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09 / 07 / 2012

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September 7, 2012

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

Re: Periodic Progress Report
Benson-Montin-Greer
Highway 537 Truck Receiving Station 2009 Oil Release
Rio Arriba County, New Mexico

Dear Mr. von Gonten:

On behalf of Benson-Montin-Greer Drilling Corporation (BMG), Animas Environmental Services, LLC (AES) has prepared this Periodic Progress Report, which provides details of groundwater monitoring and sampling conducted in May 2012 at the BMG Highway 537 Truck Receiving Station 2009 release location. Sampling was conducted in accordance with recommendations presented in the Site Investigation Report prepared by AES and submitted on April 10, 2009.

1.0 Site Information

1.1 Site Location

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.

The truck receiving station is located along the south side of New Mexico 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 SW¼ NW¼ Section 18, T25N, R3W in Rio Arriba County, New Mexico. Latitude and longitude were recorded as being N36.39866 and W107.19328. A topographic site location map, based on an excerpt from the United States 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 site plan, including existing monitor wells, is presented as Figure 2.

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, and immediately contacted BMG. BMG personnel arrived on-site later in the morning 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, 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 around the buried 6-inch line measuring 10 feet by 20 feet by 15 feet in depth. 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.

Following a thorough inspection of the buried 6-inch line, BMG personnel discovered a small external corrosion hole, measuring approximately 1/8 inch in diameter, 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 excavating additional soils in order to determine the extent of the release would be difficult and 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 – May 2012

The second quarterly groundwater and sampling event of 2012 was conducted by AES personnel on May 24, 2012. Groundwater samples from MW-1, 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 Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico. No samples were collected from MW-2, MW-5 through MW-7, MW-10, and MW-11 because these wells have remained below laboratory detection limits for BTEX and TPH for eight consecutive sampling events.

2.1 Groundwater Measurements and Water Quality Data

During the May 2012 sampling event, groundwater measurements were recorded for MW-1 through MW-11. Average groundwater elevations decreased across the site by an average of 0.01 feet since the February 2012 sampling event. Groundwater gradient was calculated between MW-2 and MW-9, with a magnitude of 0.007 ft/ft to the southwest. Groundwater elevations ranged from 14.92 feet below top of casing (TOC) in MW-6 to 30.06 feet below TOC in MW-11. Groundwater elevation data and contours are presented in Figure 3.

Groundwater quality measurements were recorded for MW-1, MW-3, MW-4, MW-8 and MW-9. Recorded temperatures ranged from 12.94°C in MW-1 to 13.75°C in MW-4. Groundwater pH measurements ranged from 6.93 to 7.08, and DO concentrations were between 0.65 mg/L in MW-8 and 1.04 mg/L in MW-1 and MW-4. ORP measurements were between -70.3 mV in MW-3 and 39.3 mV in MW-4, and conductivity readings were between 4.325 mS/cm and 4.687 mS/cm. Depth to groundwater measurements and water quality data are presented in Table 1. Water Sample Collection Forms are included as Appendix A.

2.2 Groundwater Analytical Results

Dissolved phase benzene concentrations above the applicable Water Quality Control Commission (WQCC) standard of 10 µg/L continue to be reported in MW-1 (210 µg/L) and MW-3 (50 µg/L). Dissolved phase benzene concentration has dropped below the applicable

WQCC standard of 10 µg/L in MW-9 with 3.8 µg/L. Benzene concentrations were below laboratory detection limits or the WQCC standard in the remaining sampled wells. Toluene, ethylbenzene, and xylene concentrations were below applicable WQCC standards in each of the wells sampled.

GRO concentrations reported above laboratory detection limits were reported in MW-1 (0.59 mg/L), MW-3 (0.33 mg/L), MW-8 (0.12 mg/L), and MW-9 (0.076 mg/L). GRO concentrations in MW-4 continue to remain below the laboratory detection limit. DRO and MRO concentrations 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 dissolved phase benzene contours are presented in Figure 5. Graphs 1 through 4 present groundwater elevations and dissolved phase benzene concentrations for MW-1, MW-3, MW-8, and MW-9, respectively. Laboratory analytical reports for May 2012 are included in Appendix A.

3.0 Conclusions and Recommendations

AES conducted groundwater monitoring and sampling at the BMG Highway 537 Truck Receiving Station on May 24, 2012. Samples were collected from monitor wells MW-1, MW-3, MW-4, MW-8, and MW-9. Monitor wells MW-2, MW-5 through MW-7, MW-10, and MW-11 have remained below the WQCC standards for BTEX and below laboratory detection limits for TPH for eight consecutive sampling events and therefore were not sampled during the May 2012 sampling event.

Benzene concentrations have fluctuated within MW-1, MW-3, MW-8, and MW-9 since well installation in 2009. Benzene concentrations have decreased in MW-1 and MW-9, and rebounded in MW-3 to August and November 2011 levels. Benzene concentrations continue to remain below the laboratory detection limits in MW-4 and MW-8. Toluene, ethylbenzene, and xylenes have remained below the applicable WQCC standards in all wells. GRO concentrations above the laboratory detection limit were reported in MW-1, MW-3, MW-8, and MW-9 with the highest concentration of 0.59 mg/L reported in MW-1. DRO and MRO concentrations were reported below the laboratory detection limits in all wells during the May 2012 sampling event.

Based on laboratory analytical results, AES recommends continuing groundwater monitoring and sampling of monitor wells for MW-1, MW-3, MW-8, and MW-9 on a quarterly basis through the end of 2012. Sampling of MW-4 can be suspended given that dissolved phase benzene concentrations have remained below applicable WQCC standards for eight consecutive sampling events.

4.0 Scheduled Site Activities

The next groundwater sampling event has tentatively been scheduled for September 2012. Samples collected from monitor wells MW-1, MW-3, MW-8, and MW-9 will be laboratory analyzed for BTEX per USEPA Method 8021 and TPH per USEPA Method 8015.

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

Sincerely,

Heather Woods
Staff Geologist

Elizabeth McNally, P.E.

Tables

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Table 2. Summary of Groundwater Analytical Results

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Graphs

Graph 1. MW-1 Groundwater Elevations and Benzene Concentrations, May 2012
Graph 2. MW-3 Groundwater Elevations and Benzene Concentrations, May 2012
Graph 3. MW-8 Groundwater Elevations and Benzene Concentrations, May 2012
Graph 4. MW-9 Groundwater Elevations and Benzene Concentrations, May 2012

Appendices

Appendix A. Water Sample Collection Forms, May 2012
Hall Analytical Reports, 1205B05

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TABLE 1
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)	pH	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-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
MW-2	24-May-12	29.47	7064.65	7035.18	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

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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-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-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
MW-5	21-Feb-12	29.96	7064.79	7034.83	NM	NM	NM	NM	NM

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MW-5	25-May-12	29.96	7064.79	7034.83	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-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-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

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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
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-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-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

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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)	pH	ORP (mV)
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-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
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
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

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total 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 WQCC		***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**	1.1	48	170	4.8	<1.0	<5.0
MW-1	15-Jan-10	**630**	<5.0	19	47	2.1	<1.0	<5.0
MW-1	15-Oct-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	19	<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-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
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

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total 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 WQCC		***10***	***750***	***750***	***620***	***NE***	***NE***	***NE***
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-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
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
MW-6	16-Nov-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
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

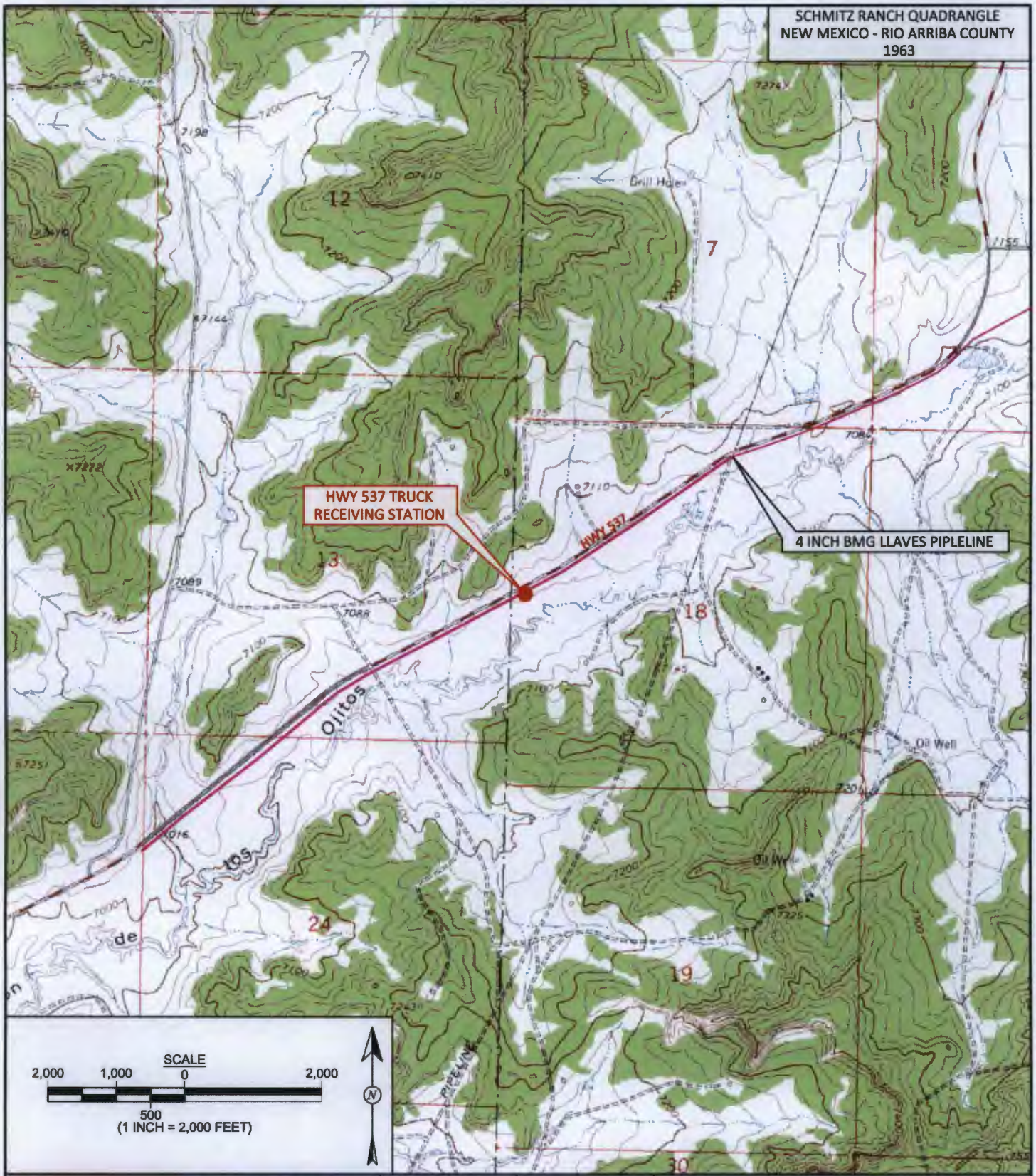
TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total 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 WQCC		***10***	***750***	***750***	***620***	***NE***	***NE***	***NE***
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-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
MW-9	24-May-12	3.8	<1.0	1.4	<2.0	0.076	<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

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total 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 WQCC		***10***	***750***	***750***	***620***	***NE***	***NE***	***NE***
Downgradient MW-7*	09-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0

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



DRAWN BY: N. Willis	**DATE DRAWN:** April 4, 2011	**FIGURE 1**
REVISIONS BY: C. Lameman	**DATE REVISED:** April 19, 2012	**TOPOGRAPHIC SITE LOCATION MAP**
CHECKED BY: H. Woods	**DATE CHECKED:** June 14, 2012	BENSON-MONTIN-GREER LLAVES PIPELINE HWY. 537 TRUCK RECEIVING STATION 2009 RELEASE SW ¼, SW ¼, NW ¼ SEC. 18, T25N, R3W RIO ARRIBA COUNTY, NEW MEXICO N36.39866, W107.19328
APPROVED BY: E. McNally	**DATE APPROVED:** June 14, 2012	

AES
Animas Environmental Services, LLC

FIGURE 2

GENERAL SITE PLAN
BENSON-MONTIN-GREER
LLAVES PIPELINE HWY. 537
TRUCK RECEIVING STATION 2009 RELEASE
SW ¼, SW ¼, NW ¼ SEC. 18, T25N, R3W
RIO ARRIBA COUNTY, NEW MEXICO
N36.39866, W107.19328

Animas Environmental Services, LLC

DRAWN BY:	DATE DRAWN:
R. Kennemer	March 16, 2009
REVISIONS BY:	**DATE REVISED:**
N. Willis	June 1, 2012
CHECKED BY:	**DATE CHECKED:**
H. Woods	June 14, 2012
APPROVED BY:	**DATE APPROVED:**
E. McNally	June 14, 2012

LEGEND

MONITORING WELL INSTALLED FEBRUARY 2009

AERIAL SOURCE: (C) GOOGLE EARTH 2010

SCALE
40 20 0 40
10
(1 INCH = 40 FEET)

STATE HWY. 537
CATTLE GUARD
GATE
4" DIA. BURIED PIPE
PIPELINE INLET
9
10
SOIL BERM
6" DIA. ABOVE GRADE PIPE
4" BURIED PIPE
LLAVES PIPELINE
SOIL BERM
MW-5
8
7
6
4
5
3
2
1
METER SKID/PUMPS
MW-2
MW-11
MW-1
PUMPS
LOCATION OF ⅛" CORROSION HOLE, DISCOVERED ON 01/30/09
CATTLE GUARD
GATE
4" DIA. BURIED PIPE
MW-4
MW-10
TRUCK LOADING STATION
MW-3
FENCE
MW-8
MW-7
MW-9
POND
MW-6

FIGURE 3

GROUNDWATER ELEVATION CONTOURS, MAY 2012
BENSON-MONTIN-GREER
LLAVES PIPELINE HWY. 537
TRUCK RECEIVING STATION 2009 RELEASE
SW ¼, SW ¼, NW ¼ SEC. 18, T25N, R3W
RIO ARRIBA COUNTY, NEW MEXICO
N36.39866, W107.19328

Animas Environmental Services, LLC

DRAWN BY:	DATE DRAWN:
R. Kennemer	March 16, 2009
REVISIONS BY:	**DATE REVISED:**
N. Willis	June 1, 2012
CHECKED BY:	**DATE CHECKED:**
H. Woods	June 14, 2012
APPROVED BY:	**DATE APPROVED:**
E. McNally	June 14, 2012

LEGEND

- MONITOR WELL LOCATIONS (INSTALLED FEBRUARY 2009)
- FENCE
- PONDS, WET LANDS, & FLOOD PLANES
- 7034.89 GROUNDWATER ELEVATION IN FEET (A.M.S.L.)
- —7034.6— GROUNDWATER ELEVATION CONTOUR IN FEET (A.M.S.L.)

NOTE: ALL GROUNDWATER ELEVATION MEASUREMENTS WERE MADE ON MAY 24, 2012.

SCALE
40 20 0 40
10
(1 INCH = 40 FEET)

STATE HWY. 537
CATTLE GUARD
GATE
SOIL BERM
9
10
SOIL BERM
MW-5 7034.83
8
7
6
4
5
3
2
1
METER SKID/PUMPS
MW-2 7035.18
GROUNDWATER GRADIENT BETWEEN MW-2 AND MW-8 IS 0.007 FT/FT
MW-11 7034.04
MW-1 7034.89
PUMPS
CATTLE GUARD
GATE
FENCE
MW-4 7034.49
MW-10 7035.12
MW-3 7034.92
MW-8 7033.93
MW-7 7034.46
MW-9 7033.21
POND
MW-6 7034.62
7035.0
7034.8
7034.6
7034.4
7034.2
7034.0
7033.8
7033.6
7033.4

FIGURE 4

GROUNDWATER CONTAMINANT CONCENTRATIONS, MAY 2012

BENSON-MONTIN-GREER

TRUCK RECEIVING STATION 2009 RELEASE
SW ¼, SW ¼, NW ¼ SEC. 18, T25N, R3W
RIO ARRIBA COUNTY, NEW MEXICO
N36.39866, W107.19328

Animas Environmental Services, LLC

DRAWN BY:	DATE DRAWN:
R. Kennemer	March 16, 2009
REVISIONS BY:	**DATE REVISED:**
C. Lameman	June 19, 2012
CHECKED BY:	**DATE CHECKED:**
H. Woods	June 14, 2012
APPROVED BY:	**DATE APPROVED:**
E. McNally	June 14, 2012

LEGEND

- MONITOR WELL LOCATIONS (INSTALLED FEBRUARY 2009)
- FENCE
- PONDS, WET LANDS, & FLOOD PLANES

B	BENZENE
T	TOLUENE
E	ETHYLBENZENE
X	XYLENES
GRO	GASOLINE RANGED ORGANICS
DRO	DIESEL RANGED ORGANICS
MRO	MOTOR OIL RANGED ORGANICS
µg/L	MICROGRAMS PER LITER (PPB)
<	ANALYTE NOT DETECTED ABOVE LISTED METHOD LIMIT

NOTE: ALL SAMPLES COLLECTED ON MAY 24, 2012, AND ANALYZED PER EPA METHOD 8021B AND 8015B.

SCALE
40 20 0 40
10
(1 INCH = 40 FEET)

STATE HWY. 537
CATTLE GUARD
GATE
FENCE
SOIL BERM
METER SKID/PUMPS
PUMPS
POND
9
10
1
2
3
4
5
6
7
8

MW-1
B = 210 µg/L
T = 2.1 µg/L
E = 31 µg/L
X = 5.1 µg/L
GRO = 0.59 µg/L
DRO = <1.0 µg/L
MRO = <5.0 µg/L

MW-2 NOT SAMPLED

MW-3
B = 50 µg/L
T = <1.0 µg/L
E = 3.0 µg/L
X = <2.0 µg/L
GRO = 0.33 µg/L
DRO = <1.0 µg/L
MRO = <5.0 µg/L

MW-4
B = <1.0 µg/L
T = <1.0 µg/L
E = <1.0 µg/L
X = <2.0 µg/L
GRO = <0.050 µg/L
DRO = <1.0 µg/L
MRO = <5.0 µg/L

MW-5 NOT SAMPLED

MW-6 NOT SAMPLED

MW-7 NOT SAMPLED

MW-8
B = <1.0 µg/L
T = <1.0 µg/L
E = <1.0 µg/L
X = <2.0 µg/L
GRO = 0.12 µg/L
DRO = <1.0 µg/L
MRO = <5.0 µg/L

MW-9
B = 3.8 µg/L
T = <1.0 µg/L
E = 1.4 µg/L
X = <2.0 µg/L
GRO = 0.076 µg/L
DRO = <1.0 µg/L
MRO = <5.0 µg/L

MW-10 NOT SAMPLED

MW-11 NOT SAMPLED

FIGURE 5

DISSOLVED BENZENE CONCENTRATION CONTOURS MAY 2012

BENSON-MONTIN-GREER
LLAVES PIPELINE HWY. 537
TRUCK RECEIVING STATION 2009 RELEASE
SW ¼, SW ¼, NW ¼ SEC. 18, T25N, R3W
RIO ARRIBA COUNTY, NEW MEXICO
N36.39866, W107.19328

Animas Environmental Services, LLC

DRAWN BY:	DATE DRAWN:
R. Kennemer	March 16, 2009
REVISIONS BY:	**DATE REVISED:**
C. Lameman	June 19, 2012
CHECKED BY:	**DATE CHECKED:**
H. Woods	June 19, 2012
APPROVED BY:	**DATE APPROVED:**
E. McNally	June 19, 2012

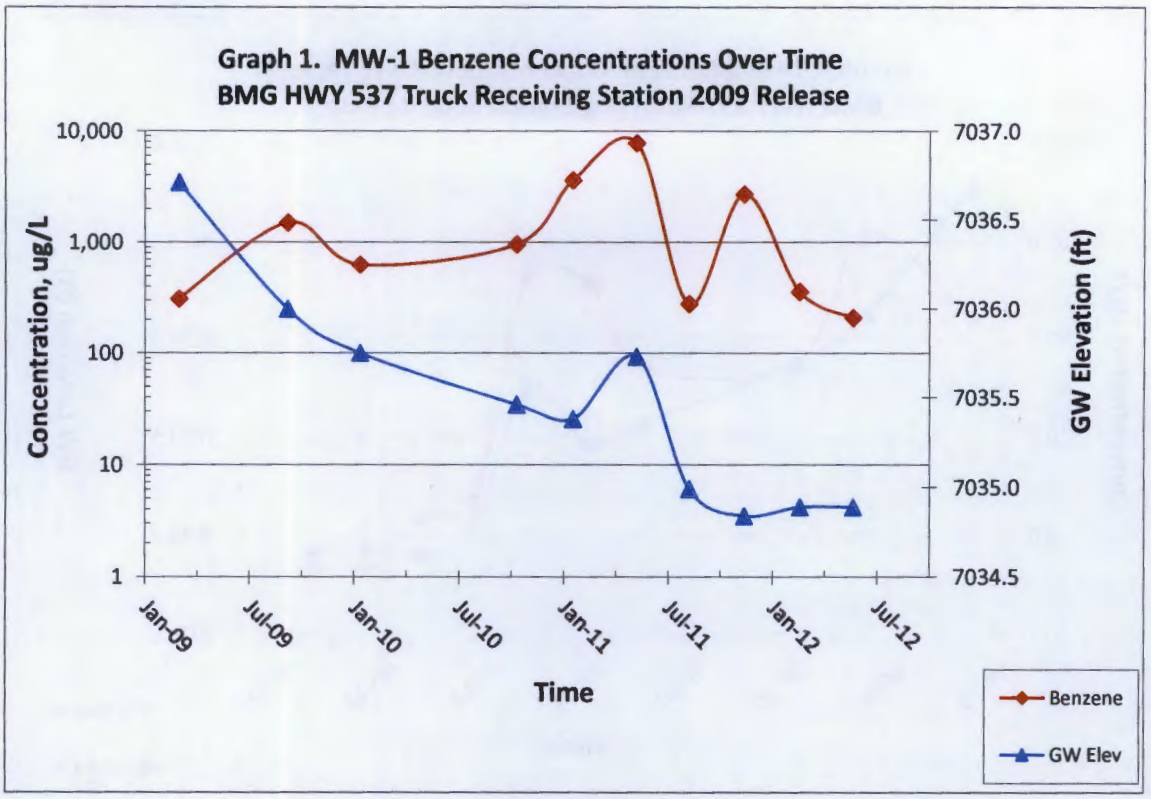
LEGEND

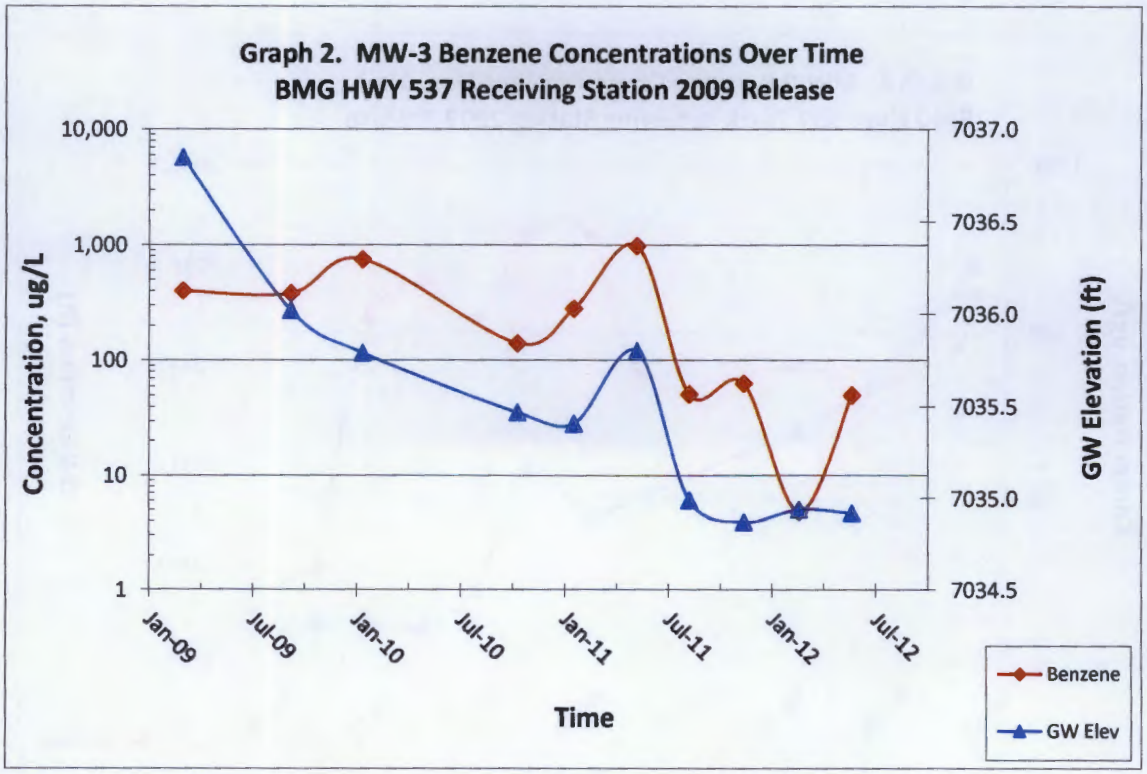
- MONITOR WELL LOCATIONS (INSTALLED FEBRUARY 2009)
- FENCE
- PONDS, WET LANDS, & FLOOD PLANES
- 210 — DISSOLVED BENZENE CONCENTRATION IN µg/L
- 50 — DISSOLVED BENZENE CONCENTRATION CONTOURS µg/L

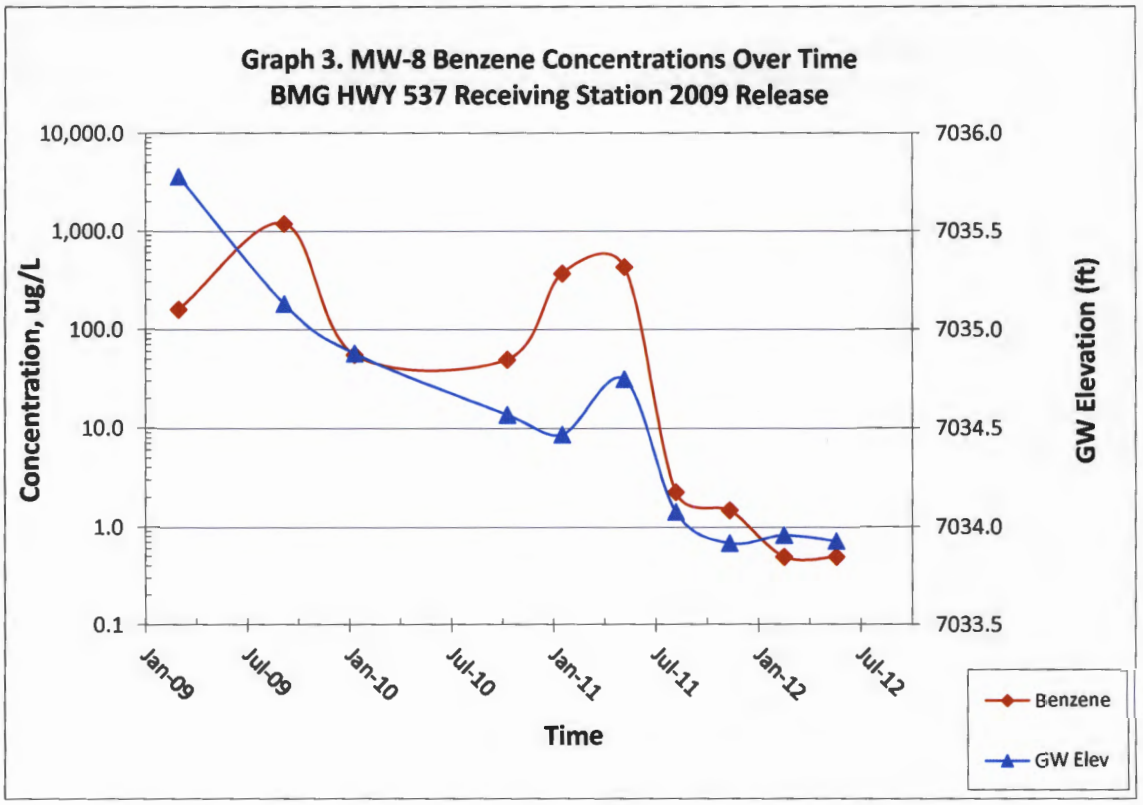
NOTE: ALL SAMPLES COLLECTED ON MAY 24, 2012, AND ANALYZED PER EPA METHOD 8021B AND 8015B.

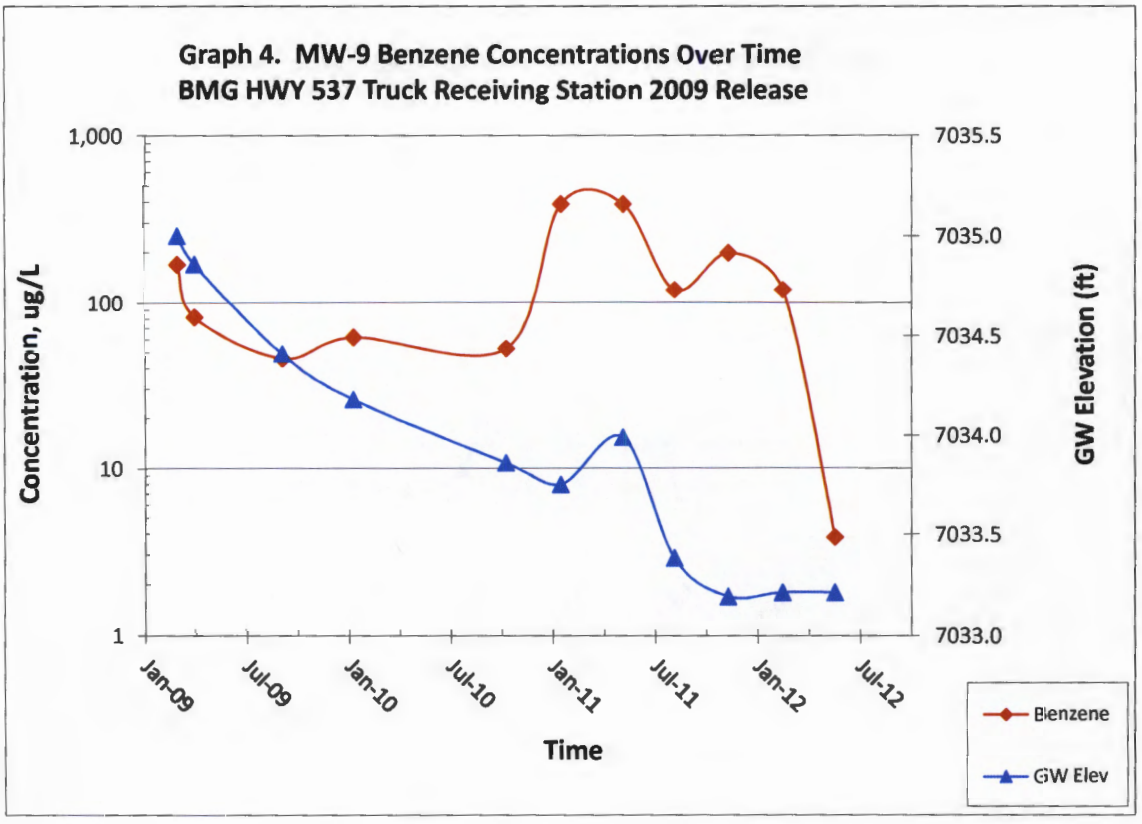
SCALE
40 20 0 40
10
(1 INCH = 40 FEET)

STATE HWY. 537
CATTLE GUARD
GATE
SOIL BERM
METER SKID/PUMPS
PUMPS
FENCE
POND
MW-1 210
MW-2 NS
MW-3 50
MW-4 <1.0
MW-5 NS
MW-6 NS
MW-7 NS
MW-8 <1.0
MW-9 3.8
MW-10 NS
MW-11 NS
100
50
10
5
1
2
3
4
5
6
7
8
9
10


Graph 1. MW-1 Benzene Concentrations Over Time
BMG HWY 537 Truck Receiving Station 2009 Release
Concentration, ug/L
10,000
1,000
100
10
1
GW Elevation (ft)
7037.0
7036.5
7036.0
7035.5
7035.0
7034.5
Jan-09
Jul-09
Jan-10
Jul-10
Jan-11
Jul-11
Jan-12
Jul-12
Time
Benzene
GW Elev


Graph 2. MW-3 Benzene Concentrations Over Time
BMG HWY 537 Receiving Station 2009 Release
Concentration, ug/L
10,000
1,000
100
10
1
GW Elevation (ft)
7037.0
7036.5
7036.0
7035.5
7035.0
7034.5
Jan-09
Jul-09
Jan-10
Jul-10
Jan-11
Jul-11
Jan-12
Jul-12
Time
Benzene
GW Elev


Graph 3. MW-8 Benzene Concentrations Over Time
BMG HWY 537 Receiving Station 2009 Release
10,000.0
1,000.0
100.0
10.0
1.0
0.1
Concentration, ug/L
7036.0
7035.5
7035.0
7034.5
7034.0
7033.5
GW Elevation (ft)
Jan-09
Jul-09
Jan-10
Jul-10
Jan-11
Jul-11
Jan-12
Jul-12
Time
Benzene
GW Elev


Graph 4. MW-9 Benzene Concentrations Over Time
BMG HWY 537 Truck Receiving Station 2009 Release
1,000
100
10
1
Concentration, ug/L
7035.5
7035.0
7034.5
7034.0
7033.5
7033.0
GW Elevation (ft)
Jan-09
Jul-09
Jan-10
Jul-10
Jan-11
Jul-11
Jan-12
Jul-12
Time
Benzene
GW Elev

DEPTH TO GROUNDWATER MEASUREMENT FORM

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

Project: Groundwater Monitoring
Site: Hwy 537 Truck Station Spill 2009
Location: Rio Arriba County, New Mexico
Tech: N. Willis

Project No.: AES 090201
Date: 5/24/12
Time: 1333
Form: 1 of 1

Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
MW-1	1646	—	29.77	—	
MW-2	1439	—	29.47	—	
MW-3	1614	—	29.09	—	
MW-4	1541	—	29.23	—	
MW-5	1441	—	29.96	—	
MW-6	1340	—	14.92	—	
MW-7	1435	—	28.34	—	
MW-8	1507	—	29.34	—	
MW-9	1345	—	29.39	—	
MW-10	1437	—	28.15	—	
MW-11	1443	—	30.06	—	

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

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-1

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

Site: Highway 537 Truck Station Spill 2009 **Project No.:** AES 090201
Location: Rio Arriba County, New Mexico **Date:** 5/24/12
Project: Groundwater Monitoring and Sampling **Arrival Time:** 1644
Sampling Technician: N. Wills **Air Temp:** 80°F
Purge / No Purge: Purge **T.O.C. Elev. (ft):** 7064.66
Well Diameter (in): 2 **Total Well Depth (ft):** 43.65
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 29.77 **Time:** 1646 *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (~~mS~~)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1652	13.73	4.171	1.21	6.90	-78.8	0.25 gal.	
1654	13.30	3.587	1.00	6.72	-96.4	0.75	
1657	12.99	4.269	0.96	6.81	-84.2	1	
1659	12.99	4.425	0.95	6.86	-74.4	1	
1701	12.82	4.458	1.11	6.87	-66.1	1	
1704	12.91	4.424	1.04	6.87	-60.9	1	
1706	12.73	4.520	0.87	6.90	-53.9	1	
1708	12.94	4.563	1.04	6.95	-46.5	1	
1713	~	~	~	~	~	~	Samples Collected

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

BTEX per EPA Method 8021 (3 40mL Vials w/ HCl preserve)
TPH C6-C36 per EPA Method 8015B (2 40mL Vials w/ HCl preserve)
TPH C6-C36 per EPA Method 8015B (40mL Vial w/ no preservative)

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-3

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

Site: Highway 537 Truck Station Spill 2009 | **Project No.:** AES 090201
Location: Rio Arriba County, New Mexico | **Date:** 5/24/12
Project: Groundwater Monitoring and Sampling | **Arrival Time:** 1612
Sampling Technician: N. Wills | **Air Temp:** 80°F
Purge / No Purge: Purge | **T.O.C. Elev. (ft):** 7064.01
Well Diameter (in): 2 | **Total Well Depth (ft):** 41.1
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 29.09 **Time:** 1614 *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1619	14.88	4.331	0.61	7.13	-96.6	0.25 gal.	
1622	14.02	4.290	0.75	7.07	-102.6	1	
1626	13.35	4.320	1.06	7.08	-96.3	1	
1628	13.18	4.325	0.97	7.07	-84.7	1	
1631	13.32	4.320	0.64	7.07	-81.6	1	
1634	13.47	4.311	0.63	7.06	-76.5	1	
1637	13.30	4.325	0.81	7.07	-70.3	1	
1642							Samples Collected

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

BTEX per EPA Method 8021 (3 40mL Vials w/ HCl preserve)
TPH C6-C36 per EPA Method 8015B (2 40mL Vials w/ HCl preserve)
TPH C6-C36 per EPA Method 8015B (40mL Vial w/ no preservative)

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

MONITORING WELL SAMPLING RECORD

Monitor Well No: **MW-4**

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

Site: Highway 537 Truck Station Spill 2009 | Project No.: AES 090201
Location: Rio Arriba County, New Mexico | Date: 5/23/12
Project: Groundwater Monitoring and Sampling | Arrival Time: 1539
Sampling Technician: N. Willis | Air Temp: 80°F
Purge / No Purge: Purge | T.O.C. Elev. (ft): 7063.72
Well Diameter (in): 2 | Total Well Depth (ft): 44
Initial D.T.W. (ft): ____ Time: ____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 29.23 Time: 1541 *(taken prior to purging well)*
Final D.T.W. (ft): ____ Time: ____ *(taken after sample collection)*
If NAPL Present: D.T.P.: ____ D.T.W.: ____ Thickness: ____ Time: ____

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH (7.09)	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1546	14.99	4.718	1.16	~~7.59~~	22.9	0.25 gal.	
1549	14.07	4.683	0.90	7.00	28.4	1	
1552	13.84	4.699	0.81	6.98	31.1	1	
1555	13.64	4.684	0.67	7.00	32.4	1	
1557	13.35	4.692	0.92	6.98	31.2	1	
1600	13.80	4.688	0.88	7.00	34.5	1	
1602	13.88	4.692	0.88	6.98	37.0	1	
1605	13.75	4.687	1.04	6.98	39.3	1	
1610							Samples Collected

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

BTEX per EPA Method 8021 (3 40mL Vials w/ HCl preserve)
TPH C6-C36 per EPA Method 8015B (2 40mL Vials w/ HCl preserve)
TPH C6-C36 per EPA Method 8015B (40mL Vial w/ no preservative)

Disposal of Purged Water: ____
Collected Samples Stored on Ice in Cooler: ____
Chain of Custody Record Complete: ____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

MONITORING WELL SAMPLING RECORD

Monitor Well No: **MW-8**

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

Site: Highway 537 Truck Station Spill 2009 | Project No.: AES 090201
Location: Rio Arriba County, New Mexico | Date: 5/24/12
Project: Groundwater Monitoring and Sampling | Arrival Time: 1505
Sampling Technician: N. Wills | Air Temp: 78°F
Purge / No Purge: Purge | T.O.C. Elev. (ft): 7063.27
Well Diameter (in): 2 | Total Well Depth (ft): 44.1
Initial D.T.W. (ft): ____ Time: ____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 29.34 Time: 1507 *(taken prior to purging well)*
Final D.T.W. (ft): ____ Time: ____ *(taken after sample collection)*
If NAPL Present: D.T.P.: ____ D.T.W.: ____ Thickness: ____ Time: ____

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1510	18.42	4.516	0.68	6.95	-68.5	0.25 gal.	
1515	15.01	4.199	0.80	6.92	-97.5	1	
1518	14.22	4.300	0.70	6.92	-88.5	1	
1521	13.90	4.359	0.55	6.94	-77.2	1	
1524	13.81	4.370	0.75	6.92	-59.7	1	
1527	13.69	4.377	0.75	6.94	-49.9	1	
1529	13.58	4.271	0.87	6.93	-58.0	1	
1532	13.43	4.402	0.65	6.93	-41.2	1	
1537							Samples Collected

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

BTEX per EPA Method 8021 (3 40mL Vials w/ HCl preserve)
TPH C6-C36 per EPA Method 8015B (2 40mL Vials w/ HCl preserve)
TPH C6-C36 per EPA Method 8015B (40mL Vial w/ no preservative)

Disposal of Purged Water: ____
Collected Samples Stored on Ice in Cooler: ____
Chain of Custody Record Complete: ____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: **MW-9**	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: Highway 537 Truck Station Spill 2009 — Project No.: AES 090201
Location: Rio Arriba County, New Mexico — Date: 5/24/12
Project: Groundwater Monitoring and Sampling — Arrival Time: 1344
Sampling Technician: N. Willis — Air Temp: 78°F
Purge / No Purge: Purge — T.O.C. Elev. (ft): 7062.6
Well Diameter (in): 2 — Total Well Depth (ft): 39.15
Initial D.T.W. (ft): ____ Time: ____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 29.39 Time: 1345 *(taken prior to purging well)*
Final D.T.W. (ft): ____ Time: ____ *(taken after sample collection)*
If NAPL Present: D.T.P.:____ D.T.W.:____ Thickness:____ Time:____

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1357	14.64	4.329	1.35	7.15	-66.8	0.25 gal.	
1400	14.52	4.284	1.06	7.07	-68.8	0.25	
1403	14.13	4.356	0.85	7.05	-66.4	0.75	
1406	13.54	4.399	1.03	7.11	-69.7	0.75	
1409	13.69	4.428	0.90	7.03	-72.1	0.75	
1411	13.66	3.992	1.29	7.07	-66.3	0.75	
1414	13.61	4.127	1.28	7.09	-61.1	0.75	
1416	13.68	4.470	0.80	7.08	-56.4	0.75	
1421	—	—	—	—	—	—	Samples Collected

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

BTEX per EPA Method 8021 (3 40mL Vials w/ HCl preserve)
TPH C6-C36 per EPA Method 8015B (2 40mL Vials w/ HCl preserve)
TPH C6-C36 per EPA Method 8015B (40mL Vial w/ no preservative)

Disposal of Purged Water: ____
Collected Samples Stored on Ice in Cooler: ____
Chain of Custody Record Complete: ____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

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

June 06, 2012

Debbie Watson

Animas Environmental Services
624 East Comanche
Farmington, NM 87401
TEL: (505) 486-4071
FAX (505) 324-2022

RE: BMG Hwy 537 2009 Release OrderNo.: 1205B05

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 6 sample(s) on 5/26/2012 for the analyses presented in the following report.

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1205B05**
Date Reported: **6/6/2012**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-1
Project: BMG Hwy 537 2009 Release
Collection Date: 5/24/2012 5:13:00 PM
Lab ID: 1205B05-001 **Matrix:** AQUEOUS **Received Date:** 5/26/2012 11:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	5/30/2012 12:12:58 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	5/30/2012 12:12:58 PM
Surr: DNOP	125	61.3-164		%REC	1	5/30/2012 12:12:58 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	0.59	0.050		mg/L	1	6/1/2012 2:18:31 AM
Surr: BFB	107	69.3-120		%REC	1	6/1/2012 2:18:31 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	210	10		µg/L	10	6/1/2012 5:32:41 PM
Toluene	2.1	1.0		µg/L	1	6/1/2012 2:18:31 AM
Ethylbenzene	31	1.0		µg/L	1	6/1/2012 2:18:31 AM
Xylenes, Total	5.1	2.0		µg/L	1	6/1/2012 2:18:31 AM
Surr: 4-Bromofluorobenzene	112	55-140		%REC	1	6/1/2012 2:18:31 AM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-3
Project: BMG Hwy 537 2009 Release
Collection Date: 5/24/2012 4:42:00 PM
Lab ID: 1205B05-002 **Matrix:** AQUEOUS **Received Date:** 5/26/2012 11:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	5/30/2012 12:38:41 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	5/30/2012 12:38:41 PM
Surr: DNOP	119	61.3-164		%REC	1	5/30/2012 12:38:41 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	0.33	0.050		mg/L	1	6/1/2012 3:19:56 AM
Surr: BFB	112	69.3-120		%REC	1	6/1/2012 3:19:56 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	50	1.0		µg/L	1	6/1/2012 3:19:56 AM
Toluene	ND	1.0		µg/L	1	6/1/2012 3:19:56 AM
Ethylbenzene	3.0	1.0		µg/L	1	6/1/2012 3:19:56 AM
Xylenes, Total	ND	2.0		µg/L	1	6/1/2012 3:19:56 AM
Surr: 4-Bromofluorobenzene	109	55-140		%REC	1	6/1/2012 3:19:56 AM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-4
Project: BMG Hwy 537 2009 Release
Collection Date: 5/24/2012 4:10:00 PM
Lab ID: 1205B05-003 **Matrix:** AQUEOUS **Received Date:** 5/26/2012 11:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	5/30/2012 1:04:33 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	5/30/2012 1:04:33 PM
Surr: DNOP	125	61.3-164		%REC	1	5/30/2012 1:04:33 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	6/1/2012 6:03:19 PM
Surr: BFB	102	69.3-120		%REC	1	6/1/2012 6:03:19 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	6/1/2012 6:03:19 PM
Toluene	ND	1.0		µg/L	1	6/1/2012 6:03:19 PM
Ethylbenzene	ND	1.0		µg/L	1	6/1/2012 6:03:19 PM
Xylenes, Total	ND	2.0		µg/L	1	6/1/2012 6:03:19 PM
Surr: 4-Bromofluorobenzene	102	55-140		%REC	1	6/1/2012 6:03:19 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-8
Project: BMG Hwy 537 2009 Release
Collection Date: 5/24/2012 3:37:00 PM
Lab ID: 1205B05-004 **Matrix:** AQUEOUS **Received Date:** 5/26/2012 11:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	5/30/2012 1:30:26 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	5/30/2012 1:30:26 PM
Surr: DNOP	127	61.3-164		%REC	1	5/30/2012 1:30:26 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	0.12	0.050		mg/L	1	6/1/2012 4:21:21 AM
Surr: BFB	85.3	69.3-120		%REC	1	6/1/2012 4:21:21 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	6/1/2012 4:21:21 AM
Toluene	ND	1.0		µg/L	1	6/1/2012 4:21:21 AM
Ethylbenzene	ND	1.0		µg/L	1	6/1/2012 4:21:21 AM
Xylenes, Total	ND	2.0		µg/L	1	6/1/2012 4:21:21 AM
Surr: 4-Bromofluorobenzene	77.8	55-140		%REC	1	6/1/2012 4:21:21 AM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-9
Project: BMG Hwy 537 2009 Release
Collection Date: 5/24/2012 2:21:00 PM
Lab ID: 1205B05-005 **Matrix:** AQUEOUS **Received Date:** 5/26/2012 11:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	5/30/2012 1:56:34 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	5/30/2012 1:56:34 PM
Surr: DNOP	121	61.3-164		%REC	1	5/30/2012 1:56:34 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	0.076	0.050		mg/L	1	6/1/2012 4:51:58 AM
Surr: BFB	98.6	69.3-120		%REC	1	6/1/2012 4:51:58 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	3.8	1.0		µg/L	1	6/1/2012 4:51:58 AM
Toluene	ND	1.0		µg/L	1	6/1/2012 4:51:58 AM
Ethylbenzene	1.4	1.0		µg/L	1	6/1/2012 4:51:58 AM
Xylenes, Total	ND	2.0		µg/L	1	6/1/2012 4:51:58 AM
Surr: 4-Bromofluorobenzene	99.5	55-140		%REC	1	6/1/2012 4:51:58 AM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Trip Blank
Project: BMG Hwy 537 2009 Release
Collection Date:
Lab ID: 1205B05-006
Matrix: TRIP BLANK
Received Date: 5/26/2012 11:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	6/1/2012 6:34:04 PM
Toluene	ND	1.0		µg/L	1	6/1/2012 6:34:04 PM
Ethylbenzene	ND	1.0		µg/L	1	6/1/2012 6:34:04 PM
Xylenes, Total	ND	2.0		µg/L	1	6/1/2012 6:34:04 PM
Surr: 4-Bromofluorobenzene	79.6	55-140		%REC	1	6/1/2012 6:34:04 PM

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1205B05**

06-Jun-12

Client: Animas Environmental Services

Project: BMG Hwy 537 2009 Release

Sample ID **MB-2148**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Diesel Range**
Client ID: **PBW**	Batch ID: **2148**	RunNo: **3090**
Prep Date: **5/30/2012**	Analysis Date: **5/30/2012**	SeqNo: **85581** Units: **mg/L**

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)	ND	5.0								
Surr: DNOP	1.3		1.000		128	61.3	164			

Sample ID **LCS-2148**	SampType: **LCS**	TestCode: **EPA Method 8015B: Diesel Range**
Client ID: **LCSW**	Batch ID: **2148**	RunNo: **3090**
Prep Date: **5/30/2012**	Analysis Date: **5/30/2012**	SeqNo: **85583** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.3	1.0	5.000	0	106	74	157			
Surr: DNOP	0.52		0.5000		103	61.3	164			

Sample ID **LCSD-2148**	SampType: **LCSD**	TestCode: **EPA Method 8015B: Diesel Range**
Client ID: **LCSS02**	Batch ID: **2148**	RunNo: **3090**
Prep Date: **5/30/2012**	Analysis Date: **5/30/2012**	SeqNo: **85585** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.1	1.0	5.000	0	103	74	157	3.68	23	
Surr: DNOP	0.53		0.5000		106	61.3	164	0	0	

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD 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
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1205B05**

06-Jun-12

Client: Animas Environmental Services

Project: BMG Hwy 537 2009 Release

Sample ID **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **PBW**	Batch ID: **R3145**	RunNo: **3145**
Prep Date:	Analysis Date: **5/31/2012**	SeqNo: **86907** 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	16		20.00		79.9	69.3	120			

Sample ID **2.5UG GRO LCS**	SampType: **LCS**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **LCSW**	Batch ID: **R3145**	RunNo: **3145**
Prep Date:	Analysis Date: **5/31/2012**	SeqNo: **86908** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.54	0.050	0.5000	0	108	101	123			
Surr: BFB	20		20.00		97.7	69.3	120			

Sample ID **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **PBW**	Batch ID: **R3175**	RunNo: **3175**
Prep Date:	Analysis Date: **6/1/2012**	SeqNo: **87777** 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	17		20.00		82.7	69.3	120			

Sample ID **2.5UG GRO LCS**	SampType: **LCS**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **LCSW**	Batch ID: **R3175**	RunNo: **3175**
Prep Date:	Analysis Date: **6/1/2012**	SeqNo: **87778** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.57	0.050	0.5000	0	114	101	123			
Surr: BFB	21		20.00		105	69.3	120			

Sample ID **1205B05-002AMS**	SampType: **MS**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **MW-3**	Batch ID: **R3175**	RunNo: **3175**
Prep Date:	Analysis Date: **6/1/2012**	SeqNo: **87787** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.84	0.050	0.5000	0.3280	103	75.4	121			
Surr: BFB	19		20.00		95.5	69.3	120			

Sample ID **1205B05-002AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **MW-3**	Batch ID: **R3175**	RunNo: **3175**
Prep Date:	Analysis Date: **6/1/2012**	SeqNo: **87788** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.85	0.050	0.5000	0.3280	104	75.4	121	0.851	10.5	
Surr: BFB	23		20.00		113	69.3	120	0	0	

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD 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
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1205B05**

06-Jun-12

Client: Animas Environmental Services

Project: BMG Hwy 537 2009 Release

Sample ID **1205B05-003AMS**	SampType: **MS**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **MW-4**	Batch ID: **R3175**	RunNo: **3175**
Prep Date:	Analysis Date: **6/1/2012**	SeqNo: **87790** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.57	0.050	0.5000	0	115	75.4	121			
Surr: BFB	17		20.00		85.3	69.3	120			

Sample ID **1205B05-003AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **MW-4**	Batch ID: **R3175**	RunNo: **3175**
Prep Date:	Analysis Date: **6/2/2012**	SeqNo: **87791** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.54	0.050	0.5000	0	107	75.4	121	6.93	10.5	
Surr: BFB	20		20.00		101	69.3	120	0	0	

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1205B05**

06-Jun-12

Client: Animas Environmental Services

Project: BMG Hwy 537 2009 Release

Sample ID **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBW**	Batch ID: **R3145**	RunNo: **3145**
Prep Date:	Analysis Date: **5/31/2012**	SeqNo: **86942** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	16		20.00		81.0	55	140			

Sample ID **100NG BTEX LCS**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSW**	Batch ID: **R3145**	RunNo: **3145**
Prep Date:	Analysis Date: **5/31/2012**	SeqNo: **86943** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	105	80	120			
Toluene	21	1.0	20.00	0	105	80	120			
Ethylbenzene	21	1.0	20.00	0	103	80	120			
Xylenes, Total	63	2.0	60.00	0	104	80	120			
Surr: 4-Bromofluorobenzene	18		20.00		91.1	55	140			

Sample ID **1205A72-005AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BatchQC**	Batch ID: **R3145**	RunNo: **3145**
Prep Date:	Analysis Date: **5/31/2012**	SeqNo: **86945** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	80	1.0	20.00	59.46	104	70.1	118			
Toluene	23	1.0	20.00	2.778	99.7	72.3	117			
Ethylbenzene	21	1.0	20.00	0.3800	102	73.5	117			
Xylenes, Total	65	2.0	60.00	2.968	104	73.1	119			
Surr: 4-Bromofluorobenzene	18		20.00		90.2	55	140			

Sample ID **1205A72-005AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BatchQC**	Batch ID: **R3145**	RunNo: **3145**
Prep Date:	Analysis Date: **5/31/2012**	SeqNo: **86946** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	78	1.0	20.00	59.46	93.5	70.1	118	2.54	16.4	
Toluene	22	1.0	20.00	2.778	95.3	72.3	117	3.94	13.9	
Ethylbenzene	20	1.0	20.00	0.3800	97.8	73.5	117	3.77	13.5	
Xylenes, Total	63	2.0	60.00	2.968	99.8	73.1	119	3.84	12.9	
Surr: 4-Bromofluorobenzene	18		20.00		91.0	55	140	0	0	

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD 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
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1205B05**

06-Jun-12

Client: Animas Environmental Services

Project: BMG Hwy 537 2009 Release

Sample ID **1205B05-001AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **MW-1**	Batch ID: **R3145**	RunNo: **3145**
Prep Date:	Analysis Date: **5/31/2012**	SeqNo: **86948** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Toluene	23	1.0	20.00	2.064	105	72.3	117			
Ethylbenzene	52	1.0	20.00	31.35	104	73.5	117			
Xylenes, Total	67	2.0	60.00	5.112	103	73.1	119			
Surr: 4-Bromofluorobenzene	20		20.00		101	55	140			

Sample ID **1205B05-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **MW-1**	Batch ID: **R3145**	RunNo: **3145**
Prep Date:	Analysis Date: **5/31/2012**	SeqNo: **86949** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Toluene	23	1.0	20.00	2.064	105	72.3	117	0.425	13.9	
Ethylbenzene	53	1.0	20.00	31.35	106	73.5	117	0.753	13.5	
Xylenes, Total	68	2.0	60.00	5.112	104	73.1	119	1.18	12.9	
Surr: 4-Bromofluorobenzene	21		20.00		107	55	140	0	0	

Sample ID **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBW**	Batch ID: **R3175**	RunNo: **3175**
Prep Date:	Analysis Date: **6/1/2012**	SeqNo: **87808** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	17		20.00		83.9	55	140			

Sample ID **100NG BTEX LCS**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSW**	Batch ID: **R3175**	RunNo: **3175**
Prep Date:	Analysis Date: **6/1/2012**	SeqNo: **87809** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	103	80	120			
Toluene	21	1.0	20.00	0	105	80	120			
Ethylbenzene	20	1.0	20.00	0	101	80	120			
Xylenes, Total	62	2.0	60.00	0	104	80	120			
Surr: 4-Bromofluorobenzene	23		20.00		113	55	140			

Sample ID **1205B06-001AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BatchQC**	Batch ID: **R3175**	RunNo: **3175**
Prep Date:	Analysis Date: **6/1/2012**	SeqNo: **87819** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD 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
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1205B05**

06-Jun-12

Client: Animas Environmental Services

Project: BMG Hwy 537 2009 Release

Sample ID **1205B06-001AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BatchQC**	Batch ID: **R3175**	RunNo: **3175**
Prep Date:	Analysis Date: **6/1/2012**	SeqNo: **87819** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	38	2.0	40.00	0	95.3	70.1	118			
Toluene	38	2.0	40.00	0	94.9	72.3	117			
Ethylbenzene	37	2.0	40.00	0	92.5	73.5	117			
Xylenes, Total	110	4.0	120.0	0	94.9	73.1	119			
Surr: 4-Bromofluorobenzene	42		40.00		105	55	140			

Sample ID **1205B06-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BatchQC**	Batch ID: **R3175**	RunNo: **3175**
Prep Date:	Analysis Date: **6/1/2012**	SeqNo: **87820** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	38	2.0	40.00	0	95.1	70.1	118	0.200	16.4	
Toluene	38	2.0	40.00	0	94.1	72.3	117	0.815	13.9	
Ethylbenzene	36	2.0	40.00	0	91.0	73.5	117	1.64	13.5	
Xylenes, Total	110	4.0	120.0	0	93.0	73.1	119	1.99	12.9	
Surr: 4-Bromofluorobenzene	44		40.00		110	55	140	0	0	

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

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: 1205B05

Received by/date: AF 05/26/12

Logged By: Michelle Garcia 5/26/2012 11:30:00 AM Michelle Garcia

Completed By: Michelle Garcia 5/29/2012 9:39:45 AM Michelle Garcia

Reviewed By: 05/29/12

Chain of Custody

1. Were seals intact? Yes ☐ No ☐ Not Present ☑
2. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log in

4. Coolers are present? (see 19. for cooler specific information) Yes ☑ No ☐ NA ☐
5. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☑ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
10. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
11. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☑
12. Were any sample containers received broken? Yes ☐ No ☑
13. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
15. Is it clear what analyses were requested? Yes ☑ No ☐
16. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

18. Additional remarks:

19. Cooler Information

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

Chain-of-Custody Record

Client: Animas Environmental Services

Mailing Address: 624 E Comanche
Farmington NM 87401

Phone #: 505-564-2281

Email or Fax#: 505-324-2022

QA/QC Package:
Standard ☐ Level 4 (Full Validation)

Accreditation:
NELAP ☐ Other

EDD (Type)

Turn-Around Time:
X Standard ☐ Rush

Project Name:
BMG Hwy 537 2009 Release

Project #:
AES 090201

Project Manager:
Deborah Watson

Sampler:

On Ice: X Yes ☐ No

Sample Temperature: 1.0

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1205B05	Analysis Request: BTEX 8021	TPH 8015 (C6 - C36) (GRO, DRO, MRO)	Air Bubbles (Y or N)
4/10	1713	H_2O	MW-1	Glass 6 - 40 mL	5 - HCl 1 - Non	-001	X	X	
4/12	1642	H_2O	MW-3	Glass 6 - 40 mL	5 - HCl 1 - Non	-002	X	X	
/12	1610	H_2O	MW-4	Glass 6 - 40 mL	5 - HCl 1 - Non	-003	X	X	
4/12	1537	H_2O	MW-8	Glass 6 - 40 mL	5 - HCl 1 - Non	-004	X	X	
4/12	1421	H_2O	MW-9	Glass 6 - 40 mL	5 - HCl 1 - Non	-005	X	X	
		H_2O	Trip Blank	Glass 2 - 40 mL	HCl	-006	X		

Date:	Time:	Relinquished by:	Received by:	Date	Time
25/12	1147			5/25/12	1147
Date:	Time:	Relinquished by:	Received by:	Date	Time
5/12	1237			5/26/12	11:30

Remarks: