	95.1	80	120			
Surr: 4-Brom	ofluorobenzene	21		20.00		103	82.9	139			
Sample ID	1404312-001AMS	Samp	Гуре: <b>МS</b>	6	Tes	tCode: EF	PA Method	8021B: Volati	iles		
Client ID:	MW-3	Batc	h ID: <b>R1</b>	7895	F	RunNo: 17	7895				
Prep Date:		Analysis E	Date: 4/	9/2014	S	SeqNo: 5	16203	Units: µg/L			
Analyte											
Benzene		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
DELIZETIE		Result 20	PQL 1.0	SPK value 20.00	SPK Ref Val 0.7500	%REC 98.1	LowLimit 71	HighLimit 129	%RPD	RPDLimit	Qual
Toluene								-	%RPD	RPDLimit	Qual
Toluene Ethylbenzene		20	1.0	20.00	0.7500 0.1620 0.1560	98.1	71	129	%RPD	RPDLimit	Qual
Toluene Ethylbenzene Xylenes, Total		20 20 19 60	1.0 1.0	20.00 20.00 20.00 60.00	0.7500 0.1620	98.1 98.6	71 68.4 69.4 72.4	129 135 135 135	%RPD	RPDLimit	Qual
Toluene Ethylbenzene Xylenes, Total	ofluorobenzene	20 20 19	1.0 1.0 1.0	20.00 20.00 20.00	0.7500 0.1620 0.1560	98.1 98.6 96.5	71 68.4 69.4	129 135 135	%RPD	RPDLimit	Qual
Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom	nofluorobenzene	20 20 19 60 22	1.0 1.0 1.0	20.00 20.00 20.00 60.00 20.00	0.7500 0.1620 0.1560 0.9380	98.1 98.6 96.5 99.2 108	71 68.4 69.4 72.4 82.9	129 135 135 135		RPDLimit	Qual
Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom		20 20 19 60 22 D Samp ⁻	1.0 1.0 1.0 2.0	20.00 20.00 20.00 60.00 20.00	0.7500 0.1620 0.1560 0.9380 Tes	98.1 98.6 96.5 99.2 108	71 68.4 69.4 72.4 82.9	129 135 135 135 135 139		RPDLimit	Qual
Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Sample ID	1404312-001AMS	20 20 19 60 22 D Samp ⁻	1.0 1.0 2.0 Гуре: <b>М</b> \$ h ID: <b>R1</b>	20.00 20.00 20.00 60.00 20.00 SD 7895	0.7500 0.1620 0.1560 0.9380 Tes	98.1 98.6 96.5 99.2 108 tCode: EF	71 68.4 69.4 72.4 82.9 PA Method 7895	129 135 135 135 135 139		RPDLimit	Qual
Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Sample ID Client ID:	1404312-001AMS	20 20 19 60 22 D SampT Batcl Analysis I Result	1.0 1.0 2.0 Type: <b>MS</b> h ID: <b>R1</b> Date: <b>4/</b> PQL	20.00 20.00 60.00 20.00 5D 7895 '9/2014 SPK value	0.7500 0.1620 0.1560 0.9380 Tes F SPK Ref Val	98.1 98.6 96.5 99.2 108 tCode: <b>EF</b> RunNo: <b>1</b> SeqNo: <b>5</b> %REC	71 68.4 69.4 72.4 82.9 PA Method 7895 16204 LowLimit	129 135 135 135 139 <b>8021B: Volati</b> Units: <b>µg/L</b> HighLimit	iles %RPD	RPDLimit	Qual
Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte Benzene	1404312-001AMS	20 20 19 60 22 D Samp Batcl Analysis I Result 20	1.0 1.0 2.0 Type: MS h ID: R1 Date: 4/ PQL 1.0	20.00 20.00 60.00 20.00 5D 7895 9/2014 SPK value 20.00	0.7500 0.1620 0.1560 0.9380 Tes F SPK Ref Val 0.7500	98.1 98.6 96.5 99.2 108 tCode: <b>EF</b> RunNo: <b>1</b> SeqNo: <b>5</b> %REC 96.3	71 68.4 69.4 72.4 82.9 PA Method 7895 16204 LowLimit 71	129 135 135 135 139 <b>8021B: Volati</b> Units: <b>µg/L</b> HighLimit 129	iles %RPD 1.84	RPDLimit 20	
Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte Benzene Toluene	1404312-001AMS	20 20 19 60 22 D Samp [¬] Batcl Analysis I <u>Result</u> 20 20	1.0 1.0 2.0 Type: <b>MS</b> h ID: <b>R1</b> Date: <b>4/</b> <u>PQL</u> 1.0 1.0	20.00 20.00 60.00 20.00 5D 7895 9/2014 <u>SPK value</u> 20.00 20.00	0.7500 0.1620 0.9380 Tes F SPK Ref Val 0.7500 0.1620	98.1 98.6 96.5 99.2 108 tCode: <b>EF</b> RunNo: <b>1</b> 7 SeqNo: <b>5</b> ' %REC 96.3 97.7	71 68.4 69.4 72.4 82.9 PA Method 7895 16204 LowLimit 71 68.4	129 135 135 139 8021B: Volati Units: μg/L HighLimit 129 135	iles %RPD 1.84 0.889	RPDLimit 20 20	
Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene	1404312-001AMS	20 20 19 60 22 D Samp ^T Batcl Analysis I Result 20 20 19	1.0 1.0 2.0 Type: <b>MS</b> h ID: <b>R1</b> Date: <b>4/</b> <u>PQL</u> 1.0 1.0 1.0	20.00 20.00 60.00 20.00 5D 7895 9/2014 SPK value 20.00 20.00 20.00	0.7500 0.1620 0.1560 0.9380 Tes F SPK Ref Val 0.7500 0.1620 0.1560	98.1 98.6 96.5 99.2 108 tCode: EF RunNo: 17 SeqNo: 5 %REC 96.3 97.7 95.5	71 68.4 69.4 72.4 82.9 PA Method 7895 16204 LowLimit 71 68.4 69.4	129 135 135 139 <b>8021B: Volati</b> Units: μg/L HighLimit 129 135 135	%RPD 1.84 0.889 1.00	RPDLimit 20 20 20	
Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total	1404312-001AMS	20 20 19 60 22 D Samp [¬] Batcl Analysis I <u>Result</u> 20 20	1.0 1.0 2.0 Type: <b>MS</b> h ID: <b>R1</b> Date: <b>4/</b> <u>PQL</u> 1.0 1.0	20.00 20.00 60.00 20.00 5D 7895 9/2014 <u>SPK value</u> 20.00 20.00	0.7500 0.1620 0.9380 Tes F SPK Ref Val 0.7500 0.1620	98.1 98.6 96.5 99.2 108 tCode: <b>EF</b> RunNo: <b>1</b> 7 SeqNo: <b>5</b> ' %REC 96.3 97.7	71 68.4 69.4 72.4 82.9 PA Method 7895 16204 LowLimit 71 68.4	129 135 135 139 8021B: Volati Units: μg/L HighLimit 129 135	iles %RPD 1.84 0.889	RPDLimit 20 20	

#### **Qualifiers:**

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

Page 6 of 6

WO#: 1404312 14-Apr-14

### HALL ENVIRONMENTAL ANALYSIS LABORATORY

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:	1404312		RcptNo:	1
Received by/date:	04/08/12/				
Logged By: Lindsay Mangin	4/8/2014 10:00:00 AM		Junky Hopp		
Completed By: Lindsay, Mangin	4/8/2014 (10:18:) 1 AM		Annhu Hlean		
Reviewed By:	04/08/14		() - July		
· COTY					
Chain of Custody		<b>V</b>	No 🗆	Not Present 🗹	
1. Custody seals intact on sample bottle	287	Yes 🗌 Yes 🗹		Not Present	
2. Is Chain of Custody complete?					
3. How was the sample delivered?		<u>Courier</u>			
<u>Log In</u>					
4. Was an attempt made to cool the sa	mples?	Yes 🗸	No 🗌	NA 🗌	
5. Were all samples received at a temp	erature of >0° C to 6.0°C	Yes 🖌	No 🗌		
6. Sample(s) in proper container(s)?		Yes 🗸	No 🗌		
7. Sufficient sample volume for indicate	d 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 receive	ed broken?	Yes 🗌	No 🗹	# of preserved	
		_		bottles checked	
12.Does paperwork match bottle labels' (Note discrepancies on chain of cust		Yes 🗹	No 🗌	for pH: (<2 c	or >12 unless noted)
13 Are matrices correctly identified on C		Yes 🗹	No 🗌	Adjusted?	
14, is it clear what analyses were reques		Yes 🗹	No 🗌		
15. Were all holding times able to be me (If no, notify customer for authorization)		Yes 🗹	No 🗌	Checked by:	
Special Handling (if applicable)		_	_	_	
16. Was client notified of all discrepancie	es with this order?	Yes 🗌	No 🗌		· .
Person Notified:	Date:				
By Whom:	Via: [	eMail	Phone 🗌 Fax	In Person	
Regarding:					
Client Instructions:					_
17. Additional remarks:					
18. Cooler Information					
Cooler No Temp °C Conditi		Seal Date	Signed By		
1 2.9 Good	Yes		]		

	HALL ENVIRONMENTAL ANALYSTS LABODATODY		4901 Hawkins NE - Albuquerque, NM 87109	505-345-3975 Fax 505-345-4107	nalysis						vir Bubbles (Y										ririls serves as notice of this possibility. Any sub-contracted data will be dearly notated on the analytical report.
			4901 Haw	Tel. 505-					O) C39)	л - 6 ЯМ	тен 8015 (С (еко, рко,	)	×				 		Remarks:	-	dity. Any sub-co
	L			,						a   4-	BTEX 8021	×	×	×					Rem		s possia
	ň		ase					Watson			e Hert No	18-1	- 197	- 003					Pate Time 11/14 174/ 1 Date Time	<u>2001 - 1000</u>	ies. I the serves as multer of the
t lime:	□ Rush		37 2009 Rele	Project #:		ader:	0	Deborah Watson	Spraw		Preservative	5 - HCI 1 - Non	5 - HCI 1 - Non	HCI					Walt	the later	
I urn-Around Time:	X Standard	Project Name:	BMG Hwy 5	Project #:	AES 090201	Project Manager			Sampler: J. Sonay	Sample Tem	Container Type and #	Glass 6 - 40 mL	Glass 6 - 40 mL	Glass 2 - 40 mL					Received by: Received by:	intracted to other a	
Chain-of-Custody Record	Client: Animas Environmental Services		omanche	Farmington NM 87401	-2281	-2022		Level 4 (Full Validation)			Sample Request ID	8-WM	6-WM	Trip Blank					dby Brand	Samples submitted to Hall Environmental may be subcontracted to Induce Managina I anoradicate	
-01-01	s Environ		Mailing Address 624 E Comanche	Farming	505-564-2281	505-324-2022	1				Matrix	H₂O	H ₂ O	H₂O				Defi-the	Reinguished by:	WWA samples subm	
hain	Anima		) Addres		#:	email or Fax#:	QA/QC Package:	ndard	litation: AP	C EDD (Tvpe)	Time	1020	11 10						Time:	1758 If necessary, s	
ر ار	Client		Mailing		Phone #:	email c	QAVQC	X Standard	Accreditation:		Date	4-4-2014	H-H-2014		ļ			Dato:	4/7/14 Date:		



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

April 22, 2014

Debbie Watson Animas Environmental Services 624 East Comanche Farmington, NM 87401 TEL: (505) 486-4071 FAX

RE: BMG Hwy 537 2009 Release

OrderNo.: 1404313

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 3 sample(s) on 4/8/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> 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 qualifers 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

**Analytical Report** Lab Order 1404313 Date Reported: 4/22/2014

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Animas Environmental Services BMG Hwy 537 2009 Release **Project:** 

1404313-001

Lab ID:

**Client Sample ID:** MW-4 Collection Date: 4/4/2014 11:53:00 AM

Received Date: 4/8/2014 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	Ε				Analyst	: JME
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	4/9/2014 12:22:45 AM	12582
Motor Oil Range Organics (MRO)	ND	5.0	mg/L	1	4/9/2014 12:22:45 AM	12582
Surr: DNOP	106	62.7-145	%REC	1	4/9/2014 12:22:45 AM	12582
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	0.050	mg/L	1	4/9/2014 4:13:10 PM	R17895
Surr: BFB	106	80.4-118	%REC	1	4/9/2014 4:13:10 PM	R17895
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	1.0	µg/L	1	4/9/2014 4:13:10 PM	R17895
Toluene	ND	1.0	µg/L	1	4/9/2014 4:13:10 PM	R17895
Ethylbenzene	ND	1.0	µg/L	1	4/9/2014 4:13:10 PM	R17895
Xylenes, Total	ND	2.0	µg/L	1	4/9/2014 4:13:10 PM	R17895
Surr: 4-Bromofluorobenzene	101	82.9-139	%REC	1	4/9/2014 4:13:10 PM	R17895

Matrix: AQUEOUS

1.1.11.4 0.00 DC to th 000 1.1 • 100 1.4 1 · · · · tion.

Refer to the	QC Summary	report and	sample logi	n checklist fo	or flagged C	C data and	preservation	informatio

Qualifiers: * Value exceeds Maximum Contaminant Leve
------------------------------------------------------

- E Value above quantitation range
- J Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits S
- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded

Page 1 of 6

- ND Not Detected at the Reporting Limit
- Р Sample pH greater than 2.
- Reporting Detection Limit RL

Analytical Report Lab Order 1404313 Date Reported: 4/22/2014

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Animas Environmental Services **Project:** BMG Hwy 537 2009 Release

1404313-002

Lab ID:

Client Sample ID: MW-8 Collection Date: 4/4/2014 12:39:00 PM

Received Date: 4/8/2014 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RAN	GE				Analysi	: JME
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	4/9/2014 12:44:38 AM	12582
Motor Oil Range Organics (MRO)	ND	5.0	mg/L	1	4/9/2014 12:44:38 AM	12582
Surr: DNOP	96.9	62.7-145	%REC	1	4/9/2014 12:44:38 AM	12582
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst	: NSB
Gasoline Range Organics (GRO)	0.072	0.050	mg/L	1	4/9/2014 4:43:20 PM	R17895
Surr: BFB	112	80.4-118	%REC	1	4/9/2014 4:43:20 PM	R17895
EPA METHOD 8021B: VOLATILES					Analyst	II NSB
Benzene	ND	1.0	µg/L	1	4/9/2014 4:43:20 PM	R17895
Toluene	ND	1.0	µg/L	1	4/9/2014 4:43:20 PM	R17895
Ethylbenzene	ND	1.0	µg/L	1	4/9/2014 4:43:20 PM	R17895
Xylenes, Total	ND	2.0	µg/L	1	4/9/2014 4:43:20 PM	R17895
Surr: 4-Bromofluorobenzene	102	82.9-139	%REC	1	4/9/2014 4:43:20 PM	R17895

Matrix: AQUEOUS

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte d
	Е	Value above quantitation range	Н	Holding t
	J	Analyte detected below quantitation limits	ND	Not Detec
	0	RSD is greater than RSDlimit	Р	Sample p

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
  - D Not Detected at the Reporting Limit Page 2 of 6
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Analytical Report Lab Order 1404313 Date Reported: 4/22/2014

CLIENT: Animas Environmental Services	5	Client Sample ID: Trip Blank							
Project: BMG Hwy 537 2009 Release			Collection 1	Date:					
<b>Lab ID:</b> 1404313-003	Matrix:	TRIP BLANK	<b>Received</b>	<b>Date:</b> 4/8	/2014 10:00:00 AM				
Analyses	Result	RL Qual	Units	DF	Date Analyzed	Batch			
EPA METHOD 8021B: VOLATILES					Analyst	RAA			
Benzene	ND	1.0	µg/L	1	4/17/2014 7:47:02 PM	R18059			
Toluene	ND	1.0	µg/L	1	4/17/2014 7:47:02 PM	R18059			
Ethylbenzene	ND	1.0	µg/L	1	4/17/2014 7:47:02 PM	R18059			
Xylenes, Total	ND	2.0	µg/L	1	4/17/2014 7:47:02 PM	R18059			
Surr: 4-Bromofluorobenzene	92.5	82.9-139	%REC		4/17/2014 7:47:02 PM	R18059			

## Hall Environmental Analysis Laboratory, Inc.

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	An
	Е	Value above quantitation range	Н	Но
	J	Analyte detected below quantitation limits	ND	No
	0	RSD is greater than RSDlimit	Р	Saı

- 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

Page 3 of 6

- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

WO#:	1404313
	22-Apr-14

	Environmental Services (wy 537 2009 Release					
Sample ID MB-12582	SampType: MBLK	TestCode: EPA Method	8015D: Diesel Range			
Client ID: PBW	Batch ID: 12582	RunNo: 17845				
Prep Date: 4/8/2014	Analysis Date: 4/8/2014	SeqNo: 514999	Units: <b>mg/L</b>			
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual		
Diesel Range Organics (DRO)	ND 1.0					
Motor Oil Range Organics (MRO) Surr: DNOP	ND 5.0 0.94 1.000	93.6 62.7	145			
Sample ID LCS-12582	SampType: LCS	SampType: LCS TestCode: EPA Method 8015D: Diesel Range				
Client ID: LCSW	Batch ID: 12582	RunNo: 17845				
Prep Date: 4/8/2014	Analysis Date: 4/8/2014	SeqNo: 515000	Units: <b>mg/L</b>			
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual		
Diesel Range Organics (DRO)	5.5 1.0 5.000	0 110 78.6	146			
Surr: DNOP	0.48 0.5000	95.6 62.7	145			
Sample ID LCSD-12582	SampType: LCSD	TestCode: EPA Method	8015D: Diesel Range			
Client ID: LCSS02	Batch ID: 12582	RunNo: 17845				
Prep Date: 4/8/2014	Analysis Date: 4/8/2014	SeqNo: 515143	Units: <b>mg/L</b>			
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual		
Diesel Range Organics (DRO)	5.7 1.0 5.000	0 113 78.6	146 3.00	26.5		
Surr: DNOP	0.48 0.5000	96.0 62.7	145 0	0		

**Qualifiers:** 

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

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313

Client: Project:		Environme vy 537 200												
Sample ID	5ML RB	SampT	ype: ME	BLK	TestCode: EPA Method 8015D: Gasoline Range									
Client ID:	PBW	Batch	n ID: <b>R1</b>	7895	F	unNo: 1	7895							
Prep Date:		Analysis D	Date: 4/	9/2014	S	eqNo: 5	16157	Units: mg/L						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Gasoline Range Surr: BFB	e Organics (GRO)	ND 20	0.050	20.00		99.7	80.4	118						
Sample ID	2.5UG GRO LCS	SampT	mpType: LCS TestCode: EPA Method 8015D: Gasoline Range											
Client ID:	LCSW	Batch ID: R17895 RunNo: 17895												
Prep Date:		Analysis Date: 4/9/2014			S	eqNo: 5	16158	Units: mg/L						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
0	e Organics (GRO)	0.53	0.050	0.5000	0	106	80	120						
Surr: BFB		21		20.00		105	80.4	118						
Sample ID	5ML-RB	SampT	ype: ME	BLK	TestCode: EPA Method 8015D: Gasoline Range									
Client ID:	PBW	Batch	n ID: <b>R1</b>	8059	F	unNo: 1	8059							
Prep Date:		Analysis D	Date: 4/	17/2014	S	eqNo: 5	21745	Units: %REC	)					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Surr: BFB		16		20.00		80.1	80.4	118			S			
Sample ID	2.5UG GRO LCS	SampT	ype: LC	s	TestCode: EPA Method 8015D: Gasoline Range									
Client ID:	LCSW	Batch	n ID: <b>R1</b>	8059	F	unNo: 1	8059							
Prep Date:		Analysis D	Date: 4/	17/2014	S	eqNo: 5	21746	Units: %REC						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Surr: BFB		18		20.00		87.7	80.4	118						

#### **Qualifiers:**

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

	22-Aj	pr-14
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Client: Project:	Animas E BMG Hw													
Sample ID	5ML RB	SampT	ype: ME	BLK	Tes	tCode: El								
Client ID:	PBW	Batcl	n ID: <b>R1</b>	7895	F	RunNo: 1								
Prep Date:		Analysis D	Date: 4/	9/2014	5	SeqNo: 5	16194	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	a	ND	2.0											
Surr: 4-Brom	nofluorobenzene	20		20.00		101	82.9	139						
Sample ID	100NG BTEX LCS	SampT	ype: LC	S	TestCode: EPA Method 8021B: Volatiles									
Client ID:	LCSW	Batcl	n ID: <b>R1</b>	7895	RunNo: 17895									
Prep Date:		Analysis D	Date: 4/	9/2014	S	SeqNo: 5	16195	Units: µg/L						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene		19	1.0	20.00	0	97.1	80	120						
Toluene		19	1.0	20.00	0	94.6	80	120						
Ethylbenzene		18	1.0	20.00	0	92.0	80	120						
Xylenes, Total		57	2.0	60.00	0	95.1	80	120						
Surr: 4-Brom	nofluorobenzene	21		20.00		103	82.9	139						
Sample ID	Sample ID 5ML-RB2 SampType: MBLK TestCode: EPA Method 8021B: Volatiles													
Client ID:	PBW		n ID: <b>R1</b>		F	RunNo: 1	8059							
Client ID: Prep Date:	PBW		n ID: <b>R1</b>	8059		tunNo: <b>1</b> SeqNo: <b>5</b> 2		Units: µg/L						
	PBW	Batcl	n ID: <b>R1</b>	8059 17/2014		SeqNo: 52		Units: <b>µg/L</b> HighLimit	%RPD	RPDLimit	Qual			
Prep Date: Analyte	PBW	Batcl Analysis D	n ID: <b>R1</b> Date: <b>4</b> /	8059 17/2014	S	SeqNo: 52	21759		%RPD	RPDLimit	Qual			
Prep Date:	PBW	Batcl Analysis D Result	n ID: <b>R1</b> Date: <b>4/</b> PQL	8059 17/2014	S	SeqNo: 52	21759		%RPD	RPDLimit	Qual			
Prep Date: Analyte Benzene Toluene Ethylbenzene	PBW	Batcl Analysis D Result ND ND ND	Date: <b>4</b> / PQL 1.0 1.0 1.0	8059 17/2014	S	SeqNo: 52	21759		%RPD	RPDLimit	Qual			
Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total		Batcl Analysis D Result ND ND	Date: <b>4</b> / PQL 1.0 1.0	8059 17/2014 SPK value	S	SeqNo: 52	21759		%RPD	RPDLimit	Qual			
Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total	PBW	Batcl Analysis D Result ND ND ND	Date: <b>4</b> / PQL 1.0 1.0 1.0	8059 17/2014	S	SeqNo: 52	21759		%RPD	RPDLimit	Qual			
Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom		Batcl Analysis I Result ND ND ND ND 18	Date: <b>4</b> / PQL 1.0 1.0 1.0	8059 17/2014 SPK value 20.00	SPK Ref Val	SeqNo: 52 %REC 91.1	21759 LowLimit 82.9	HighLimit		RPDLimit	Qual			
Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom	nofluorobenzene 100NG BTEX LCS	Batcl Analysis I Result ND ND ND 18 SampT	Date: 4/ PQL 1.0 1.0 1.0 2.0	8059 17/2014 SPK value 20.00	SPK Ref Val	SeqNo: 52 %REC 91.1	21759 LowLimit 82.9 PA Method	HighLimit		RPDLimit	Qual			
Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID	nofluorobenzene 100NG BTEX LCS	Batcl Analysis I Result ND ND ND 18 SampT	PQL 1.0 1.0 2.0 	8059 17/2014 SPK value 20.00 S 8059	SPK Ref Val	6eqNo: 53 %REC 91.1 tCode: EF	21759 LowLimit 82.9 PA Method 8059	HighLimit		RPDLimit	Qual			
Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID Client ID:	nofluorobenzene 100NG BTEX LCS	Batcl Analysis I Result ND ND ND 18 Samp ¹ Batcl	PQL 1.0 1.0 2.0 	8059 17/2014 SPK value 20.00 S 8059 17/2014	SPK Ref Val	6eqNo: 5 %REC 91.1 tCode: EF tunNo: 1	21759 LowLimit 82.9 PA Method 8059	HighLimit 139 8021B: Volat		RPDLimit	Qual			
Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date:	nofluorobenzene 100NG BTEX LCS	Batcl Analysis I Result ND ND ND 18 Samp1 Batcl Analysis I	PQL 1.0 1.0 1.0 2.0 7ype: LC n ID: R1 Date: 4/	8059 17/2014 SPK value 20.00 S 8059 17/2014 SPK value 20.00	SPK Ref Val Tes F	91.1 800 - 11 91.1 800 - 11 900 - 11 900 - 11 900 - 11 900 - 11 900 - 11 900 - 11	21759 LowLimit 82.9 PA Method 8059 21760	HighLimit 139 8021B: Volat Units: µg/L	iles					
Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte Benzene Toluene	nofluorobenzene 100NG BTEX LCS	Batcl Analysis D ND ND ND 18 Samp1 Batcl Analysis D Result 20 20	Date: <b>4</b> / PQL 1.0 1.0 1.0 2.0 Type: <b>LC</b> Date: <b>4</b> / PQL 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	8059 17/2014 SPK value 20.00 S 8059 17/2014 SPK value 20.00 20.00	SPK Ref Val	91.1 91.1 tCode: EF tunNo: 11 SeqNo: 52 %REC 102 102	21759 LowLimit 82.9 PA Method 8059 21760 LowLimit 80 80 80	HighLimit 139 8021B: Volat Units: µg/L HighLimit 120 120	iles					
Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene	nofluorobenzene 100NG BTEX LCS	Batcl Analysis D ND ND ND 18 Samp1 Batcl Analysis D Result 20 20 20	Date: 4/ PQL 1.0 1.0 1.0 2.0 Type: LC Date: 4/ PQL 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	8059 17/2014 SPK value 20.00 S 8059 17/2014 SPK value 20.00 20.00 20.00	SPK Ref Val Tes F SPK Ref Val 0	91.1 91.1 tCode: <b>E</b> tunNo: <b>1</b> seqNo: <b>5</b> <u>%REC</u> 102 102 102	21759 LowLimit 82.9 PA Method 8059 21760 LowLimit 80 80 80 80	HighLimit 139 8021B: Volat Units: μg/L HighLimit 120 120 120	iles					
Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total	nofluorobenzene 100NG BTEX LCS	Batcl Analysis D ND ND ND 18 Samp1 Batcl Analysis D Result 20 20	Date: <b>4</b> / PQL 1.0 1.0 1.0 2.0 Type: <b>LC</b> Date: <b>4</b> / PQL 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	8059 17/2014 SPK value 20.00 S 8059 17/2014 SPK value 20.00 20.00	SPK Ref Val	91.1 91.1 tCode: EF tunNo: 11 SeqNo: 52 %REC 102 102	21759 LowLimit 82.9 PA Method 8059 21760 LowLimit 80 80 80	HighLimit 139 8021B: Volat Units: µg/L HighLimit 120 120	iles					

#### **Qualifiers:**

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

Page 6 of 6

Client Name: Animas Environmental Work Order Numb	er: 1404313		RcptNo: 1	
eceived by/date:				
ogged By: Lindsay Mangin 4/8/2014 10:00:00 A	M	Junky Margo		
Completed By: Lindsay Mangin 4/8/2014 10:21:59 A	M	June Hope		
leviewed By: 04 08 14	Γ			
nain of Custody	•			
1. Custody seals intact on sample bottles?	Yes	No 🗌	Not Present 🗹	
. Is Chain of Custody complete?	Yes 🗹	No 🗔	Not Present	
How was the sample delivered?	<u>Courier</u>			
og In				
4. Was an attempt made to cool the samples?	Yes 🗹	No 🗌	NA 🗌	
. Were all samples received at a temperature of $>0^{\circ}$ C to $6.0^{\circ}$ C	Yes 🔽	No 🗌		
S. Sample(s) in proper container(s)?	Yes 🔽	No 🗌		
7. Sufficient sample volume for indicated test(s)?	Yes 🗹	No 🗌		
Are samples (except VOA and ONG) properly preserved?	Yes 🗹	No 🗌		
Was preservative added to bottles?	Yes	No 🗹	NA 🗌	
).VOA vials have zero headspace?	Yes 🗹	No 🗍	No VOA Vials	
1. Were any sample containers received broken?	Yes 🗌	No 🔽	# of preserved bottles checked	
2. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🔽	No 🗌	for pH: (<2 or >12 unless	noted
3. Are matrices correctly identified on Chain of Custody?	Yes 🗹	No 🗆	Adjusted?	
1. Is it clear what analyses were requested?	Yes 🗹	No 🗌		
5. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🔽	Νο	Checked by:	
pec <u>ial Handling (if applicable)</u>				
16. Was client notified of all discrepancies with this order?	Yes 🗌	No 🗌	NA 🗹	
Person Notified: Date	ə: <b>[</b>	,		
By Whom: Via:	eMail	Phone 🗌 Fax	In Person	
Regarding:				
Client Instructions:				
7. Additional remarks:	_			
8. Cooler Information				

		www.hallenvironmental.com	₹	Tel. 505-345-3975 Fax 505-345-4107	Analysis Kequest				ТЕХ 8021 PH 8015 (С6 PH 8015 (С6 PH 8015 (С6 PH 8015 (У 6 PH 8015 (У 6 PH 8021	ж Т							Remarks:	Q	accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical servet
X Standard D Rush	iei iei	BMG Hww 637 2000 Dollard	Project #:	AES 090201	Project Manager		sran w	Onice Jarkes Dino	Container Preservative HEAL No Type and # Type 12 E	Glass 5 - HCI - 00		Glass HCI – $(33)$					Received by: Received by: Date Time		
Animas Environmental Services		omanche	37401		-2022	evel 4 (Eull Validation)			Sample Request ID	MW-4	MW-8	Trip Blank					Soft 1	the Weller	
nimas Enviroi		Mailing Address 624 E Comanche	Farming	505-564-2281	ax#: 505-324-2022	skage: d	ion: Dether		Time Matrix	153 H20	[239] H2O	H ₂ O				Relinguished by:		SS LYMLT	2
CIICLIF. A	I	Mailing Ac		Phone #;	email or Fax#:	QA/QC Package: X Standard	Accreditation:		Date	4-4-2014 119	-1-4-2014 12				-	Date: Time:		STIP II TI	

 $\geq$