REVIEWED
By Mike Buchanan at 1:14 pm, Aug 03, 2023

Review of the Q1 through Q4 Annual 2022 Progress Report:
Content Satisfactory
1. Continue to sample and monitor groundwater in MW-1 for VOCs, Phenols, and Manganese per progress report.
2. Gauge all wells for depth to groundwater and water quality parameters on an annual basis.
3. Replace the absorbent sock in MW-1 as needed.
4. Submit the next progress report for 2023 by April 1, 2024.

March 31, 2023

Nelson Velez
New Mexico Oil Conservation Division
1000 Rio Brazos Road
Aztec, New Mexico 87410

Re: Q1 through Q4 Annual 2022 Progress Report
Benson-Montin-Greer
Highway 537 Truck Receiving Station 2009 Release
Rio Arriba County, New Mexico
AP-137 (Formerly 3RP-448)
Incident #NRMD0929447874

Dear Mr. Velez:

On behalf of Benson-Montin-Greer Drilling Corporation (BMG), Animas Environmental Services, LLC (AES) has prepared this Annual 2022 Progress Report, which provides details of monitoring and sampling of site wells at the BMG Highway 537 Truck Receiving Station 2009 Release location. Site activities were conducted in accordance with a Stage 1 and 2 Abatement Plan dated June 14, 2019, and Abatement Plan approval is currently pending.

1.0 Site Information

1.1 Site Location

The 2009 release originated on the Schmitz Ranch, on the south side of Highway 537 and within the bermed area of the Highway 537 Truck Receiving Station. The station is adjacent to the Los Ojitos Arroyo, which ultimately drains to Largo Canyon. The release location is legally described 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, is included as Figure 1, and a general site plan is presented as Figure 2.

1.2 Release History

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

624 E. Comanche Street, Farmington, NM 87401
P.O. Box 8, Farmington, NM 87499-008
505-564-2281 animasenvironmental.com

arrived on-site and confirmed a leak at a buried 6-inch line between the storage tanks and the truck loading pump. The release was the result of a corrosion hole along the bottom of the pipe near the truck loading pumps.

February 2, 2009 - the 6-inch line was repaired, and the excavation was backfilled with clean fill material. Approximately 100 cubic yards (CY) of contaminated soil were transported to the TNT Landfarm for disposal.

1.3 Site Investigation and Monitor Well Installation

February 16 through 20, 2009 - site investigation activities were conducted by AES to delineate the full extent of petroleum hydrocarbon impact on surface and subsurface soils and groundwater resulting from the release. The investigation included the installation of 11 monitor wells (MW-1 through MW-11) and collection of soil and groundwater samples. Note that non-aqueous phase liquid (NAPL) was not observed during groundwater monitor well installation or subsequent sampling.

Soils were found to consist of interbedded layers of moist reddish-brown clayey and silty sand, moist reddish-brown silty and sandy clay, poorly sorted tan sands and sandstone, and moist stiff brown clays. Soil contaminant concentrations exceeded New Mexico Oil Conservation Division (NMOCD) action levels for total benzene, toluene, ethylbenzene, and total xylenes (BTEX) in MW-1, MW-3, MW-4, and MW-8. Soil concentrations for total petroleum hydrocarbons (TPH) exceeded laboratory detection limits in MW-1, MW-3, MW-4, and MW-8. The highest total BTEX concentrations and total TPH concentrations were reported at 345 milligrams per kilogram (mg/kg) and 8,100 mg/kg, respectively, at 26 feet below ground surface (ft bgs) in MW-3. Details of the site investigation are included in the AES *Site Investigation Report* submitted to NMOCD in April 2009.

May 12 and June 4, 2014 - AES conducted further site assessment on behalf of BMG as part of termination of the site lease and removal of site structures and infrastructure. The work included soil sampling during the excavation of hydrocarbon contaminated soils, discovered when the storage tanks and truck loading station were removed from the site, and a subsequent assessment of subsurface soils, utilizing a Geoprobe.

- Former Tank Area - under the former tank area, the field screening results for volatile organic compounds (VOCs) via organic vapor meter (OVM) ranged from 0.0 parts per million (ppm) in SB-1, SB-2, SB-4, and SB-6 up to 1,048 ppm in SB-5 (8 to 12 ft below ground surface [bgs]). Except for SB-5, VOC concentrations in the tank area borings were below the NMOCD action level of 100 ppm VOCs. Field TPH concentrations were also below the NMOCD action level of 100 mg/kg in all

borings, except SB-5, in which the highest TPH concentration was noted at 225 mg/kg (12 to 16 ft bgs). The remaining intervals in SB-5 had TPH concentrations of 61.5 mg/kg (4 to 8 ft and 8 to 12 ft bgs) and 69.2 mg/kg (16 to 20 ft bgs). Excepting SB-5, residual contaminant concentrations below the former tank area were below applicable NMOCD action levels for VOCs and TPH.

- Former Truck Loading Station - Under the former loading area, the field screening results for VOCs via OVM ranged from 0.3 ppm in SB-15, SB-16, SB-17, and SB-20, up to greater than 5,000 ppm in SB-11 through SB-14, SB-18, and SB-19. Field TPH concentrations were also reported above the NMOCD action level of 100 mg/kg. Based on VOC and TPH concentrations, residual contaminants in subsurface soils were still present at the former truck loading station area and former pump area. Results of the excavation assessment confirmed that residual contaminants were present under the former loading area; approximately 600 CY of petroleum-impacted soil were subsequently removed from the excavated areas and transported to the BMG Landfarm by TPC, LLC. Results of the excavation assessment were submitted in a report dated November 12, 2014.

1.4 Groundwater Monitoring and Sampling, 2009 to 2017

AES conducted quarterly to semi-annual groundwater measurement and sampling from March 2009 through August 2017. Note that MW-2, MW-4, MW-5, MW-6, MW-7, MW-10, and MW-11 had either trace concentrations or concentrations below laboratory detection limits since the wells were installed. In the remaining wells, MW-1, MW-3, MW-8, and MW-9, there were significant contaminant reductions through monitored natural attenuation; however, in 2014, 1.18 ft of NAPL was detected in MW-1 after groundwater in the area had declined approximately 3 ft over a 5-year period.

By 2016, 9 of the 11 monitor wells (MW-2 and MW-4 through MW-11) had eight or more consecutive sampling events with readings below applicable New Mexico Water Quality Control Commission (WQCC) standards. Cumulative groundwater measurement and water quality data are presented in Table 1, and a summary of groundwater analytical results is presented in Table 2.

1.5 Monitor Well P&A—MW-6 through MW-11, August 2017

On August 7, 2017, BMG, with approval from NMOCD, completed the plugging and abandonment (P&A) of six monitor wells located at the site, including MW-6 through MW-11. These monitor wells all had at least eight consecutive events of groundwater contaminant concentrations below laboratory detection limits or below applicable New

Mexico WQCC standards. At the request of NMOCD, MW-2, MW-4, and MW-5 were kept open so that they could continue to be gauged for depth to groundwater and hydraulic gradient could be determined.

1.6 NAPL Recovery Efforts in MW-1

NAPL was first observed in MW-1 in April 2014, when groundwater elevations gradually declined about 3 ft from when the wells were first installed in 2009. By August 2014, BMG had arranged for aggressive NAPL recovery to be implemented with a high vacuum multi-phase extraction (MPE) unit, which was powered by a mobile internal combustion engine (ICE) unit. The unit ran between August and November 2014 and April to May 2015. In 2014, 1,957 pounds (lbs) of petroleum hydrocarbons were removed as a combination of vapors, NAPL (limited), and dissolved phase constituents. In 2015, approximately 1,874 lbs of hydrocarbons were removed as a combination of vapors and dissolved phase constituents. MPE operations were suspended in May 2015 because of high production of water and rapidly decreasing mass removal rates.

A short pilot study utilizing a low vacuum Solar Sipper was conducted in January 2015; success was moderate primarily because of short daylight hours.

Limited hand-bailing was conducted from 2014 through 2016, and on a quarterly basis in 2017. After further NAPL testing in 2017 showed that the transmissivity of the residual NAPL had decreased to well below 0.5 square feet per day (ft^2/day), NMOCD allowed NAPL recovery to continue via hand-bailing on a monthly basis. Based on data from monthly hand-bailing events from 2018 through March 2019, measured NAPL thickness in MW-1 continued to decrease and remains below the recommended NAPL thickness of 0.5 ft for conducting additional transmissivity testing.

Results of NAPL recovery efforts since 2014, when NAPL was first observed in MW-1, are summarized below. Groundwater and NAPL measurement data are included in Table 1, and historic groundwater analytical results are found in Table 2.

Petroleum Hydrocarbon Mass Removal to Date
in MW-1 at BMG Hwy 537 2009 Release

Time Period	*Mass Petroleum Hydrocarbons Removed (lbs)*
August to November 2014 (MPE)	1,957
Pilot Study January 2015 (Solar Sipper)	8
April to May 2015 (MPE)	1,874
Hand-Bailing (2016-2017)	62
Hand-Bailing (2018)	12
Cumulative Mass	***3,913***

Residual NAPL continued to be observed in MW-1 throughout 2020 (0.01 ft in March 2020 to 0.05 ft in September 2020), and a hydrophobic absorbent sock was installed in MW-1 in June 2020. The sock was checked periodically and replaced as needed throughout 2021.

1.7 Site Activities, 2019 to 2021

1.7.1 Groundwater Monitoring and Sampling, March 2019

AES conducted groundwater monitoring and sampling in March 2019. NAPL was detected in MW-1 (0.01 ft). After fully bailing off NAPL, groundwater samples from MW-1 were submitted for laboratory analysis. The dissolved benzene concentration of 340 micrograms per liter (µg/L) exceeded the WQCC standard of 5 µg/L.

Geochemical analyses were also collected to assist in determining chemical injection masses for treatment of residual contaminants. Samples from MW-1 were laboratory analyzed for the following:

- Dissolved iron and manganese (USEPA Method 6020);
- Total iron and manganese (USEPA Method 6010); and
- Nitrate and sulfate (USEPA Method 300.0).

Groundwater and NAPL measurement data are included in Table 1, and historic groundwater analytical results are tabulated and presented in Tables 2 and 3.

1.7.2 Soil Boring Installation and Groundwater Sampling, September 2019

On September 5, 2019, AES installed two soil borings (B1 and B2) in accordance with the proposed Abatement Plan to assist in planning for chemical injections at the location. Site lithology at B1 was observed to consist of cobbles and sandy soils from the surface to 5 ft bgs, clay and sand from 5 to 25 ft bgs, and clay from 20 ft to 35 ft bgs. Boring B2 is characterized by clay with sand to 5 ft bgs, clayey sand from 5 to 25 ft bgs, and clay to 35 ft bgs. Strong odors were noted throughout both borings until the terminal depths of 35 ft bgs.

Elevated petroleum hydrocarbon BTEX contaminants above the NMOCD action levels were present in soil at B1 from the surface to 30 ft bgs, and at B2 at 15 and 20 ft bgs. Elevated TPH (as gasoline-range organics [GRO], diesel-range organics [DRO], and motor oil-range organics[MRO]) concentrations were present throughout B1, and in B2 to a depth of 25 ft bgs. Chloride concentrations were below laboratory detection levels.

On September 25, 2019, groundwater gauging and sampling occurred. Residual NAPL was observed in MW-1 (0.08 ft), and MW-5 was noted to have a damaged well casing. NAPL was effectively bailed off from MW-1 (source area well), and samples were collected for laboratory analysis of WQCC parameters listed in NMAC 20.6.2.3103 as noted in the Abatement Plan. MW-1 exceeded WQCC standards for benzene (88 µg/L), total dissolved solids (TDS) (3,500 milligrams per liter [mg/L]), sulfate (1,800 mg/L), phenols (0.028 mg/L), uranium (0.036 mg/L), total aluminum (20 mg/L), total iron (28 mg/L), and total manganese (0.68 mg/L). Groundwater concentrations were either below laboratory detection limits or below applicable WQCC standards for all other parameters analyzed.

1.7.3 Abatement Plan

A Stage 1 and 2 Abatement Plan was submitted to NMOCD for approval on June 14, 2019, in accordance with a request from NMOCD dated March 21, 2019. Plan approval is currently pending.

1.7.4 Groundwater Monitoring and Sampling, 2020

On March 25, June 23, September 23, and November 23, 2020, groundwater samples were collected from MW-1 (source area well). Additionally, on March 25 and June 23, 2020, groundwater samples were collected from MW-2 (up-gradient well). Groundwater gauging occurred at other site wells during all quarterly events to assist in calculating hydraulic gradient.

Depth to groundwater at the site gradually and slightly decreased at all wells between the March and November 2020 events. The groundwater elevation at MW-1 (31.53 ft bgs)

decreased to a near record low at MW-1 (31.65 ft bgs), and to record lows at MW-2 through MW-5, with elevations ranging from 30.84 ft bgs at MW-3 to 31.66 ft bgs at MW-5 in November 2020. Gradient was calculated to be to the southwest which is consistent with previous site data.

Residual NAPL was observed in MW-1 (0.01 ft in March 2020 to 0.05 ft in September 2020). NAPL was effectively bailed off to a sheen, a hydrophobic absorbent sock was installed in June 2020.

MW-1 exceeded WQCC standards for: benzene (220 µg/L in March, 760 µg/L in June, 9.7 µg/L in September, and 110 µg/L in November 2020) and dissolved manganese (0.52 mg/L in March and 0.66 in June 2020).

1.7.5 Groundwater Monitoring and Sampling, 2021

On March 17, June 17, September 29, and December 14, 2021, groundwater samples were collected from MW-1 (source area well). Groundwater gauging occurred at other site wells to assist in calculating hydraulic gradient.

Depth to groundwater at the site rebounded slightly between the November 2020 and March 2021 sampling events, but then decreased to record lows in each well in subsequent events, with December 2021 depths to groundwater ranging from 32.01 ft bgs at MW-1 to 32.5 ft bgs at MW-3 and MW-4. Gradient was calculated to be to the southwest and is consistent with previous site data;

Residual NAPL was observed in MW-1 (sheen in March to 0.02 ft in September 2021). NAPL was effectively bailed off to a sheen during all four events, and samples were collected in from MW-1. In addition, a hydrophobic absorbent sock installed in June 2020 continues to be utilized in MW-1;

MW-1 exceeded the WQCC standard of 5 µg/L for benzene with 160 µg/L in March, 14 µg/L in June, 190 µg/L in September, and 54 µg/L in December. This well surpassed the WQCC standard of 0.2 mg/L for dissolved manganese with 0.42 mg/L in September.

2.0 Groundwater Monitoring and Sampling, 2022

Groundwater monitoring and sampling was conducted by AES in March, June, September, and December 2022. All samples were preserved in laboratory-supplied containers and stored in an insulated cooler containing ice. Samples were shipped by Hall personnel in chilled and insulated coolers at less than 6°C to the analytical laboratory.

Groundwater elevations are presented in Table 1. Water sample collection forms are presented in Appendix A, and laboratory analytical reports are in Appendix B.

2.1 March 2022

Groundwater monitoring of all site wells and sampling of monitor well MW-1 was conducted by AES on March 8, 2022, for 1st Quarter 2022. During the sampling event, NAPL (0.01 ft) was detected in MW-1 before the initial bail. NAPL was bailed from this well, and because groundwater recharge was sufficient, samples were able to be collected for laboratory analysis.

Groundwater Elevations and Water Quality Measurements

Depth to groundwater at the site ranged from 30.42 ft bgs at MW-1 to 34.14 ft bgs at MW-2. Temperature ranged from 12.2°C to 12.4°C, and specific conductivity measurements were between 3.209 milliSiemens (mS) in MW-3 and 3.634 mS in MW-4. Dissolved oxygen readings were between 8.0 mg/L in MW-2 and 13.0 mg/L in MW-3 while pH ranged from 7.0 to 7.2. Oxidation reduction potential (ORP) readings were between 34.6 millvolts (mV) in MW-3 and 102.8 mV in MW-4. Field water quality measurements could not be obtained from MW-1 due to a NAPL sheen remaining after bailing and MW-5 was noted to have a damaged well casing. Groundwater gradient was calculated to be 0.02 ft/ft in a southwestern direction. March 2022 groundwater elevations and contours are presented in Figure 3A.

Groundwater Laboratory Analyses

Groundwater samples from MW-1 (near the release area) were submitted to Hall in Albuquerque, New Mexico, for analysis of the following parameters listed in NMAC 20.6.2.3103(A-C) in accordance with the proposed Abatement Plan:

- Volatile organic compounds (VOCs) per USEPA Method 8260.

Groundwater Laboratory Analytical Results

Groundwater analytical results for MW-1 showed concentrations *above WQCC standards* for the following parameters:

- Benzene - 180 µg/L (WQCC standard 5 µg/L).

Groundwater analytical results are tabulated and presented in Tables 2 and 3; and are also presented on Figure 4. The laboratory analytical report is included in Appendix B.

2.2 June 2022

Groundwater monitoring of all site wells and sampling of monitor well MW-1 was conducted by AES on June 9, 2022, for 2nd Quarter 2022. During the sampling event, a residual NAPL sheen remained in MW-1. NAPL was bailed from this well, and because groundwater recharge was sufficient, samples were able to be collected for laboratory analysis.

Groundwater Elevations and Water Quality Measurements

Depth to groundwater at the site ranged from 31.31 ft bgs at MW-3 to 32.16 ft bgs at MW-5. NAPL was measured only at MW-1 (sheen). Temperature ranged from 13.5°C to 14.3°C. Specific conductivity ranged from 2.809 mS in MW-3 and 3.067 mS in MW-4, while dissolved oxygen was between 1.2 mg/L in MW-2 and 2.6 mg/L in MW-4. pH was between 7.2 and 7.29, and ORP ranged from 31.5 mV in MW-3 to 134.6 mV in MW-2. Field water quality measurements could not be obtained from MW-1 due to a NAPL sheen remaining after bailing and the well casing at MW-5 was again noted to be damaged. Groundwater gradient was calculated to be 0.005 ft/ft in a southwestern direction. June 2022 groundwater elevations and contours are presented in Figure 3B.

Groundwater Laboratory Analyses

Groundwater samples from MW-1 (near the release area) were submitted to Hall in Albuquerque, New Mexico, for analysis of the following parameters listed in NMAC 20.6.2.3103(A-C) in accordance with the proposed Abatement Plan:

- BTEX per USEPA Method 8260 Short List.

Groundwater Laboratory Analytical Results

Groundwater analytical results for MW-1 showed concentrations *above WQCC standards* for the following parameters:

- Benzene - 76 µg/L (WQCC standard 5 µg/L).

Groundwater analytical results are tabulated and presented in Tables 2 and 3; and are also presented on Figure 4.

2.3 September 2022

Groundwater monitoring of all site wells and sampling of monitor well MW-1 was conducted by AES on September 28, 2022, for 3rd Quarter 2022. During the sampling event, a NAPL sheen remained in MW-1. NAPL was bailed from this well, and because

groundwater recharge was sufficient, samples were able to be collected for laboratory analysis.

Groundwater Elevations and Water Quality Measurements

Depth to groundwater at the site ranged from 29.58 ft bgs at MW-3 to 30.99 ft bgs at MW-5. NAPL was measured only at MW-1 (sheen) and the MW-5 well casing was again observed to be damaged. Temperature readings in the wells ranged between 14.3°C and 14.6°C. Specific conductivity measurements were between 2.805 mS in MW-3 up to 3.048 mS in MW-2, and groundwater pH ranged from 7.06 to 7.2. Dissolved oxygen readings were between 1.32 in MW-4 to 2.0 in MW-2, and ORP readings ranged from 77.5 mV to 215.1 mV. Groundwater gradient was calculated to be 0.007 ft/ft in a west-southwestern direction. September 2022 groundwater elevations and contours are presented in Figure 3C.

Groundwater Laboratory Analyses

Groundwater samples from MW-1 (near the release area) were submitted to Hall in Albuquerque, New Mexico, for analysis of the following parameters listed in NMAC 20.6.2.3103(A-C) in accordance with the proposed Abatement Plan:

- VOCs per USEPA Method 8260.

Groundwater Laboratory Analytical Results

Groundwater analytical results for MW-1 showed concentrations *above WQCC standards* for the following parameters:

- Benzene - 160 µg/L (WQCC standard 5 µg/L).

Groundwater analytical results are tabulated and presented in Tables 2 and 3; and are also presented on Figure 4.

2.4 December 2022

Groundwater monitoring of all site wells and sampling of monitor well MW-1 was conducted by AES on December 21, 2022, for 4th Quarter 2022, and an additional sample was collected for dissolved manganese in March 2023 for inclusion into the Q4 results. During the sampling event, residual NAPL was not observed in MW-1, and samples were able to be collected for laboratory analysis.

Groundwater Elevations and Water Quality Measurements

Depth to groundwater at the site ranged from 30.59 ft bgs at MW-3 to 31.51 ft bgs at MW-5. Field water quality measurements from MW-1 showed temperature at 12.8°C, specific conductivity at 4.12 mS, dissolved oxygen at 2.88 mg/L, pH at 7.1, and ORP at 2.06 mV. Groundwater gradient was calculated to be 0.003 ft/ft in a west-southwestern direction. December 2022 groundwater elevations and contours are presented in Figure 3D.

Groundwater Laboratory Analyses

Groundwater samples from MW-1 (near the release area) were submitted to Hall in Albuquerque, New Mexico, for analysis of the following parameters:

- VOCs per USEPA Method 8260;
- TPH as GRO per USEPA Method 8015B; and
- Dissolved manganese per USEPA Method 200.7.

Groundwater Laboratory Analytical Results

Groundwater analytical results for MW-1 showed concentrations *above WQCC standards* for the following parameters:

- Benzene - 380 µg/L (WQCC standard 5 µg/L);
- Dissolved manganese – 0.27 mg/L (WQCC standard 0.20 mg/L).

TPH as GRO was reported at a concentration of 3.1 mg/L. Note that there are no WQCC standards for TPH. Groundwater analytical results are tabulated and presented in Tables 2 and 3; and are also presented on Figure 4.

3.0 Discussion

Under NMAC 9.15.30 for Abatement Plans, groundwater sampling for parameters listed in NMAC 20.6.2.3103(A-C) are required to identify parameters that may be contaminants of concern. Comprehensive sampling for all parameters was first completed in MW-1 (source/release area) in September 2019, and exceedances were identified for benzene, uranium, sulfate, TDS, total phenols, and dissolved manganese. Subsequent sampling at MW-2 (upgradient) conducted in March 2020 reported sulfate and TDS concentrations consistent with naturally occurring background concentrations and with concentrations in MW-1.

The remaining contaminants of concern in the dissolved phase are dissolved manganese and benzene. AES performed Mann-Kendall analyses for two different time frames for benzene concentrations in MW-1, 2009-2022 (the entire history of the monitor well) and 2019-2022 (the most recent set of consistent quarterly monitoring events). The Mann-Kendall analyses were run using ProUCL 5.1.002, a software package developed by U.S. Environmental Protection Agency for statistical analysis of data generated at Superfund sites, using a confidence coefficient of 0.95. Each trend (for a specific contaminant at a specific well) is categorized as "Increasing", "Decreasing", or "No Trend". For MW-1, benzene concentrations from 2009 to 2022 were categorized as "Decreasing", while the data set for 2019 to 2022 was "No Trend". Benzene concentrations at MW-1 since 2019 are presented in Graph 1.

4.0 Conclusions and Recommendations

4.1 Conclusions

On March 8, June 9, September 28, and December 21, 2022, groundwater samples were collected from MW-1 (source area well). Groundwater gauging occurred at other site wells to assist in calculating hydraulic gradient.

Based on field observations, field screening, and laboratory analytical results from March through December 2022, the following is concluded:

1. Depth to groundwater at the site was near record lows in June 2022 then rebounded slightly in September 2022. December 2022 depths to groundwater ranged from 30.59 ft bgs at MW-3 to 31.51 ft bgs at MW-5. Gradient was calculated to be to the southwest and is consistent with previous site data;

2. Residual NAPL was observed in MW-1 as a sheen in March, June, and September 2022. NAPL was effectively bailed off to a sheen during each of these sampling events, and samples were collected in from MW-1. No NAPL sheen was observed in MW-1 during the December 2022 sampling event for the first time since March 2019. Note that a hydrophobic absorbent sock installed in June 2020 continues to be utilized in MW-1.

3. MW-1 exceeded the WQCC standard of 5 µg/L for benzene with 180 µg/L in March, 76 µg/L in June, 160 µg/L in September, and 380 µg/L in December. Mann-Kendall trend analysis could not determine an increasing or decreasing trend for these concentrations.

4. MW-1 continues to exceed the dissolved phase manganese WQCC standard, with the most recent concentration reported at 0.27 mg/L.

4.2 Recommendations

Based on groundwater concentrations above WQCC standards, AES recommends continued groundwater monitoring and sampling in **MW-1** for:

1. Quarterly: VOCs (USEPA Method 8260);
2. Annual: Phenols (SW-846 9067) and dissolved manganese (USEPA Method 200.7) – to be conducted in September 2023.
3. Gauge all wells for depth to groundwater and water quality parameters on an annual basis (September 2023).
4. Replace absorbent sock in MW-1 as needed.

If you have any questions regarding this report or site conditions, please do not hesitate to contact Angela Ledgerwood at (720) 537-6650 or Elizabeth McNally at (505) 564-2281.

Respectfully Submitted,

Lany Cupps
Environmental Coordinator

Angela Ledgerwood
Senior Project Manager

Elizabeth McNally, P.E.
Principal

Tables

1. Summary of Groundwater Measurement and Water Quality Data
2. Summary of Groundwater Analytical Results – VOCs and TPH

Figures

1. Topographic Site Location Map
2. Aerial Site Map

3A. General Site Map and Groundwater Gradient Map, March 2022
3B. General Site Map and Groundwater Gradient Map, June 2022
3C. General Site Map and Groundwater Gradient Map, September 2022
3D. General Site Map and Groundwater Gradient Map, December 2022

4. Groundwater Contaminant Concentrations, 2022

Graphs

1. Dissolved Phase Benzene and Groundwater Elevations Over Time – MW-1

Appendices

A. Groundwater Sample Collection Forms (March, June, September, and December 2022)
B. Laboratory Analytical Reports (Hall No. 2203681, 2206654, 2209H39, 2212C91, 2303953)

Cc: Zach Stradling (*zstradling@bmgdrilling.com*)
Benson-Montin-Greer Drilling Corp.
4900 College Blvd
Farmington, NM 87401

Craig Schmitz, Private Landowner (hard copy)
#70 County Road 405
Lindrith, NM 87029

Sharepoint/Hwy 537 2009/Reports/2023.03.31 Annual 2022 Groundwater Monitoring Report LC AL EM AL.docx

Tables

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 Measured	Top of Casing Elevation (ft amsl)	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Water Level Elevation (ft amsl)	Corrected GW Elev. (ft)	Temp. (°C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-1	05-Mar-09	7064.66		27.95		7036.71		12.29	5.231	1.27	6.64	-36.1
MW-1	11-Sep-09	7064.66		28.66		7036.00		13.15	7.016	0.65	8.60	-118.5
MW-1	15-Jan-10	7064.66		28.91		7035.75		13.30	3.714	2.74	6.79	-167.8
MW-1	15-Oct-10	7064.66		29.20		7035.46		13.77	4.642	1.51	7.14	-17.9
MW-1	21-Jan-11	7064.66		29.28		7035.38		12.42	4.246	1.63	6.92	-85.8
MW-1	12-May-11	7064.66		28.93		7035.73		13.08	3.830	2.95	7.00	-96.1
MW-1	12-Aug-11	7064.66		29.67		7034.99		14.03	4.637	3.83	6.94	-107.9
MW-1	16-Nov-11	7064.66		29.82		7034.84		11.57	4.385	2.89	5.35	-69.7
MW-1	21-Feb-12	7064.66		29.77		7034.89		12.01	4.063	1.09	6.78	-123.9
MW-1	24-May-12	7064.66		29.77		7034.89		12.94	4.563	1.04	6.95	-46.5
MW-1	10-Sep-12	7064.66		30.14		7034.52		14.63	4.705	1.16	7.12	-15.7
MW-1	04-Dec-12	7064.66		30.33		7034.33		12.55	4.430	1.30	7.11	-7.1
MW-1	26-Mar-13	7064.66		29.87		7034.79		12.20	4.556	1.66	6.72	-5.9
MW-1	01-Jul-13	7064.66		30.41		7034.25		13.52	4.372	3.61	7.18	9.2
MW-1	25-Sep-13	7064.66		29.51		7035.15		12.62	8.264	1.64	7.21	-48.6
MW-1	14-Jan-14	7064.66		30.10		7034.56		12.78	4.905	1.75	NM	-59.5
MW-1	04-Apr-14	7064.66	29.84	31.02	1.18	7033.64	7034.67	Not Measured - NAPL Present (1.18 ft thickness)				
MW-1	26-Sep-14	7064.66	30.25	30.90	0.65	7033.76	7034.33	Not Measured - NAPL Present (0.65 ft thickness)				
MW-1	03-Dec-14	7064.66	30.31	31.47	1.16	7033.19	7034.20	Not Measured - NAPL Present (1.16 ft thickness)				
MW-1	27-Mar-15	7064.66	29.35	29.63	0.28	7035.03	7035.27	Not Measured - NAPL Present (0.28 ft thickness)				
MW-1	08-Dec-15	7064.66	29.84	31.48	1.64	7033.18	7034.61	Not Measured - NAPL Present (1.64 ft thickness)				
MW-1	02-Jun-16	7064.66	29.56	31.21	1.65	7033.45	7034.89	Not Measured - NAPL Present (1.65 ft thickness)				
MW-1	20-Oct-16	7064.66	30.20	30.94	0.74	7033.72	7034.36	Not Measured - NAPL Present (0.74 ft thickness)				
MW-1	26-Jan-17	7064.66	29.77	30.38	0.61	7034.28	7034.81	Not Measured - NAPL Present (0.61 ft thickness)				
MW-1	14-Apr-17	7064.66	29.46	29.73	0.27	7034.93	7035.16	Not Measured - NAPL Present (0.27 ft thickness)				
MW-1	14-Aug-17	7064.66	30.08	31.30	1.22	7033.36	7034.42	Not Measured - NAPL Present (1.22 ft thickness)				

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 Measured	Top of Casing Elevation (ft amsl)	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Water Level Elevation (ft amsl)	Corrected GW Elev. (ft)	Temp. (° C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-1	28-Sep-17	7064.66	30.43	31.65	1.22	7033.01	7034.07	Not Measured - NAPL Present (1.22 ft thickness)				
MW-1	07-Dec-17	7064.66	30.01	30.39	0.38	7034.27	7034.60	Not Measured - NAPL Present (0.38 ft thickness)				
MW-1	09-Jan-18	7064.66	30.12	30.55	0.43	7034.11	7034.48	Not Measured - NAPL Present (0.43 ft thickness)				
MW-1	12-Feb-18	7064.66	30.07	30.44	0.37	7034.22	7034.54	Not Measured - NAPL Present (0.37 ft thickness)				
MW-1	05-Mar-18	7064.66	30.12	30.31	0.19	7034.35	7034.52	Not Measured - NAPL Present (0.19 ft thickness)				
MW-1	05-Apr-18	7064.66	30.13	30.30	0.17	7034.36	7034.51	Not Measured - NAPL Present (0.17 ft thickness)				
MW-1	18-May-18	7064.66	30.18	30.38	0.20	7034.28	7034.45	Not Measured - NAPL Present (0.20 ft thickness)				
MW-1	12-Jun-18	7064.66	30.34	31.06	0.72	7033.60	7034.23	Not Measured - NAPL Present (0.72 ft thickness)				
MW-1	09-Jul-18	7064.66	30.60	30.97	0.37	7033.69	7034.01	Not Measured - NAPL Present (0.37 ft thickness)				
MW-1	13-Aug-18	7064.66	30.73	31.18	0.45	7033.48	7033.87	Not Measured - NAPL Present (0.45 ft thickness)				
MW-1	24-Sep-18	7064.66	30.99	31.31	0.32	7033.35	7033.63	Not Measured - NAPL Present (0.32 ft thickness)				
MW-1	26-Oct-18	7064.66	31.04	31.17	0.13	7033.49	7033.60	Not Measured - NAPL Present (0.13 ft thickness)				
MW-1	19-Nov-18	7064.66	31.05	31.13	0.08	7033.53	7033.60	Not Measured - NAPL Present (0.08 ft thickness)				
MW-1	14-Dec-18	7064.66	31.04	31.08	0.04	7033.58	7033.61	Not Measured - NAPL Present (0.04 ft thickness)				
MW-1	15-Jan-19	7064.66		29.90		7034.76		NM	NM	NM	NM	NM
MW-1	26-Mar-19	7064.66	29.52	29.53	0.01	7035.13	7035.14	13.7	3.297	1.16	7.44	-25.3
MW-1	25-Sep-19	7064.66	30.91	30.99	0.08	7033.67	7033.74	Not Measured - NAPL Present (0.08 ft thickness)				
MW-1	25-Mar-20	7064.66	30.35	30.36	0.01	7034.30	7034.31	Not Measured - NAPL Present (0.01 ft thickness)				
MW-1	23-Jun-20	7064.66	30.94	30.97	0.03	7033.69	7033.72	Not Measured - NAPL Present (0.03 ft thickness)				
MW-1	23-Sep-20	7064.66	31.45	31.50	0.05	7033.16	7033.20	Not Measured - NAPL Present (0.05 ft thickness)				
MW-1	23-Nov-20	7064.66	31.51	31.53	0.02	7033.13	7033.15	Not Measured - NAPL Present (0.02 ft thickness)				
MW-1	17-Mar-21	7064.66		31.44		7033.22	7033.22	Not Measured - NAPL Present (sheen)				
MW-1	17-Jun-21	7064.66	31.71	31.72	0.01	7032.94	7032.95	Not Measured - NAPL Present (0.01 ft thickness)				
MW-1	29-Sep-21	7064.66	32.07	32.09	0.02	7032.57	7032.59	Not Measured - NAPL Present (0.02 ft thickness)				
MW-1	14-Dec-21	7064.66	32.00	32.01	0.01	7032.65	7032.66	Not Measured - NAPL Present (0.01 ft thickness)				
MW-1	08-Mar-22	7064.66	30.41	30.42	0.01	7034.24	7034.25	Not Measured - NAPL Present (0.01 ft thickness)				

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 Measured	Top of Casing Elevation (ft amsl)	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Water Level Elevation (ft amsl)	Corrected GW Elev. (ft)	Temp. (° C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-1	09-Jun-22	7064.66		31.99		7032.67	7032.67	Not Measured - NAPL Present (sheen)				
MW-1	28-Sep-22	7064.66		30.58		7034.08	7034.08	Not Measured - NAPL Present (sheen)				
MW-1	01-Dec-22	7064.66		31.51		7033.15	7033.15	Not Measured - NAPL Present (sheen)				
MW-2	05-Mar-09	7064.65		27.69		7036.96		12.00	4.567	2.59	6.82	-29.8
MW-2	10-Sep-09	7064.65		28.38		7036.27		12.93	6.480	1.09	7.58	62.2
MW-2	15-Jan-10	7064.65		28.62		7036.03		12.49	3.604	2.10	7.57	-70.3
MW-2	14-Oct-10	7064.65		28.91		7035.74		12.49	3.968	1.71	7.40	98.9
MW-2	21-Jan-11	7064.65		28.99		7035.66		11.44	4.045	1.62	8.56	-6.2
MW-2	12-May-11	7064.65		28.63		7036.02		13.14	4.087	1.43	7.67	-66.7
MW-2	12-Aug-11	7064.65		29.37		7035.28		14.08	4.102	4.36	7.09	160.2
MW-2	16-Nov-11	7064.65		29.52		7035.13		11.60	4.021	2.48	7.51	176.2
MW-2	21-Feb-12	7064.65		29.46		7035.19		NM	NM	NM	NM	NM
MW-2	24-May-12	7064.65		29.47		7035.18		NM	NM	NM	NM	NM
MW-2	10-Sep-12	7064.65		29.84		7034.81		NM	NM	NM	NM	NM
MW-2	04-Dec-12	7064.65		30.03		7034.62		NM	NM	NM	NM	NM
MW-2	26-Mar-13	7064.65		29.60		7035.05		NM	NM	NM	NM	NM
MW-2	27-Jun-13	7064.65		30.11		7034.54		NM	NM	NM	NM	NM
MW-2	25-Sep-13	7064.65		29.28		7035.37		NM	NM	NM	NM	NM
MW-2	14-Jan-14	7064.65		29.81		7034.84		NM	NM	NM	NM	NM
MW-2	04-Apr-14	7064.65		29.84		7034.81		NM	NM	NM	NM	NM
MW-2	10-Sep-14	7064.65		29.88		7034.77		NM	NM	NM	NM	NM
MW-2	03-Dec-14	7064.65		30.24		7034.41		NM	NM	NM	NM	NM
MW-2	27-Mar-15	7064.65		29.16		7035.49		NM	NM	NM	NM	NM
MW-2	08-Dec-15	7064.65		29.90		7034.75		NM	NM	NM	NM	NM
MW-2	02-Jun-16	7064.65		29.57		7035.08		NM	NM	NM	NM	NM

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 Measured	Top of Casing Elevation (ft amsl)	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Water Level Elevation (ft amsl)	Corrected GW Elev. (ft)	Temp. (° C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-2	20-Oct-16	7064.65		30.02		7034.63		NM	NM	NM	NM	NM
MW-2	26-Jan-17	7064.65		29.61		7035.04		NM	NM	NM	NM	NM
MW-2	14-Apr-17	7064.65		29.23		7035.42		NM	NM	NM	NM	NM
MW-2	14-Aug-17	7064.65		30.01		7034.64		12.91	3.907	2.22	7.31	168.4
MW-2	26-Mar-19	7064.65		29.29		7035.36		NM	NM	NM	NM	NM
MW-2	25-Sep-19	7064.65		30.66		7033.99		NM	NM	NM	NM	NM
MW-2	25-Mar-20	7064.65		30.04		7034.61		12.2	3.78	1.33	7.17	156.6
MW-2	23-Jun-20	7064.65		30.65		7034.00		13.1	3.76	1.02	7.24	149.7
MW-2	23-Sep-20	7064.65		31.16		7033.49		NM	NM	NM	NM	NM
MW-2	23-Nov-20	7064.65		31.25		7033.40		NM	NM	NM	NM	NM
MW-2	17-Mar-21	7064.65		31.12		7033.53		NM	NM	NM	NM	NM
MW-2	17-Jun-21	7064.65		31.38		7033.27		NM	NM	NM	NM	NM
MW-2	29-Sep-21	7064.65		31.76		7032.89		13.4	2.892	0.69	7.47	225.4
MW-2	14-Dec-21	7064.65		32.4		7032.25		NM	NM	NM	NM	NM
MW-2	08-Mar-22	7064.65		34.14		7030.51		12.4	3.437	8.0	7.2	168.2
MW-2	09-Jun-22	7064.65		31.72		7032.93		13.6	2.936	1.2	7.2	134.6
MW-2	28-Sep-22	7064.65		30.34		7034.31		14.6	3.048	2.0	7.2	215.1
MW-2	21-Dec-22	7064.65		21.02		7043.63		NM	NM	NM	NM	NM
MW-3	05-Mar-09	7064.01		27.16		7036.85		12.29	4.310	2.17	6.66	-28.2
MW-3	11-Sep-09	7064.01		27.99		7036.02		13.50	6.080	0.53	9.43	-163.6
MW-3	15-Jan-10	7064.01		28.22		7035.79		11.99	3.607	1.85	7.27	-222.5
MW-3	14-Oct-10	7064.01		28.54		7035.47		12.41	4.180	1.46	7.24	-53.1
MW-3	21-Jan-11	7064.01		28.60		7035.41		11.92	4.224	1.60	7.20	-122.5
MW-3	12-May-11	7064.01		28.21		7035.80		12.56	4.172	2.25	7.28	-145.8
MW-3	12-Aug-11	7064.01		29.02		7034.99		13.32	4.372	2.35	7.17	-158.5

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 Measured	Top of Casing Elevation (ft amsl)	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Water Level Elevation (ft amsl)	Corrected GW Elev. (ft)	Temp. (°C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-3	16-Nov-11	7064.01		29.14		7034.87		10.87	4.326	2.17	6.53	-105.7
MW-3	21-Feb-12	7064.01		29.07		7034.94		11.36	4.481	1.01	7.09	-118.0
MW-3	24-May-12	7064.01		29.09		7034.92		13.30	4.325	0.81	7.07	-70.3
MW-3	10-Sep-12	7064.01		29.45		7034.56		13.26	4.377	2.49	7.23	-42.7
MW-3	04-Dec-12	7064.01		29.65		7034.36		12.08	4.294	0.69	7.26	-46.8
MW-3	26-Mar-13	7064.01		29.12		7034.89		11.93	2.337	5.85	7.46	59.3
MW-3	01-Jul-13	7064.01		29.74		7034.27		14.64	4.119	11.22	7.69	-36.8
MW-3	25-Sep-13	7064.01		28.65		7035.36		12.50	7.764	2.08	7.22	-79.5
MW-3	14-Jan-14	7064.01		29.38		7034.63		12.23	4.764	1.74	NM	-59.9
MW-3	10-Sep-14	7064.01		29.39		7034.62		NM	NM	NM	NM	NM
MW-3	26-Sep-14	7064.01		13.68		7050.33		12.88	2.718	2.69	7.11	27.2
MW-3	03-Dec-14	7064.01		29.83		7034.18		NM	NM	NM	NM	NM
MW-3	27-Mar-15	7064.01		28.60		7035.41		NM	NM	NM	NM	NM
MW-3	08-Dec-15	7064.01		29.45		7034.56		NM	NM	NM	NM	NM
MW-3	02-Jun-16	7064.01		29.15		7034.86		12.71	4.064	1.58	7.08	-3.2
MW-3	20-Oct-16	7064.01		29.60		7034.41		NM	NM	NM	NM	NM
MW-3	26-Jan-17	7064.01		29.09		7034.92		11.19	4.024	1.90	7.18	11.5
MW-3	14-Apr-17	7064.01		28.70		7035.31		NM	NM	NM	NM	NM
MW-3	14-Aug-17	7064.01		29.57		7034.44		12.79	4.041	2.09	7.22	33.6
MW-3	26-Mar-19	7064.01		28.64		7035.37		NM	NM	NM	NM	NM
MW-3	25-Sep-19	7064.01		30.23		7033.78		NM	NM	NM	NM	NM
MW-3	25-Mar-20	7064.01		29.56		7034.45		NM	NM	NM	NM	NM
MW-3	23-Jun-20	7064.01		30.26		7033.75		NM	NM	NM	NM	NM
MW-3	23-Sep-20	7064.01		30.78		7033.23		NM	NM	NM	NM	NM
MW-3	23-Nov-20	7064.01		30.84		7033.17		NM	NM	NM	NM	NM
MW-3	17-Mar-21	7064.01		30.71		7033.30		NM	NM	NM	NM	NM

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 Measured	Top of Casing Elevation (ft amsl)	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Water Level Elevation (ft amsl)	Corrected GW Elev. (ft)	Temp. (° C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-3	17-Jun-21	7064.01		30.99		7033.02		NM	NM	NM	NM	NM
MW-3	29-Sep-21	7064.01		31.38		7032.63		12.9	2.847	0.57	7.18	217.6
MW-3	14-Dec-21	7064.01		32.5		7031.51		NM	NM	NM	NM	NM
MW-3	08-Mar-22	7064.01		30.60		7033.41		12.2	3.209	13.0	7.0	34.6
MW-3	09-Jun-22	7064.01		31.31		7032.70		14.3	2.809	1.37	7.2	31.5
MW-3	28-Sep-22	7064.01		29.58		7034.43		14.30	2.805	1.34	7.06	77.5
MW-3	21-Dec-22	7064.01		30.59		7033.42		NM	NM	NM	NM	NM
MW-4	05-Mar-09	7063.72		27.39		7036.33		12.36	4.760	1.72	6.58	-29.2
MW-4	06-Apr-09	7063.72		27.58		7036.14		11.87	4.599	2.06	6.75	18.0
MW-4	10-Sep-09	7063.72		28.12		7035.60		13.09	6.337	0.81	6.98	54.6
MW-4	15-Jan-10	7063.72		28.34		7035.38		11.65	3.812	2.78	7.20	-125.1
MW-4	15-Oct-10	7063.72		28.64		7035.08		12.52	4.491	1.42	7.13	42.8
MW-4	21-Jan-11	7063.72		28.72		7035.00		11.90	4.748	1.14	7.19	5.4
MW-4	12-May-11	7063.72		28.39		7035.33		13.11	4.576	2.58	7.29	-25.8
MW-4	12-Aug-11	7063.72		29.10		7034.62		13.89	4.759	3.98	6.85	74.9
MW-4	16-Nov-11	7063.72		29.26		7034.46		11.66	4.725	2.15	7.11	153.0
MW-4	21-Feb-12	7063.72		29.22		7034.50		10.27	4.927	1.02	7.02	-11.3
MW-4	24-May-12	7063.72		29.23		7034.49		13.75	4.687	1.04	6.98	39.3
MW-4	10-Sep-12	7063.72		29.58		7034.14		NM	NM	NM	NM	NM
MW-4	04-Dec-12	7063.72		29.77		7033.95		NM	NM	NM	NM	NM
MW-4	26-Mar-13	7063.72		29.33		7034.39		NM	NM	NM	NM	NM
MW-4	27-Jun-13	7063.72		29.85		7033.87		NM	NM	NM	NM	NM
MW-4	25-Sep-13	7063.72		28.96		7034.76		NM	NM	NM	NM	NM
MW-4	14-Jan-14	7063.72		29.54		7034.18		NM	NM	NM	NM	NM
MW-4	04-Apr-14	7063.72		29.54		7034.18		12.16	0.435	2.86	6.90	89.4

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 Measured	Top of Casing Elevation (ft amsl)	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Water Level Elevation (ft amsl)	Corrected GW Elev. (ft)	Temp. (° C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-4	10-Sep-14	7063.72		29.60		7034.12		NM	NM	NM	NM	NM
MW-4	03-Dec-14	7063.72		29.97		7033.75		NM	NM	NM	NM	NM
MW-4	27-Mar-15	7063.72		28.89		7034.83		NM	NM	NM	NM	NM
MW-4	08-Dec-15	7063.72		29.58		7034.14		NM	NM	NM	NM	NM
MW-4	02-Jun-16	7063.72		29.28		7034.44		NM	NM	NM	NM	NM
MW-4	20-Oct-16	7063.72		29.71		7034.01		NM	NM	NM	NM	NM
MW-4	26-Jan-17	7063.72		29.28		7034.44		NM	NM	NM	NM	NM
MW-4	14-Apr-17	7063.72		28.92		7034.80		NM	NM	NM	NM	NM
MW-4	14-Aug-17	7063.72		29.69		7034.03		13.07	4.219	1.98	7.17	109.7
MW-4	26-Mar-19	7063.72		28.99		7034.73		NM	NM	NM	NM	NM
MW-4	25-Sep-19	7063.72		30.35		7033.37		NM	NM	NM	NM	NM
MW-4	25-Mar-20	7063.72		29.78		7033.94		NM	NM	NM	NM	NM
MW-4	23-Jun-20	7063.72		30.39		7033.33		NM	NM	NM	NM	NM
MW-4	23-Sep-20	7063.72		30.88		7032.84		NM	NM	NM	NM	NM
MW-4	23-Nov-20	7063.72		30.95		7032.77		NM	NM	NM	NM	NM
MW-4	17-Mar-21	7063.72		30.88		7032.84		NM	NM	NM	NM	NM
MW-4	17-Jun-21	7063.72		31.10		7032.62		NM	NM	NM	NM	NM
MW-4	29-Sep-21	7063.72		31.47		7032.25		13.2	3.137	1.30	7.13	191.7
MW-4	14-Dec-21	7063.72		32.5		7031.22		NM	NM	NM	NM	NM
MW-4	08-Mar-22	7063.72		30.86		7032.86		12.3	3.635	9.0	7.0	102.8
MW-4	09-Jun-22	7063.72		31.44		7032.28		13.5	3.067	2.6	7.29	108.8
MW-4	28-Sep-22	7063.72		30.02		7033.70		14.6	3.008	1.32	7.1	118.6
MW-4	21-Dec-22	7063.72		30.74		7032.98		NM	NM	NM	NM	NM
MW-5	05-Mar-09	7064.79		28.24		7036.55		11.80	6.088	3.89	6.61	-17.3
MW-5	10-Sep-09	7064.79		28.87		7035.92		12.78	7.785	1.22	7.09	60.5

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 Measured	Top of Casing Elevation (ft amsl)	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Water Level Elevation (ft amsl)	Corrected GW Elev. (ft)	Temp. (°C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-5	15-Jan-10	7064.79		29.10		7035.69		11.19	4.288	1.93	7.27	-85.8
MW-5	14-Oct-10	7064.79		29.38		7035.41		12.34	4.725	1.24	7.23	98.1
MW-5	21-Jan-11	7064.79		29.47		7035.32		11.93	5.038	2.71	7.31	103.9
MW-5	12-May-11	7064.79		29.17		7035.62		12.40	4.957	2.44	7.42	-44.4
MW-5	12-Aug-11	7064.79		29.84		7034.95		13.73	4.968	3.87	6.83	189.8
MW-5	16-Nov-11	7064.79		30.00		7034.79		11.16	4.814	4.47	7.18	290.4
MW-5	21-Feb-12	7064.79		29.96		7034.83		NM	NM	NM	NM	NM
MW-5	25-May-12	7064.79		29.96		7034.83		NM	NM	NM	NM	NM
MW-5	10-Sep-12	7064.79		30.31		7034.48		NM	NM	NM	NM	NM
MW-5	04-Dec-12	7064.79		30.52		7034.27		NM	NM	NM	NM	NM
MW-5	26-Mar-13	7064.79		30.14		7034.65		NM	NM	NM	NM	NM
MW-5	27-Jun-13	7064.79		30.60		7034.19		NM	NM	NM	NM	NM
MW-5	25-Sep-13	7064.79		29.87		7034.92		NM	NM	NM	NM	NM
MW-5	14-Jan-14	7064.79		30.31		7034.48		NM	NM	NM	NM	NM
MW-5	04-Apr-14	7064.79		30.30		7034.49		NM	NM	NM	NM	NM
MW-5	10-Sep-14	7064.79		30.37		7034.42		NM	NM	NM	NM	NM
MW-5	03-Dec-14	7064.79		30.70		7034.09		NM	NM	NM	NM	NM
MW-5	27-Mar-15	7064.79		29.72		7035.07		NM	NM	NM	NM	NM
MW-5	08-Dec-15	7064.79		30.36		7034.43		NM	NM	NM	NM	NM
MW-5	02-Jun-16	7064.79		30.03		7034.76		NM	NM	NM	NM	NM
MW-5	20-Oct-16	7064.79		30.47		7034.32		NM	NM	NM	NM	NM
MW-5	26-Jan-17	7064.79		30.10		7034.69		NM	NM	NM	NM	NM
MW-5	14-Aug-17	7064.79		30.45		7034.34		Unable to sample - well obstructed				
MW-5	26-Mar-19	7064.79		29.89		7034.90		NM	NM	NM	NM	NM
MW-5	25-Sep-19	7064.79		31.06		7033.73		NM - Well Casing Damaged				
MW-5	25-Mar-20	7064.79		30.56		7034.23		NM - Well Casing Damaged				

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 Measured	Top of Casing Elevation (ft amsl)	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Water Level Elevation (ft amsl)	Corrected GW Elev. (ft)	Temp. (° C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-5	23-Jun-20	7064.79		31.09		7033.70		NM - Well Casing Damaged				
MW-5	23-Sep-20	7064.79		31.58		7033.21		NM	NM	NM	NM	NM
MW-5	23-Nov-20	7064.79		31.66		7033.13		NM	NM	NM	NM	NM
MW-5	17-Mar-21	7064.79		31.60		7033.19		NM	NM	NM	NM	NM
MW-5	17-Jun-21	7064.79		31.81		7032.98		NM	NM	NM	NM	NM
MW-5	29-Sep-21	7064.79		32.17		7032.62		NM - Well Casing Damaged				
MW-5	14-Dec-21	7064.79		NM		--		NM - Well Casing Damaged				
MW-5	08-Mar-22	7064.79		31.67		7033.12		NM - Well Casing Damaged				
MW-5	09-Jun-22	7064.79		32.16		7032.63		NM - Well Casing Damaged				
MW-5	28-Sep-22	7064.79		30.99		7033.80		NM - Well Casing Damaged				
MW-5	21-Dec-22	7064.79		31.51		7033.28		NM - Well Casing Damaged				
MW-6	05-Mar-09	7049.54		12.67		7036.87		9.21	4.967	4.30	6.53	4.6
MW-6	10-Sep-09	7049.54		13.90		7035.64		11.85	6.287	1.15	7.12	75.9
MW-6	15-Jan-10	7049.54		14.02		7035.52		10.81	3.789	2.46	7.35	-66.7
MW-6	15-Oct-10	7049.54		14.39		7035.15		12.45	4.353	1.40	7.24	20.7
MW-6	21-Jan-11	7049.54		14.42		7035.12		11.59	4.516	3.10	7.32	-37.3
MW-6	12-May-11	7049.54		14.00		7035.54		10.69	4.349	1.89	7.47	-24.9
MW-6	12-Aug-11	7049.54		14.93		7034.61		11.99	4.492	4.24	7.56	0.2
MW-6	16-Nov-11	7049.54		14.99		7034.55		12.01	4.398	2.74	6.46	182.1
MW-6	21-Feb-12	7049.54		14.90		7034.64		NM	NM	NM	NM	NM
MW-6	25-May-12	7049.54		14.92		7034.62		NM	NM	NM	NM	NM
MW-6	10-Sep-12	7049.54		NM		NM		NM - Well is Dry				
MW-6	04-Dec-12	7049.54		15.48		7034.06		NM	NM	NM	NM	NM
MW-6	26-Mar-13	7049.54		14.79		7034.75		NM	NM	NM	NM	NM
MW-6	27-Jun-13	7049.54		15.60		7033.94		NM	NM	NM	NM	NM

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 Measured	Top of Casing Elevation (ft amsl)	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Water Level Elevation (ft amsl)	Corrected GW Elev. (ft)	Temp. (° C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-6	25-Sep-13	7049.54		14.92		7034.62		NM	NM	NM	NM	NM
MW-6	14-Jan-14	7049.54		15.17		7034.37		NM	NM	NM	NM	NM
MW-6	04-Apr-14	7049.54		15.20		7034.34		NM	NM	NM	NM	NM
MW-6	10-Sep-14	7049.54		15.06		7034.48		NM	NM	NM	NM	NM
MW-6	03-Dec-14	7049.54		15.66		7033.88		NM	NM	NM	NM	NM
MW-6	27-Mar-15	7049.54		14.09		7035.45		NM	NM	NM	NM	NM
MW-6	08-Dec-15	7049.54		15.21		7034.33		NM	NM	NM	NM	NM
MW-6	02-Jun-16	7049.54		14.92		7034.62		NM	NM	NM	NM	NM
MW-6	20-Oct-16	7049.54		15.41		7034.13		NM	NM	NM	NM	NM
MW-6	26-Jan-17	7049.54		14.69		7034.85		NM	NM	NM	NM	NM
MW-6	07-Aug-17	7064.10		Plugged and Abandoned								
MW-7	06-Mar-09	7062.80		26.34		7036.46		11.40	4.951	2.17	6.50	-3.3
MW-7	10-Sep-09	7062.80		27.23		7035.57		12.61	6.288	1.03	7.05	51.0
MW-7	15-Jan-10	7062.80		27.44		7035.36		11.02	3.820	2.92	7.27	-66.3
MW-7	14-Oct-10	7062.80		27.76		7035.04		12.79	4.047	1.24	7.19	68.6
MW-7	21-Jan-11	7062.80		27.82		7034.98		10.79	4.205	2.22	7.37	42.0
MW-7	12-May-11	7062.80		27.46		7035.34		12.80	4.118	1.73	7.38	-70.4
MW-7	12-Aug-11	7062.80		28.24		7034.56		13.88	4.119	2.90	7.30	112.8
MW-7	16-Nov-11	7062.80		28.38		7034.42		11.24	4.077	2.75	6.32	168.0
MW-7	21-Feb-12	7062.80		28.31		7034.49		NM	NM	NM	NM	NM
MW-7	24-May-12	7062.80		28.34		7034.46		NM	NM	NM	NM	NM
MW-7	10-Sep-12	7062.80		28.69		7034.11		NM	NM	NM	NM	NM
MW-7	04-Dec-12	7062.80		28.86		7033.94		NM	NM	NM	NM	NM
MW-7	26-Mar-13	7062.80		28.33		7034.47		NM	NM	NM	NM	NM
MW-7	27-Jun-13	7062.80		28.97		7033.83		NM	NM	NM	NM	NM

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 Measured	Top of Casing Elevation (ft amsl)	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Water Level Elevation (ft amsl)	Corrected GW Elev. (ft)	Temp. (° C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-7	25-Sep-13	7062.80		27.78		7035.02		NM	NM	NM	NM	NM
MW-7	14-Jan-14	7062.80		28.61		7034.19		NM	NM	NM	NM	NM
MW-7	04-Apr-14	7062.80		28.62		7034.18		NM	NM	NM	NM	NM
MW-7	10-Sep-14	7062.80		28.58		7034.22		NM	NM	NM	NM	NM
MW-7	03-Dec-14	7062.80		29.02		7033.78		NM	NM	NM	NM	NM
MW-7	27-Mar-15	7062.80		27.76		7035.04		NM	NM	NM	NM	NM
MW-7	08-Dec-15	7062.80		28.62		7034.18		NM	NM	NM	NM	NM
MW-7	02-Jun-16	7062.80		28.34		7034.46		NM	NM	NM	NM	NM
MW-7	20-Oct-16	7062.80		28.79		7034.01		NM	NM	NM	NM	NM
MW-7	26-Jan-17	7062.80		28.24		7034.56		NM	NM	NM	NM	NM
MW-7	07-Aug-17	7064.10		Plugged and Abandoned								
MW-8	06-Mar-09	7063.27		27.49		7035.78		11.91	4.731	2.14	6.40	-4.4
MW-8	10-Sep-09	7063.27		28.14		7035.13		13.53	5.987	1.12	8.51	-93.2
MW-8	15-Jan-10	7063.27		28.39		7034.88		11.43	2.891	1.86	6.68	-162.2
MW-8	15-Oct-10	7063.27		28.70		7034.57		12.80	4.017	1.21	7.04	-39.1
MW-8	21-Jan-11	7063.27		28.80		7034.47		12.30	4.002	1.55	7.08	-91.2
MW-8	12-May-11	7063.27		28.52		7034.75		13.16	3.966	1.60	7.16	-121.2
MW-8	12-Aug-11	7063.27		29.19		7034.08		13.85	4.194	3.45	6.97	-148.3
MW-8	16-Nov-11	7063.27		29.35		7033.92		11.49	4.218	2.57	6.49	-115.4
MW-8	21-Feb-12	7063.27		29.31		7033.96		12.21	4.500	0.88	6.96	-116.0
MW-8	24-May-12	7063.27		29.34		7033.93		13.43	4.402	0.65	6.93	-41.2
MW-8	10-Sep-12	7063.27		29.68		7033.59		12.98	4.499	1.34	7.12	-27.3
MW-8	04-Dec-12	7063.27		29.87		7033.40		12.53	3.045	3.78	7.13	-3.1
MW-8	26-Mar-13	7063.27		29.47		7033.80		12.65	4.449	4.10	6.95	22.0
MW-8	27-Jun-13	7063.27		29.97		7033.30		14.39	6.908	8.14	7.01	-43.6

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 Measured	Top of Casing Elevation (ft amsl)	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Water Level Elevation (ft amsl)	Corrected GW Elev. (ft)	Temp. (° C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-8	25-Sep-13	7063.27		29.14		7034.13		NM	NM	NM	NM	NM
MW-8	14-Jan-14	7063.27		29.65		7033.62		NM	NM	NM	NM	NM
MW-8	04-Apr-14	7063.27		29.64		7033.63		13.14	0.424	1.70	6.80	-14.9
MW-8	04-Apr-14	7063.27		29.68		7033.59		NM	NM	NM	NM	NM
MW-8	03-Dec-14	7063.27		30.00		7033.27		NM	NM	NM	NM	NM
MW-8	27-Mar-15	7063.27		29.02		7034.25		NM	NM	NM	NM	NM
MW-8	08-Dec-15	7063.27		29.59		7033.68		NM	NM	NM	NM	NM
MW-8	02-Jun-16	7063.27		29.31		7033.96		NM	NM	NM	NM	NM
MW-8	20-Oct-16	7063.27		29.72		7033.55		NM	NM	NM	NM	NM
MW-8	26-Jan-17	7063.27		29.33		7033.94		NM	NM	NM	NM	NM
MW-8	07-Aug-17	7064.10		Plugged and Abandoned								
MW-9	06-Mar-09	7062.60		27.60		7035.00		9.47	5.418	5.12	6.39	-1.8
MW-9	06-Apr-09	7062.60		27.74		7034.86		11.86	5.174	2.24	6.72	25.2
MW-9	10-Sep-09	7062.60		28.19		7034.41		13.10	7.257	0.86	7.03	-129.8
MW-9	15-Jan-10	7062.60		28.42		7034.18		10.89	3.960	2.29	7.13	-187.4
MW-9	15-Oct-10	7062.60		28.74		7033.86		12.85	4.561	1.89	7.17	-74.4
MW-9	21-Jan-11	7062.60		28.85		7033.75		12.67	4.452	1.34	7.16	-90.8
MW-9	12-May-11	7062.60		28.61		7033.99		13.12	4.120	2.31	7.28	-94.1
MW-9	12-Aug-11	7062.60		29.22		7033.38		12.92	4.492	5.42	7.33	-132.7
MW-9	16-Nov-11	7062.60		29.41		7033.19		11.80	4.402	2.67	5.56	-75.1
MW-9	21-Feb-12	7062.60		29.39		7033.21		11.89	4.241	1.37	6.95	-127.0
MW-9	24-May-12	7062.60		29.39		7033.21		13.68	4.470	0.80	7.08	-56.4
MW-9	10-Sep-12	7062.60		29.73		7032.87		13.41	4.439	1.41	7.13	-52.2
MW-9	04-Dec-12	7062.60		29.90		7032.70		12.87	4.374	1.34	7.19	-60.5
MW-9	26-Mar-13	7062.60		29.56		7033.04		12.57	4.396	1.24	6.72	-15.8

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 Measured	Top of Casing Elevation (ft amsl)	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Water Level Elevation (ft amsl)	Corrected GW Elev. (ft)	Temp. (° C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-9	27-Jun-13	7062.60		30.00		7032.60		20.04	6.761	2.38	7.10	-48.5
MW-9	25-Sep-13	7062.60		29.28		7033.32		13.08	8.437	2.44	7.19	-84.6
MW-9	14-Jan-14	7062.60		29.68		7032.92		12.61	5.160	1.11	NM	-54.8
MW-9	04-Apr-14	7062.60		29.69		7032.91		12.89	0.407	2.81	6.89	-48.2
MW-9	10-Sep-14	7062.60		29.72		7032.88		NM	NM	NM	NM	NM
MW-9	03-Dec-14	7062.60		30.00		7032.60		NM	NM	NM	NM	NM
MW-9	27-Mar-15	7062.60		29.12		7033.48		NM	NM	NM	NM	NM
MW-9	08-Dec-15	7062.60		29.55		7033.05		NM	NM	NM	NM	NM
MW-9	02-Jun-16	7062.60		29.29		7033.31		NM	NM	NM	NM	NM
MW-9	20-Oct-16	7062.60		29.69		7032.91		NM	NM	NM	NM	NM
MW-9	26-Jan-17	7062.60		29.32		7033.28		NM	NM	NM	NM	NM
MW-9	07-Aug-17	7064.10		Plugged and Abandoned								
MW-10	09-Mar-09	7063.27		26.25		7037.02		10.51	4.572	3.44	6.62	15.6
MW-10	10-Sep-09	7063.27		27.10		7036.17		12.62	5.133	1.83	6.97	80.7
MW-10	15-Jan-10	7063.27		27.29		7035.98		10.82	3.210	2.47	7.10	-99.3
MW-10	14-Oct-10	7063.27		27.61		7035.66		11.98	3.811	1.80	7.22	119.2
MW-10	21-Jan-11	7063.27		27.66		7035.61		10.73	3.946	1.78	7.45	90.1
MW-10	12-May-11	7063.27		27.28		7035.99		12.26	3.839	1.34	7.26	84.9
MW-10	12-Aug-11	7063.27		28.08		7035.19		12.84	3.948	4.99	6.62	175.8
MW-10	16-Nov-11	7063.27		28.20		7035.07		10.81	3.912	2.81	6.17	190.7
MW-10	21-Feb-12	7063.27		28.13		7035.14		NM	NM	NM	NM	NM
MW-10	24-May-12	7063.27		28.15		7035.12		NM	NM	NM	NM	NM
MW-10	10-Sep-12	7063.27		28.54		7034.73		NM	NM	NM	NM	NM
MW-10	04-Dec-12	7063.27		28.72		7034.55		NM	NM	NM	NM	NM
MW-10	26-Mar-13	7063.27		28.20		7035.07		NM	NM	NM	NM	NM

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 Measured	Top of Casing Elevation (ft amsl)	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Water Level Elevation (ft amsl)	Corrected GW Elev. (ft)	Temp. (° C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-10	27-Jun-13	7063.27		28.79		7034.48		NM	NM	NM	NM	NM
MW-10	25-Sep-13	7063.27		27.80		7035.47		NM	NM	NM	NM	NM
MW-10	14-Jan-14	7063.27		28.44		7034.83		NM	NM	NM	NM	NM
MW-10	04-Apr-14	7063.27		28.46		7034.81		NM	NM	NM	NM	NM
MW-10	10-Sep-14	7063.27		28.48		7034.79		NM	NM	NM	NM	NM
MW-10	03-Dec-14	7063.27		28.92		7034.35		NM	NM	NM	NM	NM
MW-10	27-Mar-15	7063.27		27.70		7035.57		NM	NM	NM	NM	NM
MW-10	08-Dec-15	7063.27		28.56		7034.71		NM	NM	NM	NM	NM
MW-10	02-Jun-16	7063.27		28.22		7035.05		NM	NM	NM	NM	NM
MW-10	20-Oct-16	7063.27		28.70		7034.57		NM	NM	NM	NM	NM
MW-10	26-Jan-17	7063.27		28.19		7035.08		NM	NM	NM	NM	NM
MW-10	07-Aug-17	7064.10		Plugged and Abandoned								
MW-11	09-Mar-09	7064.10		28.33		7035.77		11.47	5.730	3.52	6.63	17.1
MW-11	10-Sep-09	7064.10		28.88		7035.22		13.32	7.785	0.67	7.02	61.2
MW-11	15-Jan-10	7064.10		29.13		7034.97		10.20	3.995	1.86	7.16	-59.2
MW-11	14-Oct-10	7064.10		29.44		7034.66		13.00	4.901	1.93	7.20	94.5
MW-11	21-Jan-11	7064.10		29.53		7034.57		11.55	4.937	1.75	7.37	216.0
MW-11	12-May-11	7064.10		29.25		7034.85		12.97	4.701	2.71	7.41	-16.0
MW-11	12-Aug-11	7064.10		29.89		7034.21		12.89	4.872	3.24	7.39	122.2
MW-11	16-Nov-11	7064.10		30.07		7034.03		11.49	4.762	3.61	7.00	307.9
MW-11	21-Feb-12	7064.10		30.04		7034.06		NM	NM	NM	NM	NM
MW-11	24-May-12	7064.10		30.06		7034.04		NM	NM	NM	NM	NM
MW-11	10-Sep-12	7064.10		30.38		7033.72		NM	NM	NM	NM	NM
MW-11	04-Dec-12	7064.10		30.58		7033.52		NM	NM	NM	NM	NM
MW-11	26-Mar-13	7064.10		30.23		7033.87		NM	NM	NM	NM	NM

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 Measured*	*Top of Casing Elevation (ft amsl)*	*Depth to NAPL (ft)*	*Depth to Water (ft)*	*NAPL Thickness (ft)*	*Water Level Elevation (ft amsl)*	*Corrected GW Elev. (ft)*	*Temp. (° C)*	*Specific Conduct. (mS)*	*Dissolved Oxygen (mg/L)*	*pH*	*ORP (mV)*
MW-11	27-Jun-13	7064.10		30.66		7033.44		NM	NM	NM	NM	NM
MW-11	25-Sep-13	7064.10		30.00		7034.10		NM	NM	NM	NM	NM
MW-11	14-Jan-14	7064.10		30.39		7033.71		NM	NM	NM	NM	NM
MW-11	04-Apr-14	7064.10		30.36		7033.74		NM	NM	NM	NM	NM
MW-11	10-Sep-14	7064.10		30.42		7033.68		NM	NM	NM	NM	NM
MW-11	03-Dec-14	7064.10		30.73		7033.37		NM	NM	NM	NM	NM
MW-11	27-Mar-15	7064.10		29.83		7034.27		NM	NM	NM	NM	NM
MW-11	08-Dec-15	7064.10		30.34		7033.76		NM	NM	NM	NM	NM
MW-11	02-Jun-16	7064.10		30.04		7034.06		NM	NM	NM	NM	NM
MW-11	20-Oct-16	7064.10		30.45		7033.65		NM	NM	NM	NM	NM
MW-11	26-Jan-17	7064.10		30.10		7034.00		NM	NM	NM	NM	NM
MW-11	07-Aug-17	7064.10		Plugged and Abandoned								

NOTES: NA NOT AVAILABLE
NM NOT MEASURED

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS -
VOLATILE ORGANICS AND PETROLEUM HYDROCARBONS
BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-GRO	TPH-DRO	TPH-MRO
		(µg/L)	*(µg/L)*	*(µg/L)*	*(µg/L)*	*(mg/L)*	*(mg/L)*	*(mg/L)*
Analytical Method		**8021B/ 8260B**	**8021B/ 8260B**	**8021B/ 8260B**	**8021B/ 8260B**	**8015B**	**8015B**	**8015B**
New Mexico WQCC		***5***	***1,000***	***700***	***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-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-1	NS - Residual NAPL Present April 2014 through December 2018							
MW-1	26-Mar-19	**340**	62	35	370	6.1	2.1	<5.0
MW-1	25-Sep-19	**88**	9.8	7.7	86	2.0	6.0	<5.0
MW-1	25-Mar-20	**220**	12	16	89	2.3	<1.0	<5.0
MW-1	23-Jun-20	**760**	17	45	280	7.7	<1.0	<5.0
MW-1	23-Sep-20	**9.7**	1.6	3.2	36	0.35	4.7	<5.0
MW-1	23-Nov-20	**110**	3.1	20	130	3.6	1.0	<5.0
MW-1	17-Mar-21	**160**	3.1	15	150	8.1	2.6	<5.0
MW-1	17-Jun-21	**14**	<2.0	<2.0	11	0.28	<1.0	<5.0
MW-1	29-Sep-21	**190**	<1.0	6.0	32	1.8	1.1	<5.0
MW-1	14-Dec-21	**54**	<2.0	2.2	10	NA	NA	NA
MW-1	08-Mar-22	**180**	<1.0	6.5	32	NA	NA	NA
MW-1	09-Jun-22	**76**	<1.0	4.4	3.0	NA	NA	NA
MW-1	28-Sep-22	**160**	4.3	6.6	39	NA	NA	NA
MW-1	21-Dec-22	**380**	<10	11	20	3.1	NA	NA
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

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS -
VOLATILE ORGANICS AND PETROLEUM HYDROCARBONS
BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-GRO	TPH-DRO	TPH-MRO
		(µg/L)	*(µg/L)*	*(µg/L)*	*(µg/L)*	*(mg/L)*	*(mg/L)*	*(mg/L)*
Analytical Method		**8021B/ 8260B**	**8021B/ 8260B**	**8021B/ 8260B**	**8021B/ 8260B**	**8015B**	**8015B**	**8015B**
New Mexico WQCC		***5***	***1,000***	***700***	***620***	***NE***	***NE***	***NE***
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-2	14-Aug-17	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
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-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-3	26-Sep-14	<1.0	<1.0	<1.0	<2.0	0.095	<1.0	<5.0
MW-3	27-Mar-15	<1.0	<1.0	<1.0	<2.0	0.056	1.1	<5.0
MW-3	15-Sep-15	<1.0	<1.0	<1.0	<1.5	0.130	<1.0	<5.0
MW-3	02-Jun-16	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-3	26-Jan-17	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-3	21-Jun-17	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-3	14-Aug-17	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
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

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS -
VOLATILE ORGANICS AND PETROLEUM HYDROCARBONS
BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE
Rio Arriba County, New Mexico

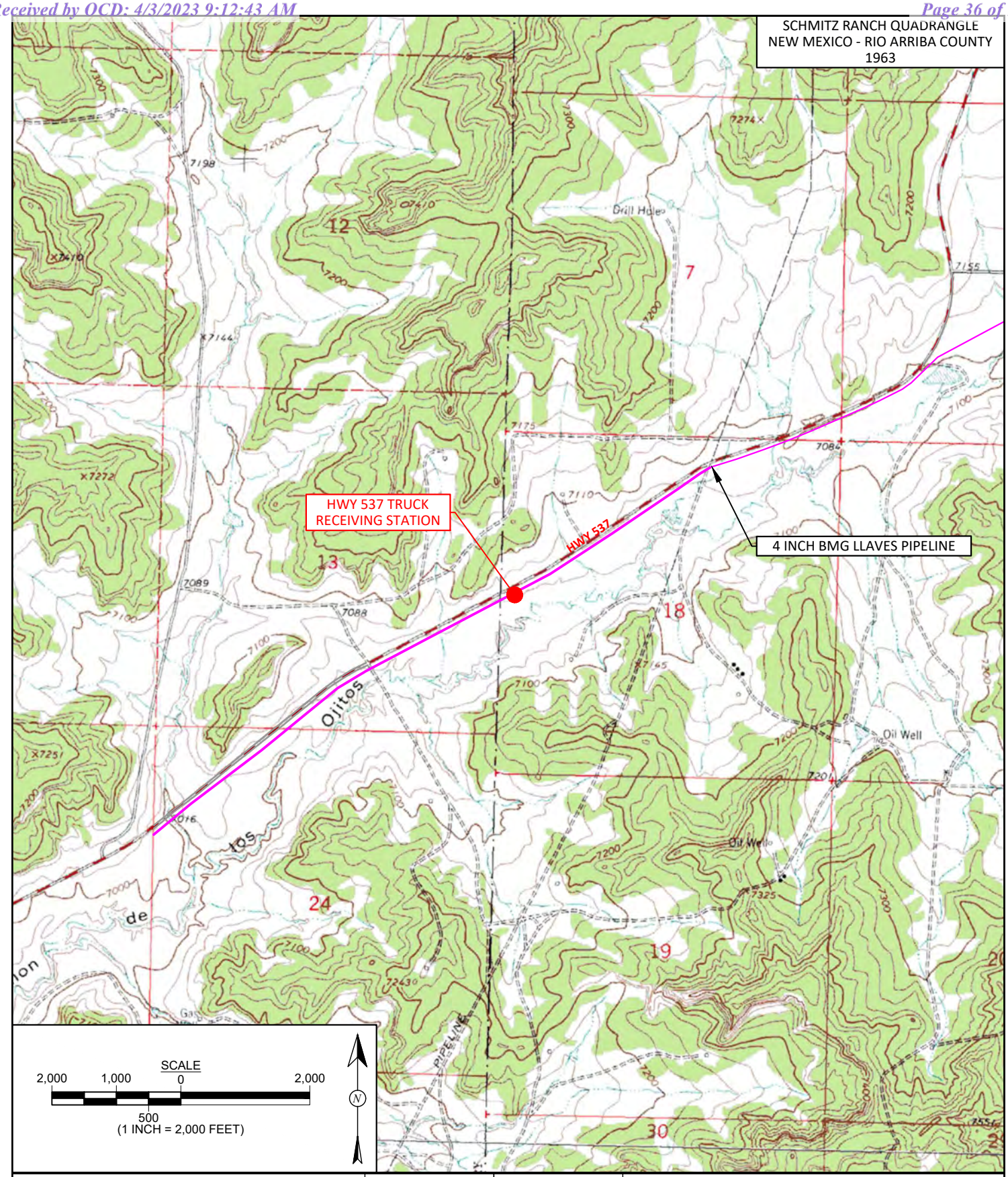
Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-GRO	TPH-DRO	TPH-MRO
		(µg/L)	*(µg/L)*	*(µg/L)*	*(µg/L)*	*(mg/L)*	*(mg/L)*	*(mg/L)*
Analytical Method		**8021B/ 8260B**	**8021B/ 8260B**	**8021B/ 8260B**	**8021B/ 8260B**	**8015B**	**8015B**	**8015B**
New Mexico WQCC		***5***	***1,000***	***700***	***620***	***NE***	***NE***	***NE***
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-4	14-Aug-17	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
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-5	14-Aug-17	Unable to Sample - Well Obstructed						
MW-6	06-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-6	07-Aug-17	Plugged and Abandoned						
MW-7	06-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-7	07-Aug-17	Plugged and Abandoned						
MW-8	06-Mar-09	**160**	170	12	350	2.1	1.5	<5.0
MW-8	07-Aug-17	Plugged and Abandoned						
MW-9	06-Mar-09	**170**	350	49	530	2.5	<1.0	<5.0
MW-9	07-Aug-17	Plugged and Abandoned						
MW-10	09-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS -
VOLATILE ORGANICS AND PETROLEUM HYDROCARBONS
BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-GRO	TPH-DRO	TPH-MRO
		(µg/L)	*(µg/L)*	*(µg/L)*	*(µg/L)*	*(mg/L)*	*(mg/L)*	*(mg/L)*
Analytical Method		**8021B/ 8260B**	**8021B/ 8260B**	**8021B/ 8260B**	**8021B/ 8260B**	**8015B**	**8015B**	**8015B**
New Mexico WQCC		***5***	***1,000***	***700***	***620***	***NE***	***NE***	***NE***
MW-10	07-Aug-17	Plugged and Abandoned						
MW-11	09-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-11	07-Aug-17	Plugged and Abandoned						
Downgradient MW-7*	09-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0

NOTES: NA = Not Analyzed
NE = Not Established
TPH = Total Petroleum Hydrocarbons
GRO = Gasoline Range Organics
DRO = Diesel Range Organics
MRO = Motor Oil Range Organics
* Monitoring Well from HWY 537 '06-'07 spill

Figures



DRAWN BY: C. Lameman	**DATE DRAWN:** January 10, 2013	**FIGURE 1**
REVISIONS BY: C. Lameman	**DATE REVISED:** February 9, 2023	**TOPOGRAPHIC SITE LOCATION MAP**
CHECKED BY: L. Cupps	**DATE CHECKED:** February 9, 2023	BENSON-MONTIN-GREER LLAVES PIPELINE HWY. 537 TRUCK RECEIVING STATION 2009 RELEASE
APPROVED BY: E. McNally	**DATE APPROVED:** February 9, 2023	SW ¼ NW ¼ SECTION 18, T25N, R3W RIO ARRIBA COUNTY, NEW MEXICO N36.39866, W107.19328

animas environmental services
Farmington, NM
animasenvironmental.com

FIGURE 2

AERIAL SITE MAP

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

animas environmental services
Farmington, NM
animasenvironmental.com

DRAWN BY:	DATE DRAWN:
C. Lameman	January 10, 2013
REVISIONS BY:	**DATE REVISED:**
C. Lameman	February 9, 2023
CHECKED BY:	**DATE CHECKED:**
L. Cupps	February 9, 2023
APPROVED BY:	**DATE APPROVED:**
E. McNally	February 9, 2023

LEGEND

- MONITORING WELL INSTALLED FEBRUARY 2009
- PLUGGED AND ABANDONED WELL (AUGUST 2017)
- SOIL BORING LOCATION (SEPTEMBER 2019)

STATE HWY. 537
PIPELINE
PROPANE TANK
EXTRACTED GROUNDWATER STORAGE TANK
CATTLE GUARD
PIG RECEIVER
MW-11
FENCE
FORMER 4" DIA. BURIED PIPE
FORMER GATE
FORMER 6" DIA. ABOVE GRADE PIPE
MW-5
FORMER METER SKID/PUMPS
MW-2
FORMER SOIL BERM
FORMER PUMPS
MW-1
LOCATION OF ⅛" CORROSION HOLE, DISCOVERED ON 01/30/09
BORING-1 (B1)
BORING-2 (B2)
MW-4
MW-10
MW-3
FORMER TRUCK LOADING STATION
MW-8
FORMER FENCE
MW-9
MW-7
MW-6
POND
FORMER PIPELINE INLET
FORMER SOIL BERM
1
2
3
4
5
6
7
8
9
10

N

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

AERIAL SOURCE: © 2021 GOOGLE EARTH PRO, AERIAL DATE: OCTOBER 5, 2016.

FIGURE 3A

GENERAL SITE MAP AND GROUNDWATER GRADIENT MAP MARCH 2022

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

animas environmental services
Farmington, NM
animasenvironmental.com

DRAWN BY:	DATE DRAWN:
C. Lameman	January 10, 2013
REVISIONS BY:	**DATE REVISED:**
C. Lameman	February 9, 2023
CHECKED BY:	**DATE CHECKED:**
L. Cupps	February 9, 2023
APPROVED BY:	**DATE APPROVED:**
E. McNally	February 9, 2023

LEGEND

- MONITORING WELL LOCATION (INSTALLED FEBRUARY 2009)
- PLUGGED AND ABANDONED WELL (AUGUST 2017)
- SOIL BORING LOCATION (SEPTEMBER 2019)
- 7034.25 GROUNDWATER ELEVATIONS IN FEET (AMSL)
- —7033— GROUNDWATER ELEVATIONS CONTOURS IN FEET (AMSL)
- —x— FENCE

NOTE: ALL MEASUREMENTS MADE ON MARCH 8, 2022. MW-2 NOT INCLUDED IN CONTOURING, DUE TO AN ANOMALY.

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

STATE HWY. 537
PIPELINE
PROPANE TANK
EXTRACTED GROUNDWATER STORAGE TANK
CATTLE GUARD
PIG RECEIVER
MW-11
FENCE
FORMER 4" DIA. BURIED PIPE
FORMER GATE
FORMER 6" DIA. ABOVE GRADE PIPE
FORMER TANKS 1-8
FORMER METER SKID/PUMPS
FORMER PUMPS
FORMER SOIL BERM
FORMER PIPELINE INLET
FORMER TRUCK LOADING STATION
LOCATION OF ⅛" CORROSION HOLE, DISCOVERED ON 01/30/09
GROUNDWATER GRADIENT BETWEEN MW-2 AND MW-4 IS 0.02 FT/FT
MW-1 7034.25
MW-2 7030.51
MW-3 7033.41
MW-4 7032.86
MW-5 7033.12
MW-6
MW-7
MW-8
MW-9
MW-10
BORING-1 (B1)
BORING-2 (B2)
POND
7032
7033
7034

FIGURE 3B

GENERAL SITE MAP AND GROUNDWATER GRADIENT MAP JUNE 2022

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

animas environmental services
Farmington, NM
animasenvironmental.com

DRAWN BY:	DATE DRAWN:
C. Lameman	January 10, 2013
REVISIONS BY:	**DATE REVISED:**
C. Lameman	February 9, 2023
CHECKED BY:	**DATE CHECKED:**
L. Cupps	February 9, 2023
APPROVED BY:	**DATE APPROVED:**
E. McNally	February 9, 2023

LEGEND

- MONITORING WELL LOCATION (INSTALLED FEBRUARY 2009)
- PLUGGED AND ABANDONED WELL (AUGUST 2017)
- SOIL BORING LOCATION (SEPTEMBER 2019)
- 7034.00 GROUNDWATER ELEVATIONS IN FEET (AMSL)
- -7033.20- GROUNDWATER ELEVATIONS CONTOURS IN FEET (AMSL)
- FENCE

NOTE: ALL MEASUREMENTS MADE ON JUNE 9, 2022.

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

FIGURE 3C

GENERAL SITE MAP AND GROUNDWATER GRADIENT MAP SEPTEMBER 2022

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

animas environmental services
Farmington, NM
animasenvironmental.com

DRAWN BY:	DATE DRAWN:
C. Lameman	January 10, 2013
REVISIONS BY:	**DATE REVISED:**
C. Lameman	February 9, 2023
CHECKED BY:	**DATE CHECKED:**
L. Cupps	February 9, 2023
APPROVED BY:	**DATE APPROVED:**
E. McNally	February 9, 2023

LEGEND

- MONITORING WELL LOCATION (INSTALLED FEBRUARY 2009)
- PLUGGED AND ABANDONED WELL (AUGUST 2017)
- SOIL BORING LOCATION (SEPTEMBER 2019)
- 7032.89 GROUNDWATER ELEVATIONS IN FEET (AMSL)
- -7034.00- GROUNDWATER ELEVATIONS CONTOURS IN FEET (AMSL)
- —— x —— FENCE

NOTE: ALL MEASUREMENTS MADE ON SEPTEMBER 28, 2022.

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

STATE HWY. 537
PIPELINE
PROPANE TANK
EXTRACTED GROUNDWATER STORAGE TANK
CATTLE GUARD
PIG RECEIVER
MW-11
FENCE
FORMER 4" DIA. BURIED PIPE
FORMER GATE
FORMER 6" DIA. ABOVE GRADE PIPE
FORMER PIPELINE INLET
FORMER 4" DIA. BURIED PIPE
FORMER GATE
FORMER TANKS 1-8
FORMER METER SKID/PUMPS
FORMER SOIL BERM
FORMER PUMPS
FORMER SOIL BERM
FORMER TRUCK LOADING STATION
LOCATION OF ⅛" CORROSION HOLE, DISCOVERED ON 01/30/09
BORING-1 (B1)
BORING-2 (B2)
FORMER FENCE
POND
MW-1 7034.08
MW-2 7034.31
MW-3 7034.43
MW-4 7033.70
MW-5 7033.80
MW-6
MW-7
MW-8
MW-9
MW-10
GROUNDWATER GRADIENT IS 0.007 FT/FT
7033.60
7033.80
7034.00
7034.20
7034.40

FIGURE 3D

GENERAL SITE MAP AND GROUNDWATER GRADIENT MAP DECEMBER 2022

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

animas environmental services
Farmington, NM
animasenvironmental.com

DRAWN BY:	DATE DRAWN:
C. Lameman	January 10, 2013
REVISIONS BY:	**DATE REVISED:**
C. Lameman	February 9, 2023
CHECKED BY:	**DATE CHECKED:**
L. Cupps	February 9, 2023
APPROVED BY:	**DATE APPROVED:**
E. McNally	February 9, 2023

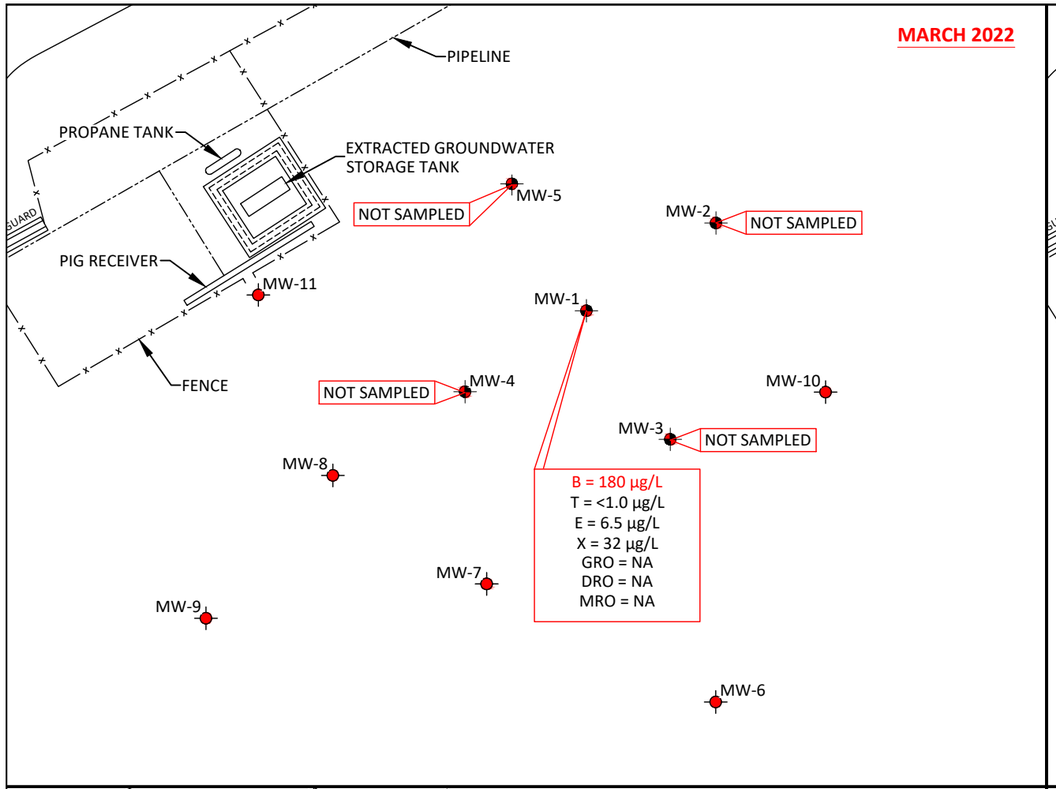
LEGEND

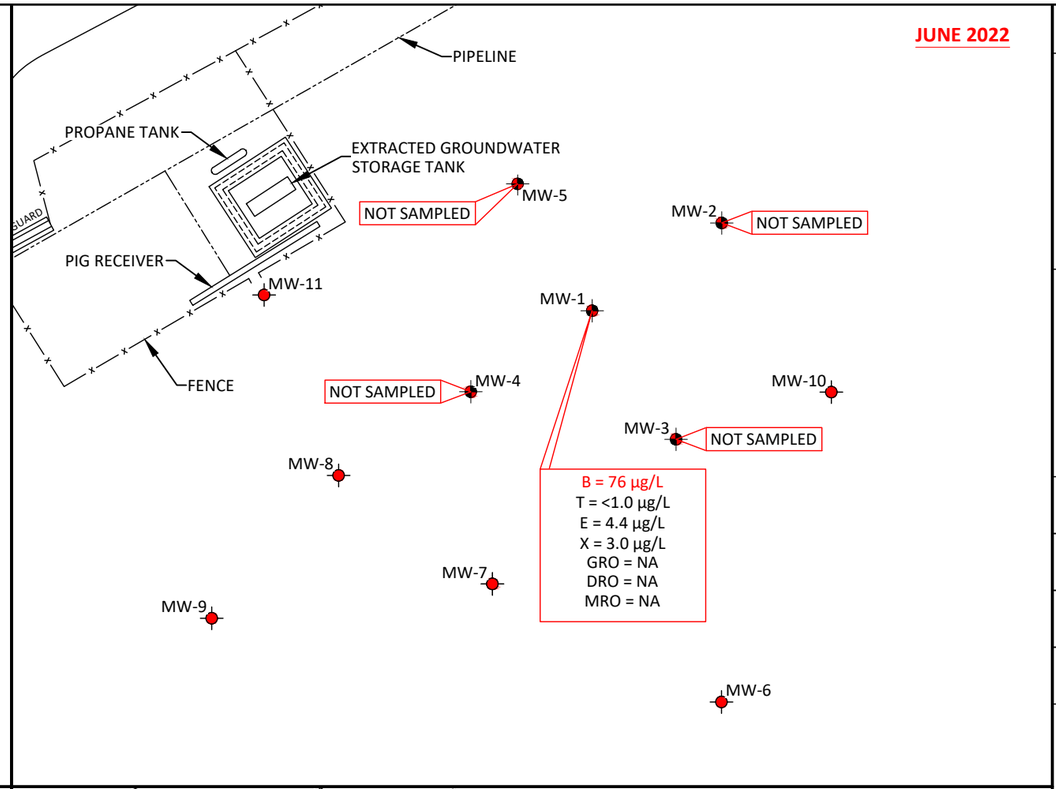
- MONITORING WELL LOCATION (INSTALLED FEBRUARY 2009)
- PLUGGED AND ABANDONED WELL (AUGUST 2017)
- SOIL BORING LOCATION (SEPTEMBER 2019)
- 7032.25 GROUNDWATER ELEVATIONS IN FEET (AMSL)
- −7032.00− GROUNDWATER ELEVATIONS CONTOURS IN FEET (AMSL)
- FENCE

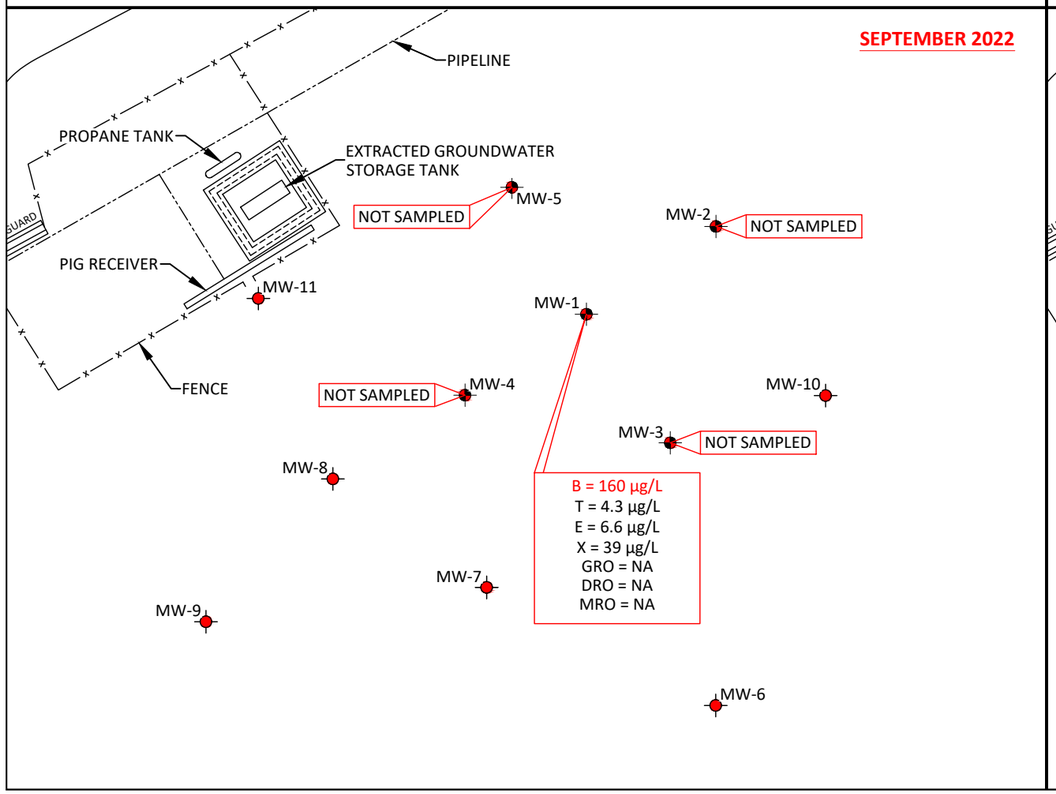
NOTE: ALL MEASUREMENTS MADE ON DECEMBER 1, 2022. MW-2 WAS NOT INCLUDED IN CONTOURING DUE TO ANOMALY.

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

STATE HWY. 537
PIPELINE
PROPANE TANK
EXTRACTED GROUNDWATER STORAGE TANK
CATTLE GUARD
PIG RECEIVER
MW-11
FENCE
FORMER 4" DIA. BURIED PIPE
FORMER GATE
FORMER 6" DIA. ABOVE GRADE PIPE
FORMER TANKS 1-8
FORMER METER SKID/PUMPS
FORMER PUMPS
FORMER SOIL BERM
FORMER PIPELINE INLET
FORMER TRUCK LOADING STATION
LOCATION OF ⅛" CORROSION HOLE, DISCOVERED ON 01/30/09
GROUNDWATER GRADIENT BETWEEN MW-1 AND MW-4 IS 0.003 FT/FT
BORING-1 (B1)
BORING-2 (B2)
MW-1 7033.15
MW-2 7043.63
MW-3 7033.42
MW-4 7032.98
MW-5 7033.28
MW-6
MW-7
MW-8
MW-9
MW-10
7033.00
7033.20
7033.40
POND







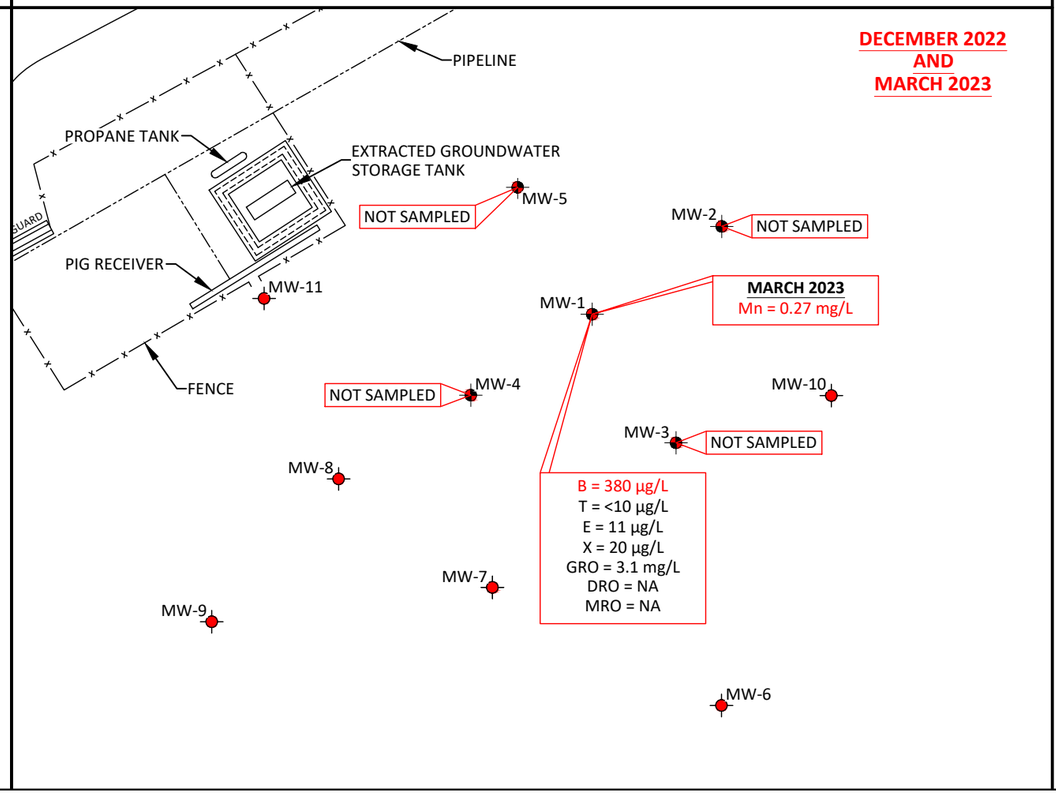


FIGURE 4

2022 GROUNDWATER CONTAMINANT CONCENTRATIONS MAP

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

animas environmental services
Farmington, NM
animasenvironmental.com

DRAWN BY:	DATE DRAWN:
C. Lameman	January 10, 2013
REVISIONS BY:	**DATE REVISED:**
C. Lameman	February 8, 2022
CHECKED BY:	**DATE CHECKED:**
L. Cupps	February 8, 2022
APPROVED BY:	**DATE APPROVED:**
E. McNally	February 8, 2022

LEGEND

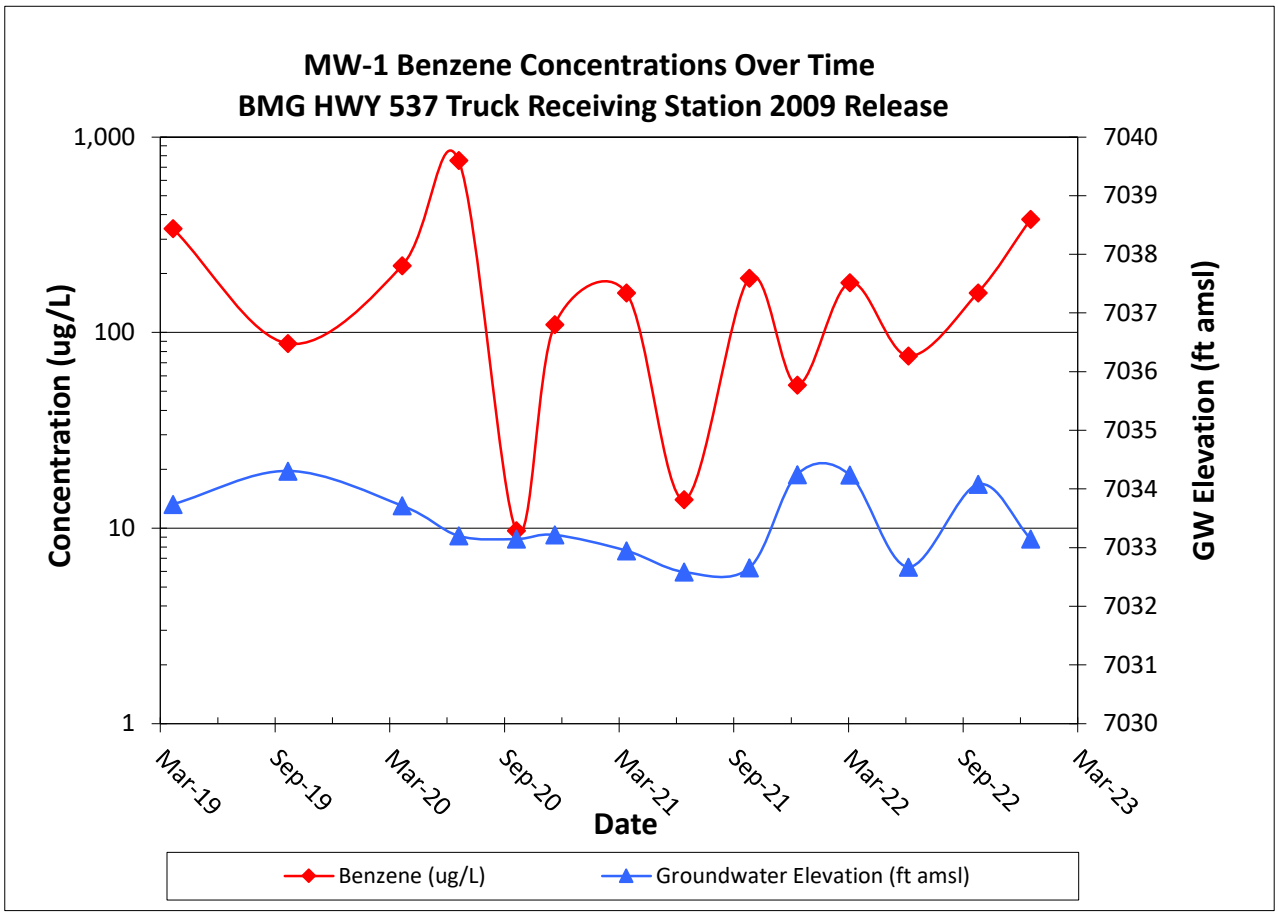
●	MONITORING WELL LOCATION (INSTALLED FEBRUARY 2009)
●	PLUGGED AND ABANDONED WELL (AUGUST 2017)
x	FENCE
B	BENZENE
T	TOLUENE
E	ETHYL-BENZENE
X	XYLENES
GRO	GASOLINE RANGE ORGANICS
DRO	DIESEL RANGE ORGANICS
MRO	MOTOR OIL RANGE ORGANICS
Mn	MANGANESE
NA	NOT ANALYZED
µg/L	MICROGRAMS PER LITER (ppb)
mg/L	MILLIGRAMS PER LITER (ppm)
<	BELOW DETECTION LIMIT

NOTE: ALL SAMPLES COLLECTED ON MARCH 8, JUNE 9, SEPTEMBER 28, AND DECEMBER 21, 2022 AND MARCH 15, 2023. ANALYZED PER EPA METHOD 8021B AND 8015D.

N

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

Graphs


MW-1 Benzene Concentrations Over Time
BMG HWY 537 Truck Receiving Station 2009 Release
Concentration (ug/L)
1,000
100
10
1
GW Elevation (ft amsl)
7040
7039
7038
7037
7036
7035
7034
7033
7032
7031
7030
Mar-19
Sep-19
Mar-20
Sep-20
Mar-21
Sep-21
Mar-22
Sep-22
Mar-23
Date
Benzene (ug/L)
Groundwater Elevation (ft amsl)

Appendix

DEPTH TO GROUNDWATER MEASUREMENT FORM

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

Project: Groundwater Monitoring
Site: BMG
Location: Hwy 537 2009 Release
Tech: [signature]

Project No.:
Date: 03/08/2022
Time: 10:50
Form: 1 of 1

Well ID	Time	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Notes / Observations
MW-1	13:00	30.41	30.42	<.01	2" Well SHEEN - sock replaced
MW-2	11:09		34.14		2" Well
MW-3	11:47		30.60		2" Well
MW-4	12:21		30.86		2" Well
MW-5	10:57		31.67		2" Well

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

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-5

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

Site: BMG
Location: 2009 Release
Project: Groundwater Monitoring and Sampling
Sampling Technician: JD
Purge / No Purge: N/A
Well Diameter (in): 2

Project No.:
Date: 03-08-2022
Arrival Time: 10:54
Air Temp: 28° Sunny
T.O.C. Elev. (ft): 7064.79
Total Well Depth (ft): ??

Initial D.T.W. (ft): ~~30.07~~ Time: 10:57 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 31.67 Time: 11:00 *(taken prior to purging well)*
Final D.T.W. (ft): 31.67 Time: 11:00 *(taken after sample collection)*
If NAPL Present: D.T.P.: — D.T.W.: — Thickness: — Time:

Water Quality Parameters - Recorded During Well Purging

YSI # 1

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
	N/A						

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

Disposal of Purged Water: N/A
Collected Samples Stored on Ice in Cooler: N/A
Chain of Custody Record Complete: N/A
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: MW has been damaged by cattle in area no water quality readings.

MONITORING WELL SAMPLING RECORD

Monitor Well No: **MW-2**

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

Site: BMG
Location: 2009 Release
Project: Groundwater Monitoring and Sampling
Sampling Technician: SO
Purge / No Purge: Purge
Well Diameter (in): 2

Project No.:
Date: 03/08/2022
Arrival Time: 11:05
Air Temp: 28° Sunny
T.O.C. Elev. (ft): 7064.65
Total Well Depth (ft): ~44.00

Initial D.T.W. (ft): 34.14 Time: 11:09 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 34.14 Time: 11:10 *(taken prior to purging well)*
Final D.T.W. (ft): 31.26 Time: 11:39 *(taken after sample collection)*
If NAPL Present: D.T.P.:_____ D.T.W.:_____ Thickness:_____ Time:_____

Water Quality Parameters - Recorded During Well Purging

YSI # 1

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
11:18	12.8	3522	8.4	7.2	150.6	.25	clear NO odor
11:23	12.6	3471	15.8	7.2	152.3	1 gallon	S.A.A
11:26	12.6	2100	34.3	7.4	169.2	2 gallon	Tan NO odor Turbid
11:30	11.8	3351	8.2	7.2	177.4	3 gallons	S.A.A
11:34	12.4	3437	8.0	7.2	168.2	4 gallons	S.A.A

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

Disposal of Purged Water: N/A
Collected Samples Stored on Ice in Cooler: N/A
Chain of Custody Record Complete: N/A
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: Calculated purge 4.8 gallons ≈ 5.0

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-3

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

Site: BMG
Location: 2009 Release
Project: Groundwater Monitoring and Sampling
Sampling Technician: JD
Purge / No Purge: Purge
Well Diameter (in): 2

Project No.:
Date: 11-03
Arrival Time: 3-08-2022
Air Temp: 28° Sunny
T.O.C. Elev. (ft): 7064.01
Total Well Depth (ft): 43.00

Initial D.T.W. (ft): 30.60 Time: 11:47 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 30.60 Time: 11:48 *(taken prior to purging well)*
Final D.T.W. (ft): 31.02 Time: 12:08 *(taken after sample collection)*
If NAPL Present: D.T.P.: D.T.W.: Thickness: Time:

Water Quality Parameters - Recorded During Well Purging

YSI # 1

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
11:48	13.9	3453	5.1	7.0	88.1	.25	Clear no odor
11:51	12.8	3309	4.3	7.0	34.6	1 gal	Tan No odor
11:54	12.0	3204	8.7	7.1	30.4	2 gal	S.AA
11:57	12.2	3204	5.1	7.1	26.8	3 gal	S.AA
12:01	12.7	3209	13.0	7.0	34.6	4 gal	S.AA,

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

Disposal of Purged Water: N/A
Collected Samples Stored on Ice in Cooler: N/A
Chain of Custody Record Complete: N/A
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 St., Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: BMG
Location: 2009 Release
Project: Groundwater Monitoring and Sampling
Sampling Technician: JO
Purge / No Purge: Purge
Well Diameter (in): 2

Project No.:
Date: 03-08-2022
Arrival Time: 12:15
Air Temp: 28° Sunny
T.O.C. Elev. (ft): 7063.72
Total Well Depth (ft): 43.80

Initial D.T.W. (ft): 30.86 Time: 12:21 (taken at initial gauging of all wells)
Confirm D.T.W. (ft): 30.86 Time: 12:22 (taken prior to purging well)
Final D.T.W. (ft): 30.95 Time: 12:45 (taken after sample collection)
If NAPL Present: D.T.P.:_____ D.T.W.:_____ Thickness:_____ Time:_____

Water Quality Parameters - Recorded During Well Purging

YSI #___

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
12:28	12.6	3644	4.2	7.0	61.7	.25	clear no odor
12:32	12.5	3645	8.1	7.0	93.1	1 gallon	Brown No odor
12:36	12.5	3639	8.1	7.0	110.8	2 gallon	S.A.A.
12:41	12.5	3637	5.7	7.0	124.7	3 gallon	S.A.A
12:44	12.3	3635	7.0	7.0	102.8	4 gallon	S.A.A.

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

Disposal of Purged Water: N/A
Collected Samples Stored on Ice in Cooler: N/A
Chain of Custody Record Complete: N/A
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-1

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

Site: BMG
Location: 2009 Release
Project: Groundwater Monitoring and Sampling
Sampling Technician:
Purge / No Purge: Purge
Well Diameter (in): 2

Project No.:
Date: 03-08-2022
Arrival Time: 12:53
Air Temp: 28° Sunny
T.O.C. Elev. (ft): 7064.66
Total Well Depth (ft): 39.36

Initial D.T.W. (ft): 30.42 Time: 13:00 (taken at initial gauging of all wells)
Confirm D.T.W. (ft): 30.42 Time: 13:01 (taken prior to purging well)
Final D.T.W. (ft): 31.57 Time: 13:22 (taken after sample collection)
If NAPL Present: D.T.P.: 30.41 D.T.W.: 30.42 Thickness: .01 Time: 13:00

Water Quality Parameters - Recorded During Well Purging

YSI #___

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
	NO WATER QUALITY READINGS DUE TO SHEEN						
						Samples Collected	
13:27							

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

USEPA Method 8021 for BTEX and 8015 for TPH (GRO/DRO/MRO) -
(5 - HgCl2 40 mL VOAs and 1 - 125 mL Amber glass non-preserve)

Disposal of Purged Water: On onsite storage tank
Collected Samples Stored on Ice in Cooler: yes
Chain of Custody Record Complete: yes
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: Absorbent sock has been changed out.

DEPTH TO GROUNDWATER MEASUREMENT FORM

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

Project: Groundwater Monitoring
Site: BMG
Location: Hwy 537 2009 Release
Tech: JG

Project No.:
Date: 6-9-2022
Time: 14:35
Form: 1 of 1

Well ID	Time	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Notes / Observations
MW-1	16:28	—	31.99		2" Well SHEEN - Sock placed
MW-2	14:54	—	31.72		2" Well
MW-3	15:45	—	31.31		2" Well
MW-4	16:56	—	31.44		2" Well
MW-5					2" Well

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 St., Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: BMG
Location: 2009 Release
Project: Groundwater Monitoring and Sampling
Sampling Technician: JD
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 31.99 **Time:** 16:28 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 31.99 **Time:** 16:28 *(taken prior to purging well)*
Final D.T.W. (ft): 32.14 **Time:** 16:43 *(taken after sample collection)*
If NAPL Present: D.T.P.: — **D.T.W.:** — **Thickness:** — **Time:** —

Project No.:
Date: 6-9-22
Arrival Time: 16:20
Air Temp: 88° Sunny
T.O.C. Elev. (ft): 7064.66
Total Well Depth (ft): 39.41

Water Quality Parameters - Recorded During Well Purging

YSI #___

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
16:29	NO WATER QUALITY READINGS DUE TO SHEEN						
16:49						Samples Collected	

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

USEPA Method 8021 for BTEX and 8015 for TPH (GRO/DRO/MRO) -
(5 - HgCl2 40 mL VOAs and 1 - 125 mL Amber glass non-preserve)

Disposal of Purged Water: Onsite Storage Tank
Collected Samples Stored on Ice in Cooler: yes
Chain of Custody Record Complete: yes
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: Calculated purge 3.6 gallons

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-2

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

Site: BMG
Location: 2009 Release
Project: Groundwater Monitoring and Sampling
Sampling Technician: JD
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 31.72 Time: 1454 (taken at initial gauging of all wells)
Confirm D.T.W. (ft): 31.72 Time: 1454 (taken prior to purging well)
Final D.T.W. (ft): 31.75 Time: 15:29 (taken after sample collection)
If NAPL Present: D.T.P.: — D.T.W.: — Thickness: — Time:

Project No.:
Date: 6-9-2022
Arrival Time: 1450
Air Temp: 86° Sunny
T.O.C. Elev. (ft): 7064.65
Total Well Depth (ft): ~44.00

Water Quality Parameters - Recorded During Well Purging

YSI # 2

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
15:04	15.1	3137	.82	7.2	150.5	Initial	Brown No odor
15:09	14.1	3042	.98	7.2	145.5	1 gallon	Brown No odor
15:13	13.6	2946	1.23	7.3	138.5	2 gallon	S.A.A
15:17	13.4	2927	1.29	7.3	138.1	3 gallon	S.A.A.
15:21	13.5	2929	1.81	7.2	139.6	4 gallon	S.A.A.
15:24	13.6	2936	1.15	7.2	134.6	5 gallon	S.A.A

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

Disposal of Purged Water: On Ground - No draining to SW outlet
Collected Samples Stored on Ice in Cooler: N/A
Chain of Custody Record Complete: N/A
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: Calculated Purge ≈ 6.0 gallons

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-3

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

Site: BMG
Location: 2009 Release
Project: Groundwater Monitoring and Sampling
Sampling Technician: JO
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 31.31 Time: 15:45 (taken at initial gauging of all wells)
Confirm D.T.W. (ft): 31.31 Time: 15:46 (taken prior to purging well)
Final D.T.W. (ft): 31.79 Time: 16:20 (taken after sample collection)
If NAPL Present: D.T.P.: D.T.W.: Thickness: Time:

Project No.:
Date: ~~7-5-20~~ 6-9-2022
Arrival Time: 15:39
Air Temp: 88° Sunny
T.O.C. Elev. (ft): 7064.01
Total Well Depth (ft): 44.00

Water Quality Parameters - Recorded During Well Purging

YSI # 2

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
15:49	14.5	2834	.93	7.1	86.0	initial	Clear no odor
15:55	13.9	2795	.58	7.1	43.7	1 gallon	Turbid no odor
16:01	13.8	2745	1.87	7.2	32.5	2 gallon	S.A.A
16:07	14.0	2895	1.87	7.2	35.2	3 gallon	S.A.A.
16:12	13.8	2760	.81	7.1	31.3	4 gallon	S.A.A.
16:17	14.3	2809	1.37	7.2	31.5	5 gallon	S.A.A

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

Disposal of Purged Water: On ground - No discharge to SW drain.
Collected Samples Stored on Ice in Cooler: N/A
Chain of Custody Record Complete: N/A
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: Calculated Purge 6.2 gallons

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-4

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

Site: BMG
Location: 2009 Release
Project: Groundwater Monitoring and Sampling
Sampling Technician: JD
Purge / No Purge: Purge
Well Diameter (in): 2

Project No.:
Date: 6-9-2022
Arrival Time: 16:49
Air Temp: 90° Sunny
T.O.C. Elev. (ft): 7063.72
Total Well Depth (ft): ~43.00

Initial D.T.W. (ft): 31.44 Time: 16:56 (taken at initial gauging of all wells)
Confirm D.T.W. (ft): 31.44 Time: 16:56 (taken prior to purging well)
Final D.T.W. (ft): 31.57 Time: 17:22 (taken after sample collection)
If NAPL Present: D.T.P.: — D.T.W.: — Thickness: — Time: —

Water Quality Parameters - Recorded During Well Purging

YSI # 2

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
16:58	15.2	3271	1.93	7.1	97.2	initial	Clear - no odor
17:02	13.7	3117	1.02	7.1	93.1	1 gallon	Turbid no odor
17:06	13.5	3085	1.21	7.2	99.0	2 gallon	S.A.A.
17:09	13.9	3118	1.16	7.1	99.8	3 gallon	S.A.A.
17:14	13.4	3073	2.14	7.2	102.5	4 gallon	S.A.A.
17:20	13.5	3067	260	7.29	108.8	5 gallon	S.A.A.

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

Disposal of Purged Water: On ground - No drainage to SW outlet
Collected Samples Stored on Ice in Cooler: N/A
Chain of Custody Record Complete: N/A
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: Calculated Purge 5.0 gallons

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-5

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

Site: BMG
Location: 2009 Release
Project: Groundwater Monitoring and Sampling
Sampling Technician: JD
Purge / No Purge: N/A
Well Diameter (in): 2
Initial D.T.W. (ft): 32.16 Time: 14:50 (taken at initial gauging of all wells)
Confirm D.T.W. (ft): 32.16 Time: 1450 (taken prior to purging well)
Final D.T.W. (ft): 32.16 Time: 14:50 (taken after sample collection)
If NAPL Present: D.T.P.:_____ D.T.W.:_____ Thickness:_____ Time:_____

Project No.:
Date: 6-9-2022
Arrival Time: 14:40
Air Temp: 87° Sunny
T.O.C. Elev. (ft): 7064.79
Total Well Depth (ft):

Water Quality Parameters - Recorded During Well Purging

YSI #___

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
14:50	NO WATER QUALITY READINGS DUE TO WELL HOUSING BENT.						

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

Disposal of Purged Water: N/A
Collected Samples Stored on Ice in Cooler: N/A
Chain of Custody Record Complete: N/A
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: Purge - N/A

DEPTH TO GROUNDWATER MEASUREMENT FORM

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

Project: Groundwater Monitoring
Site: BMG
Location: Hwy 537 2009 Release
Tech: JD

Project No.:
Date: 9-28-22
Time: 16:00
Form: 1 of 1

Well ID	Time	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Notes / Observations
MW-1			30.58		2" Well
MW-2			30.34		2" Well
MW-3			29.58		2" Well
MW-4			30.02		2" Well
MW-5			30.99		2" Well

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 St., Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: BMG
Location: 2009 Release
Project: Groundwater Monitoring and Sampling
Sampling Technician: JD
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 30.58 Time: 17:46 (taken at initial gauging of all wells)
Confirm D.T.W. (ft): 30.58 Time: 17:47 (taken prior to purging well)
Final D.T.W. (ft): 30.75 Time: 18:01 (taken after sample collection)
If NAPL Present: D.T.P.:_____ D.T.W.:_____ Thickness:_____ Time:_____

Project No.:
Date: 9-28-22
Arrival Time: 17:28
Air Temp: 70° Sunny
T.O.C. Elev. (ft): 7064.66
Total Well Depth (ft): 39.48

Water Quality Parameters - Recorded During Well Purging

YSI # 2

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
17:48						Hydrocarbon sheen	
18:03						Samples collected	

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

USEPA Method 8021 for BTEX and 8015 for TPH (GRO/DRO/MRO) -
(5 - HgCl2 40 mL VOAs and 1 - 125 mL Amber glass non-preserve)

Disposal of Purged Water: Onsite Storage Tank
Collected Samples Stored on Ice in Cooler: yes
Chain of Custody Record Complete: yes
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: 4.0 gallons purge

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-2

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

Site: BMG
Location: 2009 Release
Project: Groundwater Monitoring and Sampling
Sampling Technician: JD
Purge / No Purge:
Well Diameter (in): 2
Initial D.T.W. (ft): 30.34 Time: 1614 (taken at initial gauging of all wells)
Confirm D.T.W. (ft): 30.34 Time: 16:14 (taken prior to purging well)
Final D.T.W. (ft): 30.38 Time: 16:51 (taken after sample collection)
If NAPL Present: D.T.P.: D.T.W.: Thickness: Time:

Project No.:
Date: 9.28.22
Arrival Time: 16:11
Air Temp: 73° Sunny
T.O.C. Elev. (ft): 7064.65
Total Well Depth (ft): ~44.00

Water Quality Parameters - Recorded During Well Purging

YSI # 2

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
16:20	18.5	2944	1.68	7.1	219.7	.25	Brown No odor
16:25	16.2	2829	1.68	7.2	217.5	1 gallon	S.A.A
16:29	15.4	2793	2.1	7.2	217.0	2 gallon	S.A.A
16:33	15.1	2783	1.9	7.2	218.5	3 gallon	S.A.A
16:36	14.9	2913	3.2	7.3	215.5	4 gallon	Clear No odor
16:39	15.1	2930	2.1	7.2	215.8	5 gallon	Turbid No odor
16:44	14.7	3065	2.2	7.2	215.1	6 gallon	S.A.A
16:48	14.6	3048	2.0	7.2	215.1	7 gallon	S.A.A

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

Disposal of Purged Water: On ground
Collected Samples Stored on Ice in Cooler: N/A
Chain of Custody Record Complete: N/A
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: Calculated Purge 6.6 gallon ≈ 7.0 gallons

MONITORING WELL SAMPLING RECORD

Monitor Well No: **MW-3**

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

Site: BMG
Location: 2009 Release
Project: Groundwater Monitoring and Sampling
Sampling Technician: JD
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 29.58 Time: 16:59 (taken at initial gauging of all wells)
Confirm D.T.W. (ft): 29.58 Time: 16:59 (taken prior to purging well)
Final D.T.W. (ft): 30.01 Time: 17:24 (taken after sample collection)
If NAPL Present: D.T.P.: D.T.W.: Thickness: Time:

Project No.:
Date: 9-28-22
Arrival Time: 16:50
Air Temp: 73° Sunny
T.O.C. Elev. (ft): 7064.01
Total Well Depth (ft):

Water Quality Parameters - Recorded During Well Purging

YSI # 2

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
17:04	15.1	2916	.63	7.1	177.9	.25	Clear N/A odor
17:07	14.7	2850	1.07	7.0	147.1	1 gallon	Turbid N/A odor
17:09	14.5	2814	.63	7.1	117.1	2 gallon	S.A.A.
17:13	14.5	2814	1.15	7.07	91.0	3 gallon	Tan N/A odor
17:17	14.4	2802	1.14	7.09	80.1	4 gallon	S.A.A.
17:21	14.3	2805	1.34	7.06	77.5	5 gallon	S.A.A.

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

Disposal of Purged Water: On ground
Collected Samples Stored on Ice in Cooler: N/A
Chain of Custody Record Complete: N/A
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: Calculated Purge 6.8 & 7.0

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-4

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

Site: BMG
Location: 2009 Release
Project: Groundwater Monitoring and Sampling
Sampling Technician:
Purge / No Purge:
Well Diameter (in): 2
Initial D.T.W. (ft): 30.02 Time: 18:22 (taken at initial gauging of all wells)
Confirm D.T.W. (ft): 30.02 Time: 18:23 (taken prior to purging well)
Final D.T.W. (ft): 30.15 Time: 16:36 (taken after sample collection)
If NAPL Present: D.T.P.: D.T.W.: Thickness: Time:

Project No.:
Date: 9-28-22
Arrival Time: 18:20
Air Temp: 69° Sunny - Sunset
T.O.C. Elev. (ft): 7063.72
Total Well Depth (ft): 43.75

Water Quality Parameters - Recorded During Well Purging

YSI #

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
18:29	15.5	3057	1.0	7.1	110.7	5	clear no odor
18:32	14.8	3014	1.27	7.0	114.3	1 gallon	Turbid
18:35	14.6	3008	1.32	7.1	118.6	2 gal	S.A.A

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

Disposal of Purged Water: On ground
Collected Samples Stored on Ice in Cooler: N/A
Chain of Custody Record Complete: N/A
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: 7.0 gallon calculated purge

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: MW-5	624 E Comanche St., Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: BMG
Location: 2009 Release
Project: Groundwater Monitoring and Sampling
Sampling Technician:
Purge / No Purge: No Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 30.99 Time: 16:09 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 30.99 Time: 16:10 *(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:

Project No.:
Date: 9-28-22
Arrival Time: 16:07
Air Temp: 73° Sunny
T.O.C. Elev. (ft): 7064.79
Total Well Depth (ft):

Water Quality Parameters - Recorded During Well Purging

YSI # 2

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations

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

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:

DEPTH TO GROUNDWATER MEASUREMENT FORM

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

Project: Groundwater Monitoring
Site: BMG
Location: Hwy 537 2009 Release
Tech: JO

Project No.:
Date: 12-21-22
Time: 10:39
Form: 1 of 1

Well ID	Time	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Notes / Observations
MW-1	11:10		31.31		2" Well
MW-2	11:07		31.02		2" Well
MW-3	11:06		30.59		2" Well
MW-4	11:03		30.74		2" Well
MW-5	10:52		31.51		2" Well

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 St., Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: BMG
Location: Hwy 537 2009 Release
Project: Groundwater Monitoring and Sampling
Sampling Technician: JD
Purge / No Purge: Purge
Well Diameter (in):

Project No.:
Date: 12-21-22
Arrival Time: 11:09
Air Temp: 33° Sunny
T.O.C. Elev. (ft):
Total Well Depth (ft): 39.5

Initial D.T.W. (ft): 31.31 Time: 11:10 (taken at initial gauging of all wells)
Confirm D.T.W. (ft): 31.31 Time: 11:11 (taken prior to purging well)
Final D.T.W. (ft): 31.44 Time: 11:59 (taken after sample collection)
If NAPL Present: D.T.P.:_____ D.T.W.:_____ Thickness:_____ Time:_____

Water Quality Parameters - Recorded During Well Purging

YSI #___ Calibration Date:

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
11:20	14.7	4.84	3.38 TDS	7.2	2.42 S	.25	clear - slight odor (HC)
11:25	13.6	4.29	3.00	7.0	2.14	1 gallon	gray - HC odor
11:31	13.2	4.17	2.91	7.0	2.07	2 gallon	gray - HC odor
11:35	13.0	4.19	2.92	7.0	2.09	3 gallon	SHEEN
11:45	12.8	4.12	2.88	7.1	2.06	4 gallon	S.A.A.
11:57						Samples Collected	

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

Disposal of Purged Water: Onsite storage tank
Collected Samples Stored on Ice in Cooler: yes
Chain of Custody Record Complete: yes
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: Calculated Purge - 4.0 gallons

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

March 16, 2022

Angela Ledgerwood
Animas Environmental Services
624 E. Comanche
Farmington, NM 87401
TEL: (505) 564-2281
FAX:

RE: BMG Hwy 537 2009 Release OrderNo.: 2203681

Dear Angela Ledgerwood:

Hall Environmental Analysis Laboratory received 2 sample(s) on 3/11/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2203681**
Date Reported: **3/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-1
Project: BMG Hwy 537 2009 Release
Collection Date: 3/8/2022 12:37:00 PM
Lab ID: 2203681-001 **Matrix:** AQUEOUS **Received Date:** 3/11/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **BRM**	
Benzene	180	5.0		µg/L	5	3/15/2022 1:37:07 PM	A86489
Toluene	1.0	1.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
Ethylbenzene	6.5	1.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
1,2,4-Trimethylbenzene	19	1.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
1,3,5-Trimethylbenzene	11	1.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
Naphthalene	3.1	2.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
1-Methylnaphthalene	ND	4.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
2-Methylnaphthalene	4.6	4.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
Acetone	ND	10		µg/L	1	3/14/2022 9:11:47 PM	B86459
Bromobenzene	ND	1.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
Bromodichloromethane	ND	1.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
Bromoform	ND	1.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
Bromomethane	ND	3.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
2-Butanone	ND	10		µg/L	1	3/14/2022 9:11:47 PM	B86459
Carbon disulfide	ND	10		µg/L	1	3/14/2022 9:11:47 PM	B86459
Carbon Tetrachloride	ND	1.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
Chlorobenzene	ND	1.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
Chloroethane	ND	2.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
Chloroform	ND	1.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
Chloromethane	ND	3.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
2-Chlorotoluene	ND	1.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
4-Chlorotoluene	ND	1.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
cis-1,2-DCE	ND	1.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
Dibromochloromethane	ND	1.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
Dibromomethane	ND	1.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
1,1-Dichloroethane	ND	1.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
1,1-Dichloroethene	ND	1.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
1,2-Dichloropropane	ND	1.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
1,3-Dichloropropane	ND	1.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
2,2-Dichloropropane	ND	2.0		µg/L	1	3/14/2022 9:11:47 PM	B86459

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Estimated value
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference

Analytical Report
Lab Order **2203681**
Date Reported: **3/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-1
Project: BMG Hwy 537 2009 Release
Collection Date: 3/8/2022 12:37:00 PM
Lab ID: 2203681-001 **Matrix:** AQUEOUS **Received Date:** 3/11/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **BRM**	
1,1-Dichloropropene	ND	1.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
Hexachlorobutadiene	ND	1.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
2-Hexanone	ND	10		µg/L	1	3/14/2022 9:11:47 PM	B86459
Isopropylbenzene	1.4	1.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
4-Isopropyltoluene	1.9	1.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
4-Methyl-2-pentanone	ND	10		µg/L	1	3/14/2022 9:11:47 PM	B86459
Methylene Chloride	ND	3.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
n-Butylbenzene	ND	3.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
n-Propylbenzene	1.9	1.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
sec-Butylbenzene	1.0	1.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
Styrene	ND	1.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
tert-Butylbenzene	ND	1.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
trans-1,2-DCE	ND	1.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
Trichlorofluoromethane	ND	1.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
Vinyl chloride	ND	1.0		µg/L	1	3/14/2022 9:11:47 PM	B86459
Xylenes, Total	32	1.5		µg/L	1	3/14/2022 9:11:47 PM	B86459
Surr: 1,2-Dichloroethane-d4	91.9	70-130		%Rec	1	3/14/2022 9:11:47 PM	B86459
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	1	3/14/2022 9:11:47 PM	B86459
Surr: Dibromofluoromethane	85.4	70-130		%Rec	1	3/14/2022 9:11:47 PM	B86459
Surr: Toluene-d8	100	70-130		%Rec	1	3/14/2022 9:11:47 PM	B86459

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2203681**
Date Reported: **3/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services **Client Sample ID:** Trip Blank
Project: BMG Hwy 537 2009 Release **Collection Date:**
Lab ID: 2203681-002 **Matrix:** TRIP BLANK **Received Date:** 3/11/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **BRM**	
Benzene	ND	1.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
Toluene	ND	1.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
Ethylbenzene	ND	1.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
Naphthalene	ND	2.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
1-Methylnaphthalene	ND	4.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
2-Methylnaphthalene	ND	4.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
Acetone	ND	10		µg/L	1	3/15/2022 12:47:02 AM	B86459
Bromobenzene	ND	1.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
Bromodichloromethane	ND	1.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
Bromoform	ND	1.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
Bromomethane	ND	3.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
2-Butanone	ND	10		µg/L	1	3/15/2022 12:47:02 AM	B86459
Carbon disulfide	ND	10		µg/L	1	3/15/2022 12:47:02 AM	B86459
Carbon Tetrachloride	ND	1.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
Chlorobenzene	ND	1.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
Chloroethane	ND	2.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
Chloroform	ND	1.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
Chloromethane	ND	3.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
2-Chlorotoluene	ND	1.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
4-Chlorotoluene	ND	1.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
cis-1,2-DCE	ND	1.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
Dibromochloromethane	ND	1.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
Dibromomethane	ND	1.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
1,1-Dichloroethane	ND	1.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
1,1-Dichloroethene	ND	1.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
1,2-Dichloropropane	ND	1.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
1,3-Dichloropropane	ND	1.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
2,2-Dichloropropane	ND	2.0		µg/L	1	3/15/2022 12:47:02 AM	B86459

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2203681**
Date Reported: **3/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services **Client Sample ID:** Trip Blank
Project: BMG Hwy 537 2009 Release **Collection Date:**
Lab ID: 2203681-002 **Matrix:** TRIP BLANK **Received Date:** 3/11/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **BRM**	
1,1-Dichloropropene	ND	1.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
Hexachlorobutadiene	ND	1.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
2-Hexanone	ND	10		µg/L	1	3/15/2022 12:47:02 AM	B86459
Isopropylbenzene	ND	1.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
4-Isopropyltoluene	ND	1.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
4-Methyl-2-pentanone	ND	10		µg/L	1	3/15/2022 12:47:02 AM	B86459
Methylene Chloride	ND	3.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
n-Butylbenzene	ND	3.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
n-Propylbenzene	ND	1.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
sec-Butylbenzene	ND	1.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
Styrene	ND	1.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
tert-Butylbenzene	ND	1.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
trans-1,2-DCE	ND	1.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
Trichlorofluoromethane	ND	1.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
Vinyl chloride	ND	1.0		µg/L	1	3/15/2022 12:47:02 AM	B86459
Xylenes, Total	ND	1.5		µg/L	1	3/15/2022 12:47:02 AM	B86459
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	3/15/2022 12:47:02 AM	B86459
Surr: 4-Bromofluorobenzene	96.7	70-130		%Rec	1	3/15/2022 12:47:02 AM	B86459
Surr: Dibromofluoromethane	105	70-130		%Rec	1	3/15/2022 12:47:02 AM	B86459
Surr: Toluene-d8	98.2	70-130		%Rec	1	3/15/2022 12:47:02 AM	B86459

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2203681**
16-Mar-22

Client: Animas Environmental Services
Project: BMG Hwy 537 2009 Release

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW** Batch ID: **B86459** RunNo: **86459**
Prep Date: Analysis Date: **3/14/2022** SeqNo: **3050525** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	112	70	130			
Toluene	20	1.0	20.00	0	101	70	130			
Chlorobenzene	21	1.0	20.00	0	105	70	130			
1,1-Dichloroethene	21	1.0	20.00	0	107	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0	99.8	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		102	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		108	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	9.9		10.00		98.7	70	130			

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **B86459** RunNo: **86459**
Prep Date: Analysis Date: **3/14/2022** SeqNo: **3050554** 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								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2203681**
16-Mar-22

Client: Animas Environmental Services
Project: BMG Hwy 537 2009 Release

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **B86459**	RunNo: **86459**
Prep Date:	Analysis Date: **3/14/2022**	SeqNo: **3050554** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2203681**
16-Mar-22

Client: Animas Environmental Services
Project: BMG Hwy 537 2009 Release

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **B86459** RunNo: **86459**
Prep Date: Analysis Date: **3/14/2022** SeqNo: **3050554** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.8		10.00		98.0	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130			
Surr: Dibromofluoromethane	10		10.00		100	70	130			
Surr: Toluene-d8	10		10.00		100	70	130			

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW** Batch ID: **A86489** RunNo: **86489**
Prep Date: Analysis Date: **3/15/2022** SeqNo: **3051849** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	111	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		104	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130			
Surr: Dibromofluoromethane	10		10.00		104	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **A86489** RunNo: **86489**
Prep Date: Analysis Date: **3/15/2022** SeqNo: **3051878** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Surr: 1,2-Dichloroethane-d4	11		10.00		112	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	12		10.00		116	70	130			
Surr: Toluene-d8	10		10.00		102	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **Animas Environmental Services** Work Order Number: **2203681** RcptNo: **1**

Received By: **Desiree Dominguez** **3/11/2022 8:00:00 AM** DD

Completed By: **Desiree Dominguez** **3/11/2022 11:39:34 AM** DD

Reviewed By: TME 3/11/22

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☑ NA ☐
5. Sample(s) in proper container(s)? Samples not frozen. Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☑ No ☐ NA ☐
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐ # of preserved bottles checked for pH:
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐ (<2 or >12 unless noted) Adjusted?
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐ Checked by: CM 3/11/22

Special Handling (if applicable)

15. 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:

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	-0.5	Good	Yes			

Chain-of-Custody Record

Client: **Animas Environmental Services**	X Standard ☐ Rush
Mailing Address: **PO Box 8**	Project Name: **BMG Hwy 537 2009 Release**
Farmington, NM 87499-0008	Project #:
Phone #: 505-564-2281	
Email or Fax#: aledgerwood@animasenvironmental.com	Project Manager: **Angela Ledgerwood, Elizabeth McNally**
QA/QC Package: X Standard ☐ Level 4 (Full Validation)	Sampler: J. Oyebi
Accreditation: ☐ NELAP ☐ Other	On Ice: ☒ Yes ☐ No
☐ EDD (Type)	Sample Temperature: -0.5 -0.0 = -0.5

HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 2203681	Full List VOCs (8260)	TPH -GRO/DRO/MRO (8015)	Phenols (SW-846-9067)	Dissolved Mn (200.7/6010)					Air Bubbles (Y or N)
03-08-22	12:37	H_2O	MW-1	5- 40 mL VOA	HgCl2	-001	X								
		H2O	Trip Blanks	2-40mL VOA	2- HgCl2	-002	X								

Date	Time	Relinquished by	Received by	Date	Time
3/10/22	1224	Jason Oyebi		3/10/22	1224
3/10/22	1752		courier	3/11/22	8:00

Remarks: Please bill direct to Benson-Montin-Greer
bmg@bmgdrilling.com

Call with any questions.

Samples not frozen DAD 3/11/22

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.

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 20, 2022

Angela Ledgerwood

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

RE: BMG Hwy 537 2009 Release OrderNo.: 2206654

Dear Angela Ledgerwood:

Hall Environmental Analysis Laboratory received 2 sample(s) on 6/11/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2206654**
Date Reported: **6/20/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-1
Project: BMG Hwy 537 2009 Release
Collection Date: 6/9/2022 4:49:00 PM
Lab ID: 2206654-001 **Matrix:** AQUEOUS **Received Date:** 6/11/2022 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
Benzene	76	1.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
Toluene	ND	1.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
Ethylbenzene	4.4	1.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
1,2,4-Trimethylbenzene	4.9	1.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
1,3,5-Trimethylbenzene	4.1	1.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
Naphthalene	ND	2.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
1-Methylnaphthalene	ND	4.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
2-Methylnaphthalene	ND	4.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
Acetone	ND	10		µg/L	1	6/17/2022 11:06:00 AM	R88827
Bromobenzene	ND	1.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
Bromodichloromethane	ND	1.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
Bromoform	ND	1.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
Bromomethane	ND	3.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
2-Butanone	ND	10		µg/L	1	6/17/2022 11:06:00 AM	R88827
Carbon disulfide	ND	10		µg/L	1	6/17/2022 11:06:00 AM	R88827
Carbon Tetrachloride	ND	1.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
Chlorobenzene	ND	1.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
Chloroethane	ND	2.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
Chloroform	ND	1.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
Chloromethane	ND	3.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
2-Chlorotoluene	ND	1.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
4-Chlorotoluene	ND	1.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
cis-1,2-DCE	ND	1.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
Dibromochloromethane	ND	1.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
Dibromomethane	ND	1.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
1,2-Dichlorobenzene	ND	1.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
1,3-Dichlorobenzene	ND	1.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
1,4-Dichlorobenzene	ND	1.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
Dichlorodifluoromethane	ND	1.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
1,1-Dichloroethane	ND	1.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
1,1-Dichloroethene	ND	1.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
1,2-Dichloropropane	ND	1.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
1,3-Dichloropropane	ND	1.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
2,2-Dichloropropane	ND	2.0		µg/L	1	6/17/2022 11:06:00 AM	R88827

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206654**
Date Reported: **6/20/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-1
Project: BMG Hwy 537 2009 Release
Collection Date: 6/9/2022 4:49:00 PM
Lab ID: 2206654-001 **Matrix:** AQUEOUS **Received Date:** 6/11/2022 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
1,1-Dichloropropene	ND	1.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
Hexachlorobutadiene	ND	1.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
2-Hexanone	ND	10		µg/L	1	6/17/2022 11:06:00 AM	R88827
Isopropylbenzene	1.2	1.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
4-Isopropyltoluene	ND	1.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
4-Methyl-2-pentanone	ND	10		µg/L	1	6/17/2022 11:06:00 AM	R88827
Methylene Chloride	ND	3.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
n-Butylbenzene	ND	3.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
n-Propylbenzene	1.1	1.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
sec-Butylbenzene	ND	1.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
Styrene	ND	1.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
tert-Butylbenzene	ND	1.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
trans-1,2-DCE	ND	1.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
1,1,1-Trichloroethane	ND	1.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
1,1,2-Trichloroethane	ND	1.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
Trichloroethene (TCE)	ND	1.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
Trichlorofluoromethane	ND	1.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
1,2,3-Trichloropropane	ND	2.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
Vinyl chloride	ND	1.0		µg/L	1	6/17/2022 11:06:00 AM	R88827
Xylenes, Total	3.0	1.5		µg/L	1	6/17/2022 11:06:00 AM	R88827
Surr: 1,2-Dichloroethane-d4	84.3	70-130		%Rec	1	6/17/2022 11:06:00 AM	R88827
Surr: 4-Bromofluorobenzene	98.1	70-130		%Rec	1	6/17/2022 11:06:00 AM	R88827
Surr: Dibromofluoromethane	94.2	70-130		%Rec	1	6/17/2022 11:06:00 AM	R88827
Surr: Toluene-d8	101	70-130		%Rec	1	6/17/2022 11:06:00 AM	R88827

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206654**
Date Reported: **6/20/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services **Client Sample ID:** Trip Blank
Project: BMG Hwy 537 2009 Release **Collection Date:**
Lab ID: 2206654-002 **Matrix:** TRIP BLANK **Received Date:** 6/11/2022 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
Toluene	ND	1.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
Ethylbenzene	ND	1.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
Naphthalene	ND	2.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
1-Methylnaphthalene	ND	4.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
2-Methylnaphthalene	ND	4.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
Acetone	ND	10		µg/L	1	6/17/2022 12:39:00 PM	R88827
Bromobenzene	ND	1.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
Bromodichloromethane	ND	1.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
Bromoform	ND	1.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
Bromomethane	ND	3.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
2-Butanone	ND	10		µg/L	1	6/17/2022 12:39:00 PM	R88827
Carbon disulfide	ND	10		µg/L	1	6/17/2022 12:39:00 PM	R88827
Carbon Tetrachloride	ND	1.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
Chlorobenzene	ND	1.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
Chloroethane	ND	2.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
Chloroform	ND	1.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
Chloromethane	ND	3.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
2-Chlorotoluene	ND	1.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
4-Chlorotoluene	ND	1.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
cis-1,2-DCE	ND	1.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
Dibromochloromethane	ND	1.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
Dibromomethane	ND	1.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
1,2-Dichlorobenzene	ND	1.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
1,3-Dichlorobenzene	ND	1.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
1,4-Dichlorobenzene	ND	1.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
Dichlorodifluoromethane	ND	1.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
1,1-Dichloroethane	ND	1.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
1,1-Dichloroethene	ND	1.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
1,2-Dichloropropane	ND	1.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
1,3-Dichloropropane	ND	1.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
2,2-Dichloropropane	ND	2.0		µg/L	1	6/17/2022 12:39:00 PM	R88827

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2206654**
Date Reported: **6/20/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services **Client Sample ID:** Trip Blank
Project: BMG Hwy 537 2009 Release **Collection Date:**
Lab ID: 2206654-002 **Matrix:** TRIP BLANK **Received Date:** 6/11/2022 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
1,1-Dichloropropene	ND	1.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
Hexachlorobutadiene	ND	1.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
2-Hexanone	ND	10		µg/L	1	6/17/2022 12:39:00 PM	R88827
Isopropylbenzene	ND	1.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
4-Isopropyltoluene	ND	1.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
4-Methyl-2-pentanone	ND	10		µg/L	1	6/17/2022 12:39:00 PM	R88827
Methylene Chloride	ND	3.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
n-Butylbenzene	ND	3.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
n-Propylbenzene	ND	1.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
sec-Butylbenzene	ND	1.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
Styrene	ND	1.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
tert-Butylbenzene	ND	1.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
trans-1,2-DCE	ND	1.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
1,1,1-Trichloroethane	ND	1.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
1,1,2-Trichloroethane	ND	1.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
Trichloroethene (TCE)	ND	1.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
Trichlorofluoromethane	ND	1.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
1,2,3-Trichloropropane	ND	2.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
Vinyl chloride	ND	1.0		µg/L	1	6/17/2022 12:39:00 PM	R88827
Xylenes, Total	ND	1.5		µg/L	1	6/17/2022 12:39:00 PM	R88827
Surr: 1,2-Dichloroethane-d4	89.7	70-130		%Rec	1	6/17/2022 12:39:00 PM	R88827
Surr: 4-Bromofluorobenzene	95.5	70-130		%Rec	1	6/17/2022 12:39:00 PM	R88827
Surr: Dibromofluoromethane	99.0	70-130		%Rec	1	6/17/2022 12:39:00 PM	R88827
Surr: Toluene-d8	97.2	70-130		%Rec	1	6/17/2022 12:39:00 PM	R88827

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206654**

20-Jun-22

Client: Animas Environmental Services

Project: BMG Hwy 537 2009 Release

Sample ID: **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R88827**	RunNo: **88827**
Prep Date:	Analysis Date: **6/17/2022**	SeqNo: **3154616** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	104	70	130			
Toluene	21	1.0	20.00	0	104	70	130			
Chlorobenzene	22	1.0	20.00	0	110	70	130			
1,1-Dichloroethene	20	1.0	20.00	0	100	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0	101	70	130			
Surr: 1,2-Dichloroethane-d4	8.8		10.00		88.3	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		99.1	70	130			
Surr: Dibromofluoromethane	9.8		10.00		97.6	70	130			
Surr: Toluene-d8	9.5		10.00		94.8	70	130			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R88827**	RunNo: **88827**
Prep Date:	Analysis Date: **6/17/2022**	SeqNo: **3154617** 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								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206654**

20-Jun-22

Client: Animas Environmental Services

Project: BMG Hwy 537 2009 Release

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R88827**	RunNo: **88827**
Prep Date:	Analysis Date: **6/17/2022**	SeqNo: **3154617** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206654**

20-Jun-22

Client: Animas Environmental Services

Project: BMG Hwy 537 2009 Release

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R88827**	RunNo: **88827**
Prep Date:	Analysis Date: **6/17/2022**	SeqNo: **3154617** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	8.8		10.00		88.5	70	130			
Surr: 4-Bromofluorobenzene	9.5		10.00		95.3	70	130			
Surr: Dibromofluoromethane	9.7		10.00		96.9	70	130			
Surr: Toluene-d8	9.5		10.00		95.2	70	130			

Sample ID: **2206654-001ams**	SampType: **MS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **MW-1**	Batch ID: **R88827**	RunNo: **88827**
Prep Date:	Analysis Date: **6/17/2022**	SeqNo: **3154619** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	96	1.0	20.00	75.74	99.6	70	130			
Toluene	21	1.0	20.00	0.2760	102	70	130			
Chlorobenzene	21	1.0	20.00	0	107	70	130			
1,1-Dichloroethene	18	1.0	20.00	0	91.3	70	130			
Trichloroethene (TCE)	18	1.0	20.00	0	92.4	70	130			
Surr: 1,2-Dichloroethane-d4	8.3		10.00		82.5	70	130			
Surr: 4-Bromofluorobenzene	9.6		10.00		95.9	70	130			
Surr: Dibromofluoromethane	9.3		10.00		93.4	70	130			
Surr: Toluene-d8	10		10.00		102	70	130			

Sample ID: **2206654-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **MW-1**	Batch ID: **R88827**	RunNo: **88827**
Prep Date:	Analysis Date: **6/17/2022**	SeqNo: **3154620** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	94	1.0	20.00	75.74	91.5	70	130	1.72	20	
Toluene	20	1.0	20.00	0.2760	97.3	70	130	4.28	20	
Chlorobenzene	20	1.0	20.00	0	101	70	130	5.21	20	
1,1-Dichloroethene	18	1.0	20.00	0	89.0	70	130	2.50	20	
Trichloroethene (TCE)	18	1.0	20.00	0	90.9	70	130	1.59	20	
Surr: 1,2-Dichloroethane-d4	8.4		10.00		84.0	70	130	0	0	
Surr: 4-Bromofluorobenzene	9.6		10.00		96.3	70	130	0	0	
Surr: Dibromofluoromethane	9.3		10.00		92.6	70	130	0	0	
Surr: Toluene-d8	10		10.00		99.6	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting 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 Services** Work Order Number: **2206654** RcptNo: 1

Received By: **Desiree Dominguez** **6/11/2022 10:00:00 AM**

Completed By: **Cheyenne Cason** **6/13/2022 9:12:27 AM**

Reviewed By: JR 6/13/22

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☑ No ☐ NA ☐
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. 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: KPA 6.13.22

Special Handling (if applicable)

15. 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:

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.8	Good	Yes			

Chain-of-Custody Record

Client: **Animas Environmental Services**

Mailing Address: **PO Box 8**
Farmington, NM 87499-0008

Phone #: 505-564-2281

Email or Fax#: aledgerwood@animasenvironmental.com

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

Accreditation:
☐ NELAP ☐ Other
☐ EDD (Type)

Turn-Around Time:
X Standard ☐ Rush

Project Name:
BMG Hwy 537 2009 Release

Project #:

Project Manager:
Angela Ledgerwood
Elizabeth McNally

Sampler: J. Oyebi
On Ice: ☒ Yes ☐ No
Sample Temperature: 0.6+0.2=0.8°C

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	Full List VOCs (8260)	TPH -GRO/DRO/MRO (8015)	Phenols (SW-846-9067)	Dissolved Mn (200.7/6010)					Air Bubbles (Y or N)
	16:49					2206664									
6-9-22	16:49	H_2O	MW-1	5- 40 mL VOA	HgCl2	001	X								
		H2O	Trip Blanks	2-40mL VOA	2- HgCl2	002	X								

Date	Time	Relinquished by:	Received by:	Date	Time
6/10/22	1605			6/10/22	1605
6/10/22	1748		Courier	6/11/22	10:00

Remarks: Please bill direct to Benson-Montin-Greer
bmg@bmgdrilling.com

Call with any questions.

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.

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

October 13, 2022

Elizabeth McNally

Animas Environmental Services
624 E. Comanche
Farmington, NM 87401
TEL:
FAX:

RE: BMG Hwy 537 2009 Release OrderNo.: 2209H39

Dear Elizabeth McNally:

Hall Environmental Analysis Laboratory received 2 sample(s) on 9/30/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2209H39**
Date Reported: **10/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-1
Project: BMG Hwy 537 2009 Release
Collection Date: 9/28/2022 6:03:00 PM
Lab ID: 2209H39-001 **Matrix:** AQUEOUS **Received Date:** 9/30/2022 6:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JR**	
Benzene	160	10		µg/L	10	10/12/2022 2:22:22 PM	R91752
Toluene	4.3	1.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
Ethylbenzene	6.6	1.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
1,2,4-Trimethylbenzene	24	1.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
1,3,5-Trimethylbenzene	15	1.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
Naphthalene	6.6	2.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
1-Methylnaphthalene	10	4.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
2-Methylnaphthalene	12	4.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
Acetone	ND	10		µg/L	1	10/10/2022 12:27:44 PM	R91679
Bromobenzene	ND	1.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
Bromodichloromethane	ND	1.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
Bromoform	ND	1.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
Bromomethane	ND	3.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
2-Butanone	ND	10		µg/L	1	10/10/2022 12:27:44 PM	R91679
Carbon disulfide	ND	10		µg/L	1	10/10/2022 12:27:44 PM	R91679
Carbon Tetrachloride	ND	1.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
Chlorobenzene	ND	1.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
Chloroethane	ND	2.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
Chloroform	ND	1.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
Chloromethane	ND	3.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
2-Chlorotoluene	ND	1.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
4-Chlorotoluene	ND	1.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
cis-1,2-DCE	ND	1.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
Dibromochloromethane	ND	1.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
Dibromomethane	ND	1.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
1,1-Dichloroethane	ND	1.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
1,1-Dichloroethene	ND	1.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
1,2-Dichloropropane	ND	1.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
1,3-Dichloropropane	ND	1.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
2,2-Dichloropropane	ND	2.0		µg/L	1	10/10/2022 12:27:44 PM	R91679

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2209H39**
Date Reported: **10/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-1
Project: BMG Hwy 537 2009 Release
Collection Date: 9/28/2022 6:03:00 PM
Lab ID: 2209H39-001 **Matrix:** AQUEOUS **Received Date:** 9/30/2022 6:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JR**	
1,1-Dichloropropene	ND	1.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
Hexachlorobutadiene	ND	1.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
2-Hexanone	ND	10		µg/L	1	10/10/2022 12:27:44 PM	R91679
Isopropylbenzene	ND	1.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
4-Isopropyltoluene	6.1	1.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
4-Methyl-2-pentanone	ND	10		µg/L	1	10/10/2022 12:27:44 PM	R91679
Methylene Chloride	ND	3.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
n-Butylbenzene	ND	3.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
n-Propylbenzene	1.3	1.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
sec-Butylbenzene	ND	1.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
Styrene	ND	1.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
tert-Butylbenzene	ND	1.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
trans-1,2-DCE	ND	1.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
Trichlorofluoromethane	ND	1.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
Vinyl chloride	ND	1.0		µg/L	1	10/10/2022 12:27:44 PM	R91679
Xylenes, Total	39	1.5		µg/L	1	10/10/2022 12:27:44 PM	R91679
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	10/10/2022 12:27:44 PM	R91679
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	1	10/10/2022 12:27:44 PM	R91679
Surr: Dibromofluoromethane	94.1	70-130		%Rec	1	10/10/2022 12:27:44 PM	R91679
Surr: Toluene-d8	103	70-130		%Rec	1	10/10/2022 12:27:44 PM	R91679

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2209H39**
Date Reported: **10/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services **Client Sample ID:** Trip Blank
Project: BMG Hwy 537 2009 Release **Collection Date:**
Lab ID: 2209H39-002 **Matrix:** TRIP BLANK **Received Date:** 9/30/2022 6:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JR**	
Benzene	ND	1.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
Toluene	ND	1.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
Ethylbenzene	ND	1.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
Naphthalene	ND	2.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
1-Methylnaphthalene	ND	4.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
2-Methylnaphthalene	ND	4.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
Acetone	ND	10		µg/L	1	10/10/2022 1:53:27 PM	R91679
Bromobenzene	ND	1.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
Bromodichloromethane	ND	1.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
Bromoform	ND	1.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
Bromomethane	ND	3.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
2-Butanone	ND	10		µg/L	1	10/10/2022 1:53:27 PM	R91679
Carbon disulfide	ND	10		µg/L	1	10/10/2022 1:53:27 PM	R91679
Carbon Tetrachloride	ND	1.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
Chlorobenzene	ND	1.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
Chloroethane	ND	2.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
Chloroform	ND	1.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
Chloromethane	ND	3.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
2-Chlorotoluene	ND	1.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
4-Chlorotoluene	ND	1.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
cis-1,2-DCE	ND	1.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
Dibromochloromethane	ND	1.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
Dibromomethane	ND	1.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
1,1-Dichloroethane	ND	1.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
1,1-Dichloroethene	ND	1.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
1,2-Dichloropropane	ND	1.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
1,3-Dichloropropane	ND	1.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
2,2-Dichloropropane	ND	2.0		µg/L	1	10/10/2022 1:53:27 PM	R91679

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2209H39**
Date Reported: **10/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services **Client Sample ID:** Trip Blank
Project: BMG Hwy 537 2009 Release **Collection Date:**
Lab ID: 2209H39-002 **Matrix:** TRIP BLANK **Received Date:** 9/30/2022 6:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JR**	
1,1-Dichloropropene	ND	1.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
Hexachlorobutadiene	ND	1.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
2-Hexanone	ND	10		µg/L	1	10/10/2022 1:53:27 PM	R91679
Isopropylbenzene	ND	1.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
4-Isopropyltoluene	ND	1.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
4-Methyl-2-pentanone	ND	10		µg/L	1	10/10/2022 1:53:27 PM	R91679
Methylene Chloride	ND	3.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
n-Butylbenzene	ND	3.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
n-Propylbenzene	ND	1.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
sec-Butylbenzene	ND	1.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
Styrene	ND	1.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
tert-Butylbenzene	ND	1.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
trans-1,2-DCE	ND	1.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
Trichlorofluoromethane	ND	1.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
Vinyl chloride	ND	1.0		µg/L	1	10/10/2022 1:53:27 PM	R91679
Xylenes, Total	ND	1.5		µg/L	1	10/10/2022 1:53:27 PM	R91679
Surr: 1,2-Dichloroethane-d4	112	70-130		%Rec	1	10/10/2022 1:53:27 PM	R91679
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	10/10/2022 1:53:27 PM	R91679
Surr: Dibromofluoromethane	113	70-130		%Rec	1	10/10/2022 1:53:27 PM	R91679
Surr: Toluene-d8	102	70-130		%Rec	1	10/10/2022 1:53:27 PM	R91679

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2209H39**
13-Oct-22

Client: Animas Environmental Services
Project: BMG Hwy 537 2009 Release

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW** Batch ID: **R91679** RunNo: **91679**
Prep Date: Analysis Date: **10/10/2022** SeqNo: **3285252** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	101	70	130			
Toluene	21	1.0	20.00	0	104	70	130			
Chlorobenzene	21	1.0	20.00	0	103	70	130			
1,1-Dichloroethene	18	1.0	20.00	0	88.4	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0	99.3	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		105	70	130			
Surr: Dibromofluoromethane	11		10.00		109	70	130			
Surr: Toluene-d8	10		10.00		100	70	130			

Sample ID: **100ng lcs2** SampType: **LCS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW** Batch ID: **R91679** RunNo: **91679**
Prep Date: Analysis Date: **10/10/2022** SeqNo: **3285253** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	111	70	130			
Toluene	20	1.0	20.00	0	101	70	130			
Chlorobenzene	20	1.0	20.00	0	98.6	70	130			
1,1-Dichloroethene	17	1.0	20.00	0	86.8	70	130			
Trichloroethene (TCE)	21	1.0	20.00	0	104	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		106	70	130			
Surr: 4-Bromofluorobenzene	9.8		10.00		97.9	70	130			
Surr: Dibromofluoromethane	12		10.00		118	70	130			
Surr: Toluene-d8	9.8		10.00		98.1	70	130			

Sample ID: **2209h39-001ams** SampType: **MS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **MW-1** Batch ID: **R91679** RunNo: **91679**
Prep Date: Analysis Date: **10/10/2022** SeqNo: **3285255** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	240	1.0	20.00	283.2	-220	70	130			ES
Toluene	24	1.0	20.00	4.269	100	70	130			
Chlorobenzene	21	1.0	20.00	0.9182	100	70	130			
1,1-Dichloroethene	15	1.0	20.00	0	75.9	70	130			
Trichloroethene (TCE)	26	1.0	20.00	0	128	70	130			
Surr: 1,2-Dichloroethane-d4	8.9		10.00		89.5	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130			
Surr: Dibromofluoromethane	9.1		10.00		91.2	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2209H39**
13-Oct-22

Client: Animas Environmental Services
Project: BMG Hwy 537 2009 Release

Sample ID: **2209h39-001amsd** SampType: **MSD** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **MW-1** Batch ID: **R91679** RunNo: **91679**
Prep Date: Analysis Date: **10/10/2022** SeqNo: **3285256** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	230	1.0	20.00	283.2	-247	70	130	2.30	20	ES
Toluene	23	1.0	20.00	4.269	94.8	70	130	4.51	20	
Chlorobenzene	20	1.0	20.00	0.9182	97.3	70	130	2.85	20	
1,1-Dichloroethene	14	1.0	20.00	0	69.0	70	130	9.59	20	S
Trichloroethene (TCE)	23	1.0	20.00	0	114	70	130	11.9	20	
Surr: 1,2-Dichloroethane-d4	8.5		10.00		85.3	70	130	0	0	
Surr: 4-Bromofluorobenzene	9.5		10.00		94.7	70	130	0	0	
Surr: Dibromofluoromethane	9.2		10.00		91.9	70	130	0	0	
Surr: Toluene-d8	10		10.00		100	70	130	0	0	

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **R91679** RunNo: **91679**
Prep Date: Analysis Date: **10/10/2022** SeqNo: **3285288** 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								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2209H39**
13-Oct-22

Client: Animas Environmental Services
Project: BMG Hwy 537 2009 Release

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**	
Client ID: **PBW**	Batch ID: **R91679**	RunNo: **91679**	
Prep Date:	Analysis Date: **10/10/2022**	SeqNo: **3285288**	Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2209H39**
13-Oct-22

Client: Animas Environmental Services
Project: BMG Hwy 537 2009 Release

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R91679**	RunNo: **91679**
Prep Date:	Analysis Date: **10/10/2022**	SeqNo: **3285288** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		109	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		100	70	130			
Surr: Dibromofluoromethane	11		10.00		110	70	130			
Surr: Toluene-d8	10		10.00		99.9	70	130			

Sample ID: **mb2**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R91679**	RunNo: **91679**
Prep Date:	Analysis Date: **10/11/2022**	SeqNo: **3285289** 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								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2209H39**
13-Oct-22

Client: Animas Environmental Services
Project: BMG Hwy 537 2009 Release

Sample ID: **mb2** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **R91679** RunNo: **91679**
Prep Date: Analysis Date: **10/11/2022** SeqNo: **3285289** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	12		10.00		121	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2209H39**

13-Oct-22

Client: Animas Environmental Services

Project: BMG Hwy 537 2009 Release

Sample ID: **mb2**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R91679**	RunNo: **91679**
Prep Date:	Analysis Date: **10/11/2022**	SeqNo: **3285289** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130			
Surr: Dibromofluoromethane	12		10.00		121	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Sample ID: **100ng lcs4 2**	SampType: **LCS4**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **BatchQC**	Batch ID: **R91752**	RunNo: **91752**
Prep Date:	Analysis Date: **10/12/2022**	SeqNo: **3289356** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	110	70	130			
Surr: 1,2-Dichloroethane-d4	9.7		10.00		96.9	70	130			
Surr: 4-Bromofluorobenzene	8.5		10.00		85.4	70	130			
Surr: Dibromofluoromethane	11		10.00		115	70	130			
Surr: Toluene-d8	9.4		10.00		94.4	70	130			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R91752**	RunNo: **91752**
Prep Date:	Analysis Date: **10/12/2022**	SeqNo: **3289374** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Surr: 1,2-Dichloroethane-d4	11		10.00		108	70	130			
Surr: 4-Bromofluorobenzene	9.5		10.00		94.6	70	130			
Surr: Dibromofluoromethane	12		10.00		118	70	130			
Surr: Toluene-d8	9.5		10.00		95.4	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting 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 Services

Work Order Number: 2209H39

RcptNo: 1

Received By: Juan Rojas 9/30/2022 10:50:00 AM

Completed By: Sean Livingston 9/30/2022 11:06:42 AM

Reviewed By: 9-30-22

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☑ No ☐ NA ☐
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. 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: JR 9/30/22

Special Handling (if applicable)

15. 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: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.5	Good				

Chain-of-Custody Record

Client: **Animas Environmental Services**

Mailing Address: **PO Box 8**
Farmington, NM 87499-0008

Phone #: 505-564-2281

Email or Fax#: aledgerwood@animasenvironmental.com

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

Accreditation:
☐ NELAP ☐ Other_____

☐ EDD (Type) _____

Turn-Around Time:
X Standard ☐ **Rush**_____

Project Name:
BMG Hwy 537 2009 Release

Project #:

Project Manager:
Angela Ledgerwood
Elizabeth McNally

Sampler: J. Oyebi

On Ice: ~~☐~~ Yes ☐ No

Sample Temperature: 0.5-0=0.5

HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 2209H39	Full List VOCs (8260)	TPH -GRO/DRO/MRO (8015)	Phenols (SW-846-9067)	Dissolved Mn (200.7/6010)					Air Bubbles (Y or N)
9-28-22	18:03	H_2O	MW-1	5- 40 mL VOA	HgCl2	001	X								
		H2O	Trip Blanks	2-40mL VOA	2- HgCl2	002	X								

Date:	Time:	Relinquished by:	Received by:	Date	Time
9/29/22	1342			9/29/22	1342
Date: 9/29/22	Time: 1746	Relinquished by:	Received by:	Date 9/30/22	Time 6:55

Remarks: Please bill direct to Benson-Montin-Greer bmg@bmgdrilling.com

Call with any questions.

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 repo

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

January 06, 2023

Angela Ledgerwood

Animas Environmental Services
624 E. Comanche
Farmington, NM 87401
TEL: (505) 564-2281
FAX:

RE: BMG Hwy 537 2009 Release OrderNo.: 2212C91

Dear Angela Ledgerwood:

Hall Environmental Analysis Laboratory received 2 sample(s) on 12/22/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2212C91**
Date Reported: **1/6/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-1
Project: BMG Hwy 537 2009 Release
Collection Date: 12/21/2022 11:57:00 AM
Lab ID: 2212C91-001 **Matrix:** AQUEOUS **Received Date:** 12/22/2022 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	3.1	0.10		mg/L	2	12/28/2022 6:34:00 PM	R93606
Surr: BFB	231	70-130	S	%Rec	2	12/28/2022 6:34:00 PM	R93606
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
Benzene	380	5.0	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
Toluene	ND	10	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
Ethylbenzene	11	10	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
Methyl tert-butyl ether (MTBE)	ND	10	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
1,2,4-Trimethylbenzene	20	10	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
1,3,5-Trimethylbenzene	14	10	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
1,2-Dichloroethane (EDC)	ND	5.0	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
1,2-Dibromoethane (EDB)	ND	10	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
Naphthalene	ND	20	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
1-Methylnaphthalene	ND	40	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
2-Methylnaphthalene	ND	40	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
Acetone	ND	100	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
Bromobenzene	ND	10	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
Bromodichloromethane	ND	10	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
Bromoform	ND	10	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
Bromomethane	ND	30	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
2-Butanone	ND	100	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
Carbon disulfide	ND	100	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
Carbon Tetrachloride	ND	10	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
Chlorobenzene	ND	10	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
Chloroethane	ND	20	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
Chloroform	ND	10	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
Chloromethane	ND	30	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
2-Chlorotoluene	ND	10	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
4-Chlorotoluene	ND	10	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
cis-1,2-DCE	ND	10	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
cis-1,3-Dichloropropene	ND	10	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
1,2-Dibromo-3-chloropropane	ND	20	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
Dibromochloromethane	ND	10	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
Dibromomethane	ND	10	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
1,2-Dichlorobenzene	ND	10	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
1,3-Dichlorobenzene	ND	10	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
1,4-Dichlorobenzene	ND	10	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
Dichlorodifluoromethane	ND	10	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
1,1-Dichloroethane	ND	10	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
1,1-Dichloroethene	ND	10	D	µg/L	10	12/30/2022 4:11:00 PM	R93650

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212C91**
Date Reported: **1/6/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-1
Project: BMG Hwy 537 2009 Release
Collection Date: 12/21/2022 11:57:00 AM
Lab ID: 2212C91-001 **Matrix:** AQUEOUS **Received Date:** 12/22/2022 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
1,2-Dichloropropane	ND	10	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
1,3-Dichloropropane	ND	10	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
2,2-Dichloropropane	ND	20	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
1,1-Dichloropropene	ND	10	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
Hexachlorobutadiene	ND	10	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
2-Hexanone	ND	100	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
Isopropylbenzene	ND	10	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
4-Isopropyltoluene	ND	10	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
4-Methyl-2-pentanone	ND	100	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
Methylene Chloride	ND	30	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
n-Butylbenzene	ND	30	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
n-Propylbenzene	ND	10	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
sec-Butylbenzene	ND	10	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
Styrene	ND	10	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
tert-Butylbenzene	ND	10	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
1,1,1,2-Tetrachloroethane	ND	10	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
1,1,2,2-Tetrachloroethane	ND	20	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
Tetrachloroethene (PCE)	ND	10	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
trans-1,2-DCE	ND	10	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
trans-1,3-Dichloropropene	ND	10	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
1,2,3-Trichlorobenzene	ND	10	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
1,2,4-Trichlorobenzene	ND	10	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
1,1,1-Trichloroethane	ND	10	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
1,1,2-Trichloroethane	ND	10	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
Trichloroethene (TCE)	ND	10	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
Trichlorofluoromethane	ND	10	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
1,2,3-Trichloropropane	ND	20	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
Vinyl chloride	ND	10	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
Xylenes, Total	20	15	D	µg/L	10	12/30/2022 4:11:00 PM	R93650
Surr: 1,2-Dichloroethane-d4	93.2	70-130	D	%Rec	10	12/30/2022 4:11:00 PM	R93650
Surr: 4-Bromofluorobenzene	102	70-130	D	%Rec	10	12/30/2022 4:11:00 PM	R93650
Surr: Dibromofluoromethane	96.0	70-130	D	%Rec	10	12/30/2022 4:11:00 PM	R93650
Surr: Toluene-d8	102	70-130	D	%Rec	10	12/30/2022 4:11:00 PM	R93650

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212C91**
Date Reported: **1/6/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services **Client Sample ID:** Trip Blank
Project: BMG Hwy 537 2009 Release **Collection Date:**
Lab ID: 2212C91-002 **Matrix:** TRIP BLANK **Received Date:** 12/22/2022 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	12/28/2022 6:53:00 PM	R93606
Surr: BFB	104	70-130		%Rec	1	12/28/2022 6:53:00 PM	R93606
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
Toluene	ND	1.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
Ethylbenzene	ND	1.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
Naphthalene	ND	2.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
1-Methylnaphthalene	ND	4.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
2-Methylnaphthalene	ND	4.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
Acetone	ND	10		µg/L	1	12/30/2022 5:19:00 PM	R93650
Bromobenzene	ND	1.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
Bromodichloromethane	ND	1.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
Bromoform	ND	1.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
Bromomethane	ND	3.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
2-Butanone	ND	10		µg/L	1	12/30/2022 5:19:00 PM	R93650
Carbon disulfide	ND	10		µg/L	1	12/30/2022 5:19:00 PM	R93650
Carbon Tetrachloride	ND	1.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
Chlorobenzene	ND	1.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
Chloroethane	ND	2.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
Chloroform	ND	1.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
Chloromethane	ND	3.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
2-Chlorotoluene	ND	1.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
4-Chlorotoluene	ND	1.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
cis-1,2-DCE	ND	1.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
Dibromochloromethane	ND	1.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
Dibromomethane	ND	1.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
1,1-Dichloroethane	ND	1.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
1,1-Dichloroethene	ND	1.0		µg/L	1	12/30/2022 5:19:00 PM	R93650

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2212C91**
Date Reported: **1/6/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services **Client Sample ID:** Trip Blank
Project: BMG Hwy 537 2009 Release **Collection Date:**
Lab ID: 2212C91-002 **Matrix:** TRIP BLANK **Received Date:** 12/22/2022 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
1,2-Dichloropropane	ND	1.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
1,3-Dichloropropane	ND	1.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
2,2-Dichloropropane	ND	2.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
1,1-Dichloropropene	ND	1.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
Hexachlorobutadiene	ND	1.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
2-Hexanone	ND	10		µg/L	1	12/30/2022 5:19:00 PM	R93650
Isopropylbenzene	ND	1.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
4-Isopropyltoluene	ND	1.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
4-Methyl-2-pentanone	ND	10		µg/L	1	12/30/2022 5:19:00 PM	R93650
Methylene Chloride	ND	3.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
n-Butylbenzene	ND	3.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
n-Propylbenzene	ND	1.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
sec-Butylbenzene	ND	1.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
Styrene	ND	1.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
tert-Butylbenzene	ND	1.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
trans-1,2-DCE	ND	1.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
Trichlorofluoromethane	ND	1.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
Vinyl chloride	ND	1.0		µg/L	1	12/30/2022 5:19:00 PM	R93650
Xylenes, Total	ND	1.5		µg/L	1	12/30/2022 5:19:00 PM	R93650
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	12/30/2022 5:19:00 PM	R93650
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	12/30/2022 5:19:00 PM	R93650
Surr: Dibromofluoromethane	106	70-130		%Rec	1	12/30/2022 5:19:00 PM	R93650
Surr: Toluene-d8	96.7	70-130		%Rec	1	12/30/2022 5:19:00 PM	R93650

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2212C91**

06-Jan-23

Client: Animas Environmental Services

Project: BMG Hwy 537 2009 Release

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSW**	Batch ID: **R93606**	RunNo: **93606**
Prep Date:	Analysis Date: **12/28/2022**	SeqNo: **3377664** 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	80	120			
Surr: BFB	47		20.00		236	70	130			S

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBW**	Batch ID: **R93606**	RunNo: **93606**
Prep Date:	Analysis Date: **12/28/2022**	SeqNo: **3377665** 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	21		20.00		106	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2212C91**
06-Jan-23

Client: Animas Environmental Services
Project: BMG Hwy 537 2009 Release

Sample ID: **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R93650**	RunNo: **93650**
Prep Date:	Analysis Date: **12/30/2022**	SeqNo: **3380539** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	100	70	130			
Toluene	19	1.0	20.00	0	95.1	70	130			
Chlorobenzene	20	1.0	20.00	0	98.9	70	130			
1,1-Dichloroethene	19	1.0	20.00	0	97.5	70	130			
Trichloroethene (TCE)	19	1.0	20.00	0	94.9	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		104	70	130			
Surr: Dibromofluoromethane	10		10.00		103	70	130			
Surr: Toluene-d8	9.8		10.00		98.1	70	130			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R93650**	RunNo: **93650**
Prep Date:	Analysis Date: **12/30/2022**	SeqNo: **3380540** 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								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2212C91**
06-Jan-23

Client: Animas Environmental Services
Project: BMG Hwy 537 2009 Release

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R93650**	RunNo: **93650**
Prep Date:	Analysis Date: **12/30/2022**	SeqNo: **3380540** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2212C91**

06-Jan-23

Client: Animas Environmental Services

Project: BMG Hwy 537 2009 Release

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R93650**	RunNo: **93650**
Prep Date:	Analysis Date: **12/30/2022**	SeqNo: **3380540** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	11		10.00		105	70	130			
Surr: Toluene-d8	9.5		10.00		95.3	70	130			

Sample ID: **2212C91-001AMS**	SampType: **MS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **MW-1**	Batch ID: **R93650**	RunNo: **93650**
Prep Date:	Analysis Date: **12/30/2022**	SeqNo: **3380553** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	580	10	200.0	381.7	97.1	70	130			
Toluene	200	10	200.0	0	97.7	70	130			
Chlorobenzene	200	10	200.0	0	98.1	70	130			
1,1-Dichloroethene	190	10	200.0	0	96.4	70	130			
Trichloroethene (TCE)	190	10	200.0	0	96.1	70	130			
Surr: 1,2-Dichloroethane-d4	96		100.0		95.5	70	130			
Surr: 4-Bromofluorobenzene	100		100.0		103	70	130			
Surr: Dibromofluoromethane	96		100.0		96.3	70	130			
Surr: Toluene-d8	100		100.0		103	70	130			

Sample ID: **2212C91-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **MW-1**	Batch ID: **R93650**	RunNo: **93650**
Prep Date:	Analysis Date: **12/30/2022**	SeqNo: **3380554** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	550	10	200.0	381.7	86.1	70	130	3.88	20	
Toluene	190	10	200.0	0	93.1	70	130	4.83	20	
Chlorobenzene	190	10	200.0	0	93.9	70	130	4.36	20	
1,1-Dichloroethene	180	10	200.0	0	92.4	70	130	4.29	20	
Trichloroethene (TCE)	190	10	200.0	0	93.8	70	130	2.43	20	
Surr: 1,2-Dichloroethane-d4	95		100.0		94.8	70	130	0	0	
Surr: 4-Bromofluorobenzene	100		100.0		105	70	130	0	0	
Surr: Dibromofluoromethane	98		100.0		97.7	70	130	0	0	
Surr: Toluene-d8	100		100.0		102	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting 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 Services | Work Order Number: 2212C91 | RcptNo: 1

Received By: Tracy Casarrubias 12/22/2022 6:45:00 AM

Completed By: Tracy Casarrubias 12/22/2022 8:36:04 AM

Reviewed By: KPC 12.22

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☑	No ☐	NA ☐
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. 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: SCL 12/22/22

Special Handling (if applicable)

15. 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: _____

16. Additional remarks: Client collected their own trip Blank -SCL 12/22/22

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.4	Good	Yes			

Chain-of-Custody Record

Client:	Animas Environmental Services
Mailing Address:	PO Box 8
	Farmington, NM 87499-0008
Phone #:	505-564-2281
Email or Fax#:	aledgerwood@animasenvironmental.com
QA/QC Package:	X Standard ☐ Level 4 (Full Validation)
Accreditation:	☐ NELAP ☐ Other ☐ EDD (Type)

Turn-Around Time:	X Standard ☐ Rush
Project Name:	BMG Hwy 537 2009 Release
Project #:	
Project Manager:	Angela Ledgerwood Elizabeth McNally
Sampler:	J. Oyebi
On Ice:	☑ Yes ☐ No
Sample Temperature:	0.4 - 0 = 0.4°C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE - Albuquerque, NM 87109

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

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 2212C91	Analysis Request: Full List VOCs (8260)	TPH -GRO/DRO/MRO (8015)	~~Phenols (SW-846 9067)~~ 2	~~Dissolved Mn (200.7/6010)~~ 1					Air Bubbles (Y or N)
12-21-22	11:57	H_2O	MW-1	5- 40 mL VOA	HgCl2	001	X	X	X	X					
		H_2O	Trip Blank	2-40mL VOA	2- HgCl2	002	X								

Date:	Time:	Relinquished by:	Received by:	Date	Time
12/21/22	1700			12/21/22	1700
12/21/22	1820		Courier	12/22/22	6:45

Remarks: Please bill direct to Benson-Montin-Greer
bmg@bmgdrilling.com

Call with any questions.

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.

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

March 23, 2023

Angela Ledgerwood
Animas Environmental Services
624 E. Comanche
Farmington, NM 87401
TEL:
FAX:

RE: BMG Hwy 537 2009 Release OrderNo.: 2303953

Dear Angela Ledgerwood:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/17/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2303953**
Date Reported: **3/23/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-1
Project: BMG Hwy 537 2009 Release
Collection Date: 3/15/2023 12:42:00 PM
Lab ID: 2303953-001 **Matrix:** AQUEOUS **Received Date:** 3/17/2023 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 200.7: DISSOLVED METALS						Analyst: **JRR**	
Manganese	0.27	0.0020	*	mg/L	1	3/21/2023 2:45:49 PM	A95439

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2303953**

23-Mar-23

Client: Animas Environmental Services

Project: BMG Hwy 537 2009 Release

Sample ID: **MB-A**	SampType: **MBLK**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **PBW**	Batch ID: **A95439**	RunNo: **95439**
Prep Date:	Analysis Date: **3/21/2023**	SeqNo: **3452355** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Manganese	ND	0.0020								

Sample ID: **LCSLL-A**	SampType: **LCSLL**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **BatchQC**	Batch ID: **A95439**	RunNo: **95439**
Prep Date:	Analysis Date: **3/21/2023**	SeqNo: **3452356** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Manganese	0.0022	0.0020	0.002000	0	108	50	150			

Sample ID: **LCS-A**	SampType: **LCS**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **LCSW**	Batch ID: **A95439**	RunNo: **95439**
Prep Date:	Analysis Date: **3/21/2023**	SeqNo: **3452357** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Manganese	0.52	0.0020	0.5000	0	105	85	115			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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 Services | Work Order Number: 2303953 | RcptNo: 1

Received By: Juan Rojas 3/17/2023 7:35:00 AM

Completed By: Sean Livingston 3/17/2023 11:02:04 AM

Reviewed By: DAD 3/17/23

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: 0 (<2 or >12 unless noted)

Adjusted? NO

Checked by: JM 3/17/23

Special Handling (if applicable)

15. 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:

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.6	Good	Not Present	Morty		

Chain-of-Custody Record

Client: Animas Environmental Services

Mailing Address: PO Box 8
Farmington, NM 87499-0008

Phone #: 720-537-6650

Email or Fax#: aledgerwood@animasenvironmental.com

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

Accreditation:
☐ NELAP ☐ Other______

☐ EDD (Type) ______

Turn-Around Time:
X Standard ☐ Rush______

Project Name:
BMG Hwy 537 2009 Release

Project #:

Project Manager:
Angela Ledgerwood
Elizabeth McNally

Sampler: J. Oyebi

On Ice: ☑ Yes ☐ No Mor ty

Sample Temperature: 0.4+0.2=0.6

HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 2303953	Dissolved Mn (200.7/6010)	~~Phenols per SW846 9067~~								Air Bubbles (Y or N)
3/15/23	12:42	H_2O	MW-1	~~250mL Amber~~ 1x125-mL HDPE	~~Cool~~ HNO_3, cool	001	X	~~X~~								

Date:	Time:	Relinquished by:	Received by:	Date	Time
3/16/23	1544	[signature]	[signature]	3/16/23	1544
3/16/23	1752	[signature]	[signature] courier	3/17/23	7:35

Remarks: Please bill direct to Benson-Montin-Greer bmg@bmgdrilling.com. Call with any questions.
Diss. Mn/200.7|6010: 1x125-mL HDPE bottle, HNO_3 - must be field-filtered prior to preservation

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.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 203225

CONDITIONS

Operator:	OGRID:
BENSON-MONTIN-GREER DRILLING CORP 4900 College Blvd. Farmington, NM 87402	2096
	Action Number: 203225
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Review of the Q1 through Q4 Annual 2022 Progress Report: Content Satisfactory 1. Continue to sample and monitor groundwater in MW-1 for VOCs, Phenols, and Manganese per progress report. 2. Gauge all wells for depth to groundwater and water quality parameters on an annual basis. 3. Replace the absorbent sock in MW-1 as needed. 4. Submit the next progress report for 2023 by April 1, 2024.	8/3/2023