

**REVIEWED***By Mike Buchanan at 3:29 pm, Aug 04, 2023*

March 31, 2022

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

**Re: Q1 through Q4 Annual 2021 Progress Report
Benson-Montin-Greer
Highway 537 Truck Receiving Station 2009 Release
Rio Arriba County, New Mexico
AP-137 (Formerly 3RP-448)
Incident #NRMD0929447874**

Review of Q1 through Q4 Annual
2021 Progress Report: **Content
Satisfactory**

1. Continue to sample MW-1 for Volatiles Quarterly, Phenols (SW-846 9067) and dissolved manganese (EPA Method 200.7)
2. Gauge all wells for depth to groundwater and water quality parameters on an annual basis.
3. Replace absorbent sock as needed.
4. Submit the next Annual Report for all quarters on or before April 1, 2024.

Dear Mr. Velez:

On behalf of Benson-Montin-Greer Drilling Corporation (BMG), Animas Environmental Services, LLC (AES) has prepared this Annual 2021 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

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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 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 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). 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 milligrams per kilogram (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 cubic yards 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 (ft²/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.

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

<i>Time Period</i>	<i>Mass Petroleum Hydrocarbons Removed (lbs)</i>
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
<i>Cumulative Mass</i>	<i>3,913</i>

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 has been checked periodically and replaced as needed throughout 2021.

1.7 Site Activities, 2019 to 2020

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 in order 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).

2.0 Groundwater Monitoring and Sampling, 2021

Groundwater monitoring and sampling was conducted by AES in March, June, September, and December 2021. 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 2021

Groundwater monitoring of all site wells and sampling of monitor well MW-1 was conducted by AES on March 17, 2021, for 1st Quarter 2021. During the sampling event, a NAPL sheen 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 30.71 ft bgs at MW-3 to 31.60 ft bgs at MW-5. Field water quality measurements could not be obtained from MW-1 due to a NAPL sheen remaining after bailing. Groundwater gradient was calculated to be 0.005 ft/ft in a southwestern direction. March 2021 groundwater elevations and contours are presented in Figure 3A.

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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 organics (VOCs) per USEPA Method 8260; and
- TPH (GRO/DRO/MRO) per USEPA Method 8015.

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).

TPH concentrations as GRO (8.1 mg/L) and DRO (2.6 mg/L) were also detected. TPH-MRO levels were below laboratory detection limits. Note there are no WQCC standards for these parameters. 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 2021

Groundwater monitoring of all site wells and sampling of monitor well MW-1 was conducted by AES on June 17, 2021, for 2nd Quarter 2021. During the sampling event, residual NAPL remained in MW-1 (0.01 ft). 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 30.99 ft bgs at MW-3 to 31.81 ft bgs at MW-5. NAPL was measured only at MW-1 (0.01 ft). Field water quality measurements could not be obtained from MW-1 due to a NAPL sheen remaining after bailing. Groundwater gradient was calculated to be 0.005 ft/ft in a southwestern direction. June 2021 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; and
- TPH (GRO/DRO/MRO) per USEPA Method 8015.

Groundwater Laboratory Analytical Results

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

- Benzene - 14 µg/L (WQCC standard 5 µg/L).

TPH concentrations as GRO (0.28 mg/L) were detected, and TPH-DRO and TPH-MRO levels were below laboratory detection limits. Groundwater analytical results are tabulated and presented in Tables 2 and 3; and are also presented on Figure 4.

2.3 September 2021

Groundwater monitoring of all site wells and sampling of monitor well MW-1 was conducted by AES on September 29, 2021, for 3rd Quarter 2021. During the sampling event, 0.02 ft of NAPL 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 31.38 ft bgs at MW-3 to 32.17 ft bgs at MW-5. NAPL was measured only at MW-1 (0.02 ft) and the MW-5 well casing was again observed to be damaged. Following well measurement, approximately three well volumes were purged from wells MW-2 through MW-4, and water quality measurements were recorded following purging. Temperature readings in the wells ranged between 12.9°C in MW-3 and 13.4°C in MW-2. Specific conductivity measurements were between 2.847 mS in MW-3 up to 3.137 mS in MW-4, and groundwater pH ranged from 7.13 to 7.47. Dissolved oxygen readings were between 0.57 in MW-3 to 1.30 in MW-4, and oxidation reduction potential (ORP) readings ranged from 191.7 mV to 225.4 mV. Groundwater gradient was calculated to be 0.005 ft/ft in a southwestern direction. September 2021 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;

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- TPH (GRO/DRO/MRO) per USEPA Method 8015;
- Total phenols per USEPA Method SW-846 9067; 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 - 190 µg/L (WQCC standard 5 µg/L); and
- Dissolved manganese - 0.42 mg/L.

TPH concentrations as GRO (1.8 mg/L) and DRO (1.1 mg/L) were detected, and TPH-MRO and phenol levels were below laboratory detection limits. Groundwater analytical results are tabulated and presented in Tables 2 and 3; and are also presented on Figure 4.

2.4 December 2021

Groundwater monitoring of all site wells and sampling of monitor well MW-1 was conducted by AES on December 14, 2021, for 4th Quarter 2021. During the sampling event, residual NAPL remained in MW-1 (0.01 ft). 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 32.0 ft bgs at MW-1 to 32.5 ft bgs at MW-3 and MW-4. NAPL was measured only at MW-1 (0.01 ft). Field water quality measurements could not be obtained from MW-1 due to a NAPL sheen remaining after bailing. December 2021 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.

Groundwater Laboratory Analytical Results

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

- Benzene - 54 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.

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.

- **Benzene** - concentrations have been variable but overall decreasing in MW-1; benzene concentrations since 2019 are presented in Graph 1.
- **Manganese** – dissolved phase concentrations at MW-1 (source area) remain above natural background levels, with a concentration reported at 0.42 mg/L.

4.0 Conclusions and Recommendations

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.

Based on field observations, field screening, and laboratory analytical results from March through December 2021, the following is concluded:

1. 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;

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2. 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;
3. 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.

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

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

5.0 Scheduled Site Activities

In accordance with the submitted Stage 1 and 2 Abatement Plan, the following site activities are currently scheduled for 2022:

<i>Months from Stage 1 and 2 Abatement Plan Approval and/or Scheduled Month for Work</i>	<i>Abatement Task Due</i>
0	NMOCD Approval of Stage 1 and Stage 2 Abatement Plan
0.5	Public Notice Posted
March 2022	Groundwater sampling (MW-1) for VOCs per 8260;

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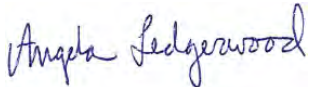
June 2022	Groundwater sampling (MW-1) for VOCs per 80260;
September 2022	Quarterly groundwater gauging and water quality measurements all wells; Groundwater sampling (MW-1) for VOCs per 8260; phenols; and dissolved Mn;
December 2022	Groundwater sampling (MW-1) for VOCs per 8260;
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If 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

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Tables

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

Figures

1. Topographic Site Location Map
2. Aerial Site Map
- 3A. General Site Map and Groundwater Gradient Map, March 2021
- 3B. General Site Map and Groundwater Gradient Map, June 2021
- 3C. General Site Map and Groundwater Gradient Map, September 2021
- 3D. General Site Map and Groundwater Gradient Map, December 2021
4. Groundwater Contaminant Concentrations, 2021

Graphs

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

Appendices

- A. Groundwater Sample Collection Forms (March, June, September, and December 2021)
- B. Laboratory Analytical Reports (Hall No. 2103962, 2106A63, 2109H26, 2112A03)

Cc: Zach Stradling (zstradling@bmqdrilling.com)
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Craig Schmitz, Private Landowner (hard copy)
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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		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)				

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	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
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

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	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-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
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

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	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
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-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

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	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
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

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	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-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
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

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	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				
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-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

TABLE 1
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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	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
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

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	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
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

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	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
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

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	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
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

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	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
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

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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	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
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-2	05-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-2	10-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-2	15-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-2	14-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-2	21-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-2	12-May-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0

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	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
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

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	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	10-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-6	15-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-6	15-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-6	21-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-6	12-May-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-6	12-Aug-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-6	16-Nov-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-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	10-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-7	15-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-7	14-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-7	21-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-7	12-May-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-7	12-Aug-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0

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-7	16-Nov-11	<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	11-Sep-09	1,200	<20	36	75	4.1	1.1	<5.0
MW-8	15-Jan-10	56	<1.0	2.3	2.2	0.24	<1.0	<5.0
MW-8	15-Oct-10	50	<1.0	1.7	<2.0	0.21	<1.0	<5.0
MW-8	21-Jan-11	370	<1.0	4.6	<2.0	0.58	<1.0	<5.0
MW-8	12-May-11	430	<1.0	25	<2.0	1.4	<1.0	<5.0
MW-8	12-Aug-11	2.3	<1.0	<1.0	<2.0	0.070	<1.0	<5.0
MW-8	16-Nov-11	1.5	<1.0	<1.0	<2.0	0.17	<1.0	<5.0
MW-8	21-Feb-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-8	24-May-12	<1.0	<1.0	<1.0	<2.0	0.12	<1.0	<5.0
MW-8	10-Sep-12	<1.0	<1.0	<1.0	<2.0	0.16	<1.0	<5.0
MW-8	04-Dec-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-8	26-Mar-13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-8	27-Jun-13	<1.0	<1.0	<1.0	<2.0	0.052	<1.0	<5.0
MW-8	04-Apr-14	<1.0	<1.0	<1.0	<2.0	0.072	<1.0	<5.0
MW-8	07-Aug-17	Plugged and Abandoned						
MW-9	06-Mar-09	170	350	49	530	2.5	<1.0	<5.0
MW-9	06-Apr-09	82	62	16	210	1.6	<1.0	<5.0
MW-9	10-Sep-09	46	<1.0	3.8	19	0.86	<1.0	<5.0
MW-9	15-Jan-10	62	<1.0	4.2	12	0.49	<1.0	<5.0
MW-9	15-Oct-10	53	<1.0	2.3	<2.0	0.22	<1.0	<5.0
MW-9	21-Jan-11	390	<1.0	5.1	<2.0	0.41	<1.0	<5.0
MW-9	12-May-11	390	<1.0	11	<2.0	0.92	<1.0	<5.0
MW-9	12-Aug-11	120	<1.0	5.6	<2.0	0.35	<1.0	<5.0
MW-9	16-Nov-11	200	<5.0	9.6	<10	0.57	<1.0	<5.0
MW-9	21-Feb-12	120	<1.0	4.2	<2.0	0.30	<1.0	<5.0
MW-9	24-May-12	3.8	<1.0	1.4	<2.0	0.076	<1.0	<5.0
MW-9	10-Sep-12	<1.0	<1.0	<1.0	<2.0	0.072	<1.0	<5.0
MW-9	04-Dec-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-9	26-Mar-13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-9	27-Jun-13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0

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-9	25-Sep-13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-9	14-Jan-14	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-9	04-Apr-14	<1.0	<1.0	<1.0	<2.0	0.075	<1.0	<5.0
MW-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
MW-10	10-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-10	15-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-10	14-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-10	21-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-10	12-May-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-10	12-Aug-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-10	16-Nov-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-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	10-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-11	15-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-11	14-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-11	21-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-11	12-May-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-11	12-Aug-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-11	16-Nov-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
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

TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS - WQCC GROUNDWATER STANDARDS (NMAC 20.6.2.3103)
BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE
Rio Arriba County, New Mexico

Radium 226/228	903.1 904.0	5.0	pCi/L	NA	1.056	NA	NA	NA	NA	NA	NA	NA	NA	3,430	2,200	5.0 (T)	NA	NA	NA	NA	NA	0.02	0.0044	NA	NA	NA	NA	NA	NA	<0.0025	NA			
pH	4500-H+B	6 to 9	-	NA	7.29	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.02	0.34	0.68 (T)	0.52	0.66	0.42	NA	NA	<0.005	NA			
Phenols	SW-846 9067	0.005		NA	0.028	<0.0025	NA	NA	NA	NA	0.015	0.019	<0.0020	0.082	<0.0020	0.019	0.015	28 (T)	0.73	0.63	0.63	0.0044	0.34	0.68 (T)	0.52	0.66	0.42	NA	NA	<0.005	NA			
Cyanide	450 OCN	0.2		NA	<0.00500	NA	NA	NA	NA	NA	<0.50	<0.50	1,800	3,500	20 (T)	0.40	<0.0020	0.082	<0.0020	0.019	0.015	28 (T)	0.73	0.63	0.66	0.42	NA	NA	NA	NA	NA			
Total Mercury	245.1	0.002		NA	<0.00020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Zinc		10.0		NA	0.077	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Silver		0.05		NA	<0.0050	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Nickel		0.2		NA	0.027	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Molybdenum		1.0		NA	<0.0080	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Manganese		0.2		0.34	0.68 (T)	0.52	0.66	0.42	0.0044	0.34	0.68 (T)	0.52	0.66	0.42	0.0044	0.34	0.68 (T)	0.52	0.66	0.42	0.0044	0.34	0.68 (T)	0.52	0.66	0.42	0.0044	0.34	0.68 (T)	0.52	0.66			
Iron		1.0		0.75	28 (T)	0.73	0.63	0.63	0.0044	0.34	0.68 (T)	0.52	0.66	0.42	0.0044	0.34	0.68 (T)	0.52	0.66	0.42	0.0044	0.34	0.68 (T)	0.52	0.66	0.42	0.0044	0.34	0.68 (T)	0.52	0.66			
Cobalt		0.05		NA	0.015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Chromium		0.05		NA	0.019	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Cadmium		0.005		NA	<0.0020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Boron		0.75		NA	0.082	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Beryllium		0.004		NA	<0.0020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Barium		2.0		NA	0.40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Aluminum		5.0		NA	20 (T)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Total Dissolved Solids (TDS)	254 OC	1,000		NA	3,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Sulfate		600		2,300	1,800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Nitrate-N		10.0		<1.0	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Nitrite-N		1.0		NA	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Chloride		250		NA	46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Fluoride		1.6		NA	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Uranium		0.03		NA	0.036	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Thallium		0.002		NA	<0.00050	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Selenium		0.05		NA	0.0014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Lead		0.015		NA	0.0092	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Copper		1.0		NA	0.020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Arsenic		0.01		NA	0.0067	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Antimony		0.006		NA	<0.0010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Sample Date	Analytical Method	200.8/6020		300.0		254 OC		200.7/6010		10.0		0.05		0.2		1.0		0.05		0.05		0.2		1.0		0.002		450 OCN		SW-846 9067		4500-H+B		
	NM WQCC Standard	0.006		0.01		1.0		0.05		0.002		0.03		1.6		250		1.0		10.0		600		1,000		5.0		2.0		0.004		0.75		0.005
Well ID																																		
MW-1	26-Mar-19	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		
MW-1	25-Sep-19	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		
MW-1	25-Mar-20	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		
MW-1	23-Jun-20	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		
MW-1	29-Sep-21	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		
MW-2	25-Mar-20	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		

TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS - WQCC GROUNDWATER STANDARDS (NMAC 20.6.2.3103)
BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE
Rio Arriba County, New Mexico

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Notes:

- < Analyte not detected above listed method limit
- NA Not analyzed
- NE Not established
- mg/L Milligrams per liter (ppm)
- (T) Total (unfiltered) concentration

Contaminants listed above are the dissolved portion of contaminants, unless otherwise specified, in accordance with NMAC 20.6.2.3103.
Bold where results are above WQCC standards.

Figures

SCHMITZ RANCH QUADRANGLE
NEW MEXICO - RIO ARriba COUNTY
1963

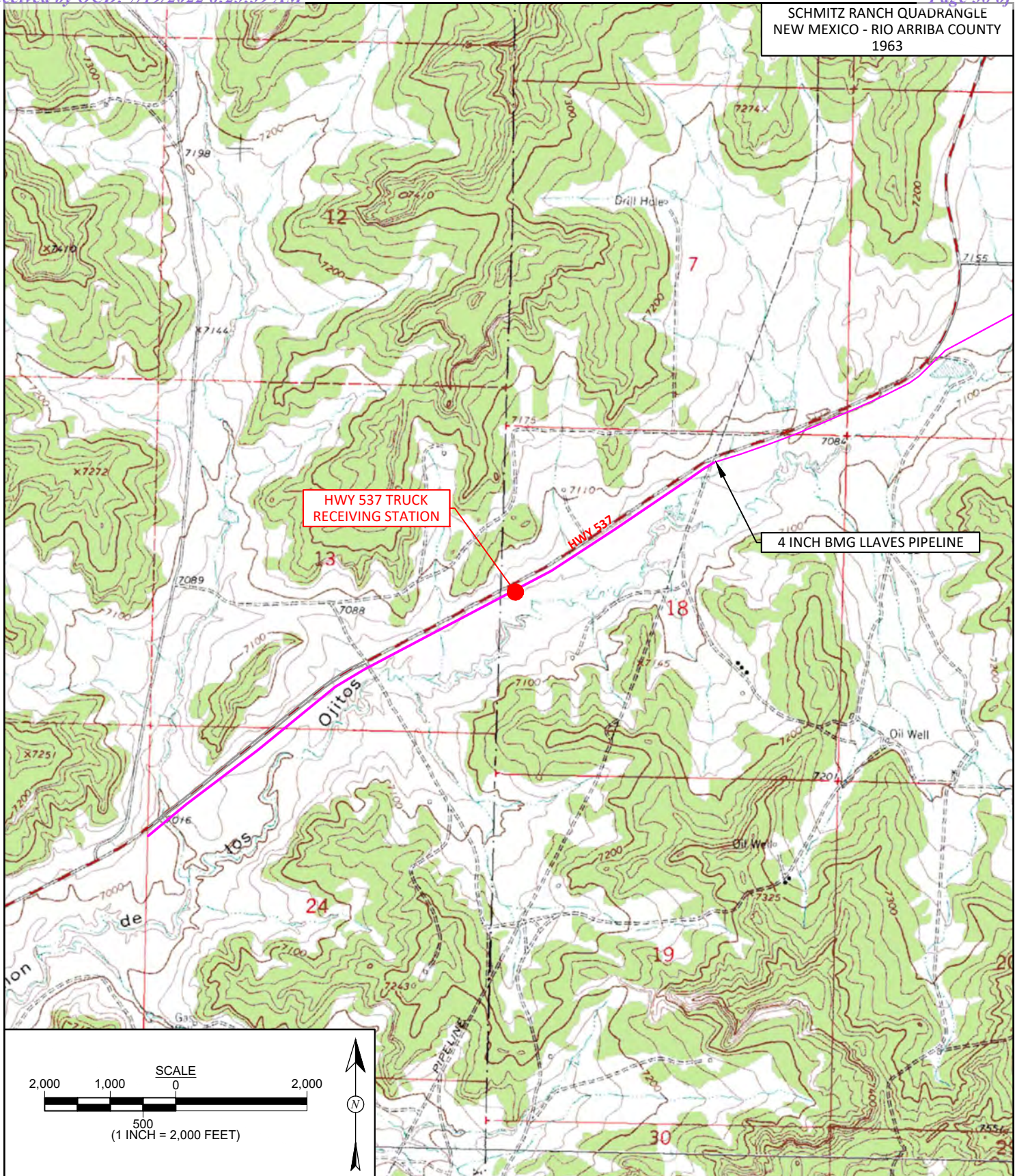


FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP
BENSON-MONTIN-GREER
LLAVES PIPELINE HWY. 537
TRUCK RECEIVING STATION 2009 RELEASE
SW ¼ NW ¼ SECTION 18, T25N, R3W
RIO ARriba COUNTY, NEW MEXICO
N36.39866, W107.19328



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services**

Farmington, NM • Durango, CO
animasenvironmental.com

DRAWN BY:

C. Lameman

DATE DRAWN:

January 10, 2013

REVISIONS BY:

C. Lameman

DATE REVISED:

September 8, 2021

CHECKED BY:

L. Cupps

DATE CHECKED:

September 8, 2021

APPROVED BY:

E. McNally

DATE APPROVED:

September 8, 2021



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

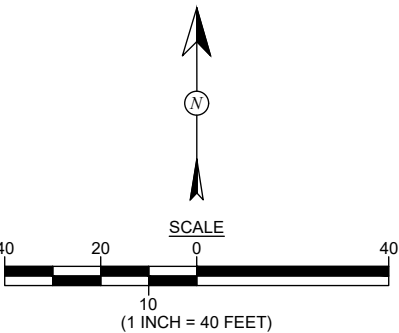
FIGURE 2

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



DRAWN BY: C. Lameman	DATE DRAWN: January 10, 2013
REVISIONS BY: C. Lameman	DATE REVISED: September 8, 2021
CHECKED BY: L. Cupps	DATE CHECKED: September 8, 2021
APPROVED BY: E. McNally	DATE APPROVED: September 8, 2021

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



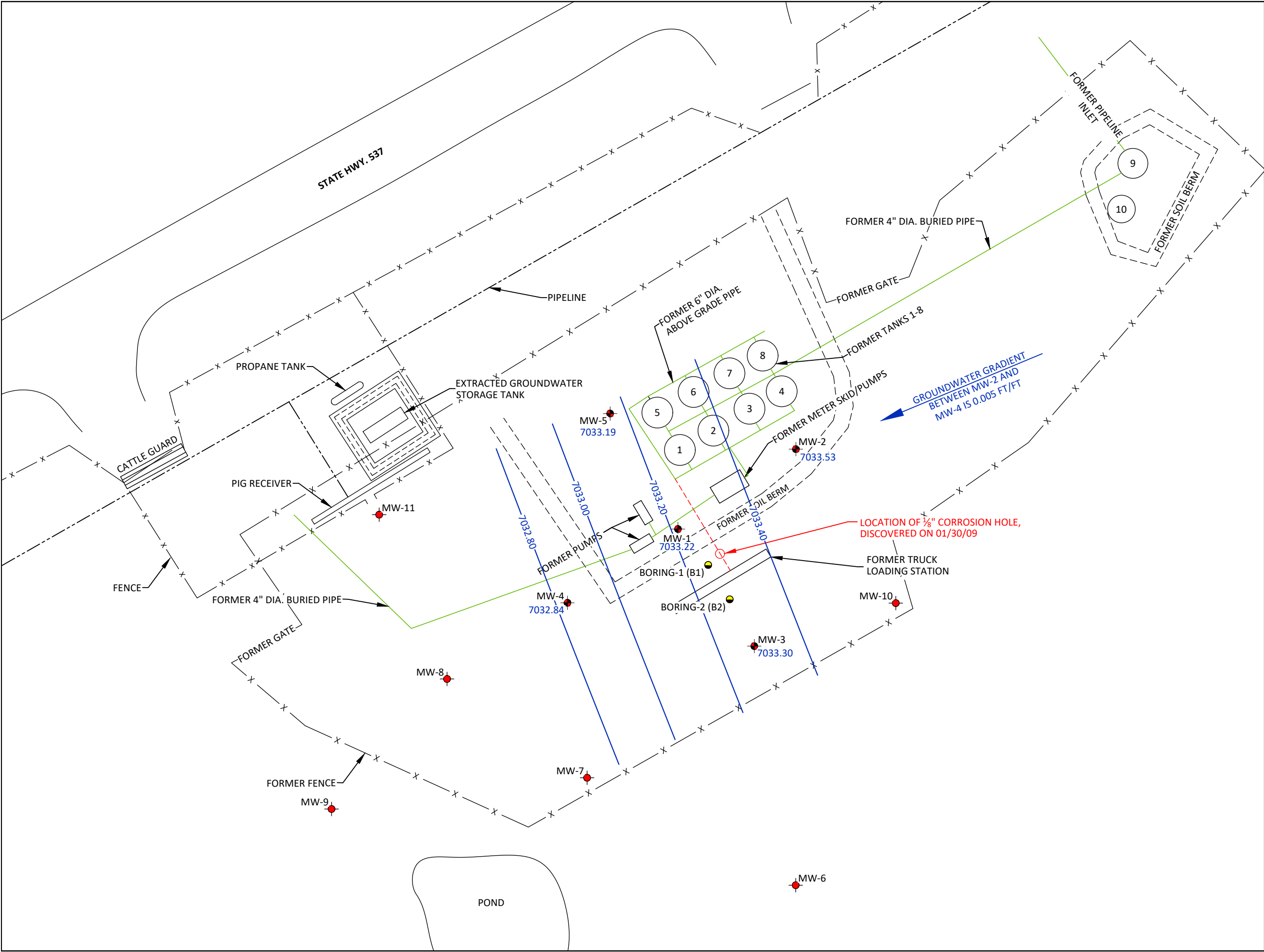


FIGURE 3A

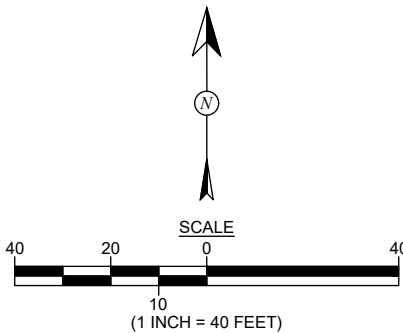
GENERAL SITE MAP AND
GROUNDWATER GRADIENT MAP
MARCH 2021

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



DRAWN BY: C. Lameman	DATE DRAWN: January 10, 2013
REVISIONS BY: C. Lameman	DATE REVISED: September 8, 2021
CHECKED BY: L. Cupps	DATE CHECKED: September 8, 2021
APPROVED BY: E. McNally	DATE APPROVED: September 8, 2021

- LEGEND**
- MONITORING WELL LOCATION (INSTALLED FEBRUARY 2009)
 - PLUGGED AND ABANDONED WELL (AUGUST 2017)
 - SOIL BORING LOCATION (SEPTEMBER 2019)
 - 7033.40 GROUNDWATER ELEVATIONS IN FEET (AMSL)
 - 7033.20- GROUNDWATER ELEVATIONS CONTOURS IN FEET (AMSL)
 - x - FENCE
- NOTE: ALL MEASUREMENTS MADE ON MARCH 17, 2021.



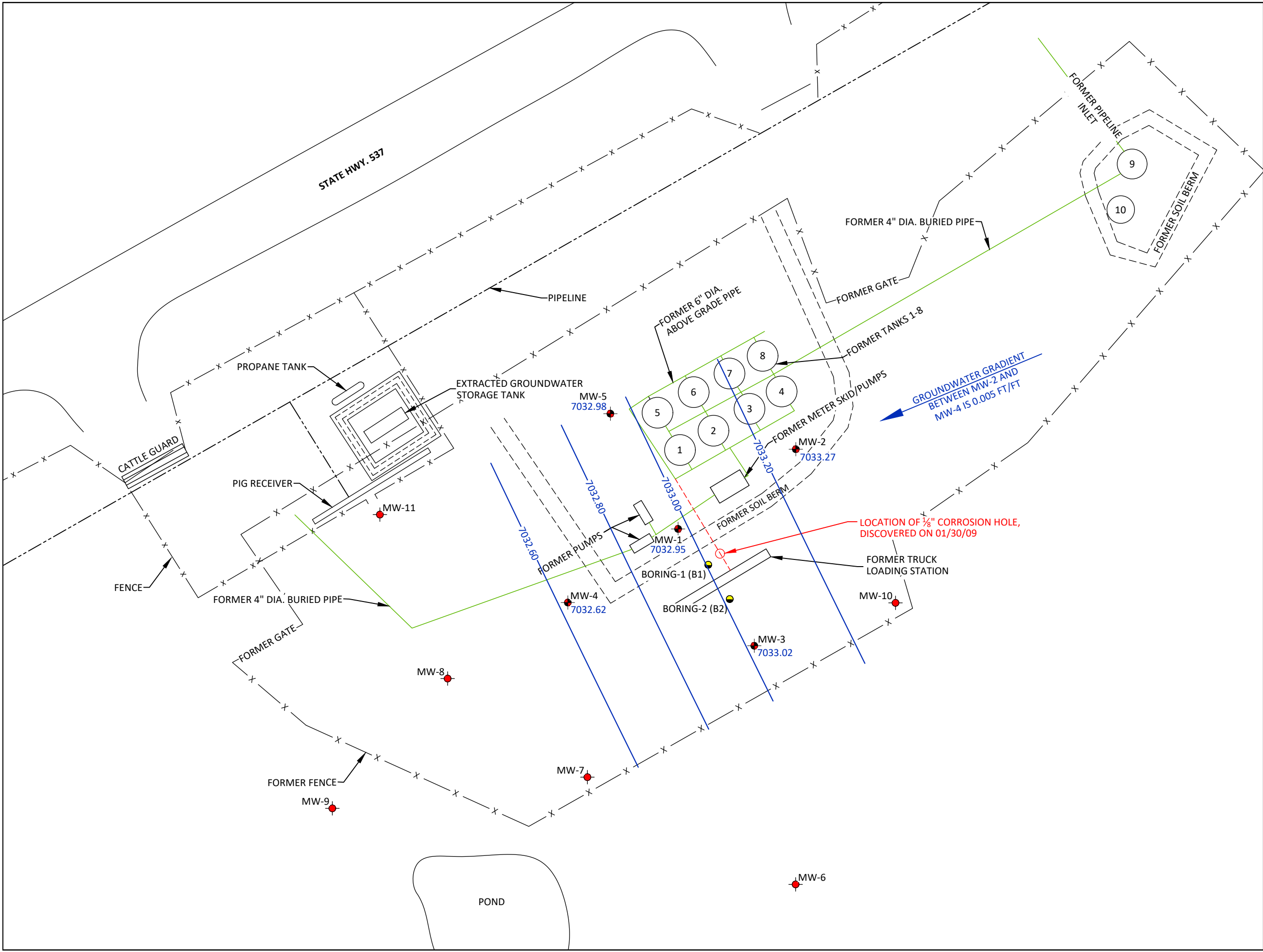


FIGURE 3B

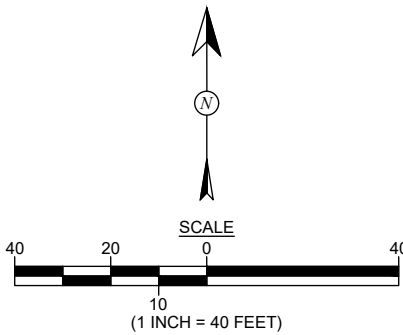
GENERAL SITE MAP AND
GROUNDWATER GRADIENT MAP
JUNE 2021

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



DRAWN BY: C. Lameman	DATE DRAWN: January 10, 2013
REVISIONS BY: C. Lameman	DATE REVISED: September 8, 2021
CHECKED BY: L. Cupps	DATE CHECKED: September 8, 2021
APPROVED BY: E. McNally	DATE APPROVED: September 8, 2021

- 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)
 - x - FENCE
- NOTE: ALL MEASUREMENTS MADE ON JUNE 17, 2021.



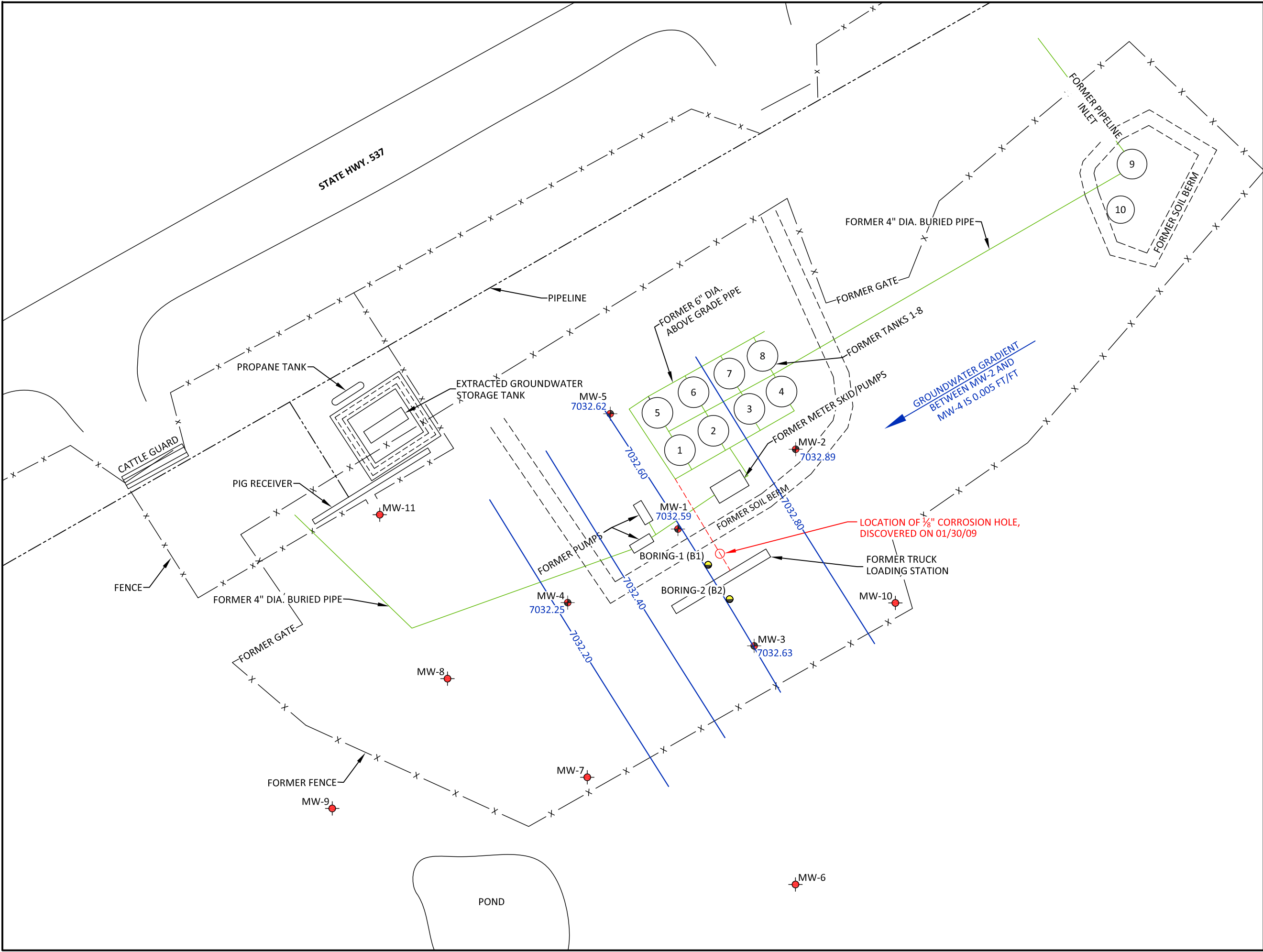


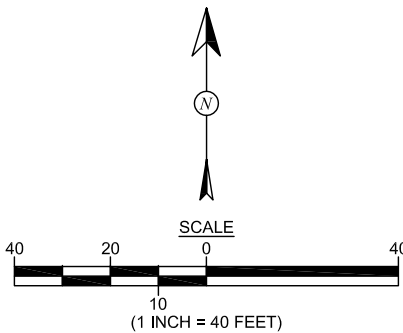
FIGURE 3C

**GENERAL SITE MAP AND
GROUNDWATER GRADIENT MAP
SEPTEMBER 2021**
BENSON-MONTIN-GREER
LLAVES PIPELINE HWY. 537
TRUCK RECEIVING STATION 2009 RELEASE
SW¼ NW¼ SECTION 18, T25N, R3W
RIO ARriba COUNTY, NEW MEXICO
N36.39866, W107.19328



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

- 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)
 - 7032.60 GROUNDWATER ELEVATIONS CONTOURS IN FEET (AMSL)
 - x — FENCE
- NOTE: ALL MEASUREMENTS MADE ON SEPTEMBER 29, 2021.



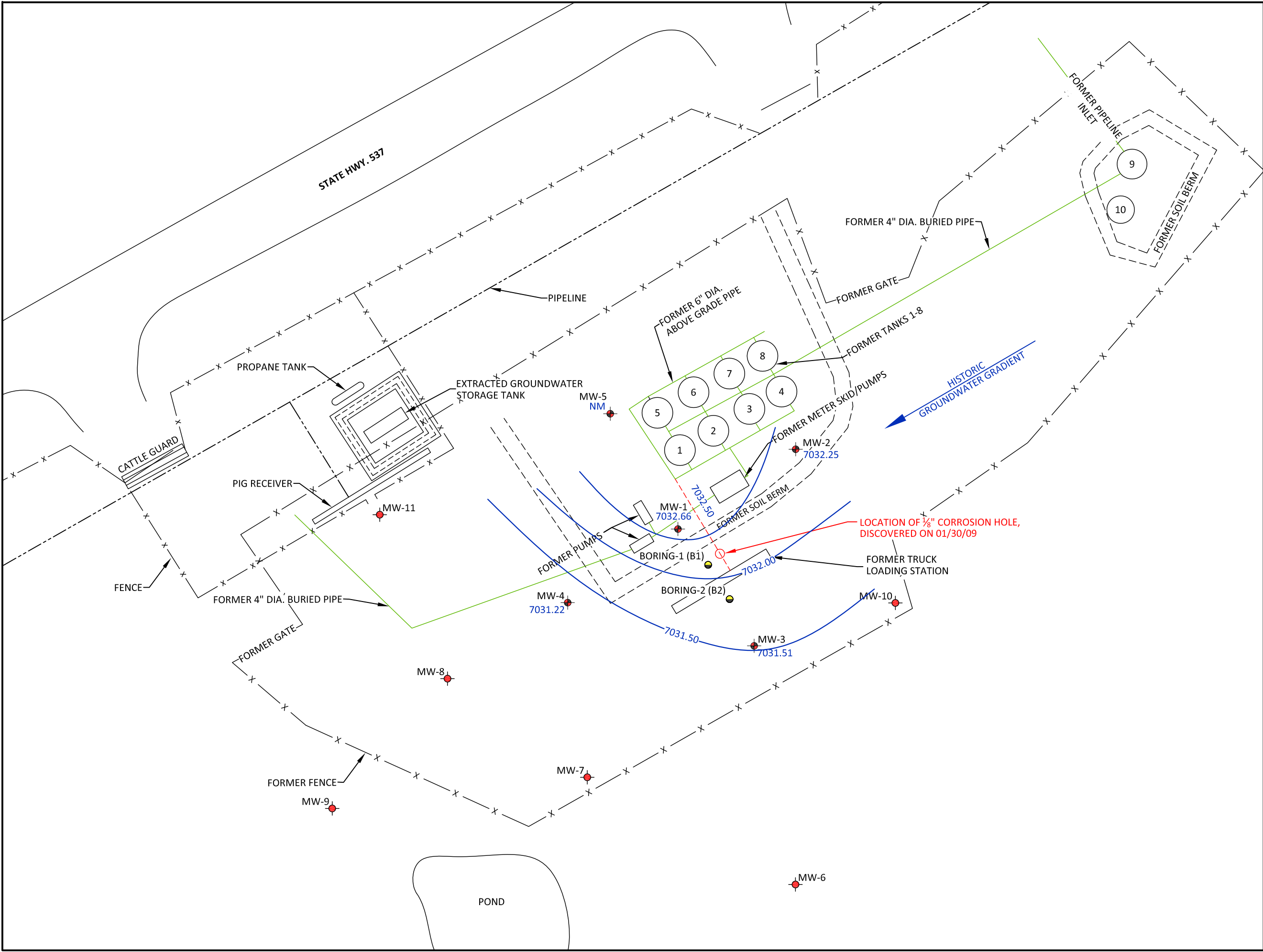


FIGURE 3D

GENERAL SITE MAP AND
GROUNDWATER GRADIENT MAP
DECEMBER 2021

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

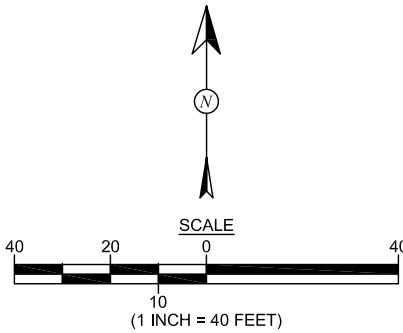


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DRAWN BY: C. Lameman	DATE DRAWN: January 10, 2013
REVISIONS BY: C. Lameman	DATE REVISED: February 8, 2022
CHECKED BY: D. Reese	DATE CHECKED: February 8, 2022
APPROVED BY: E. McNally	DATE APPROVED: February 8, 2022

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)
- x — FENCE
- NOTE: ALL MEASUREMENTS MADE ON DECEMBER 14, 2021.



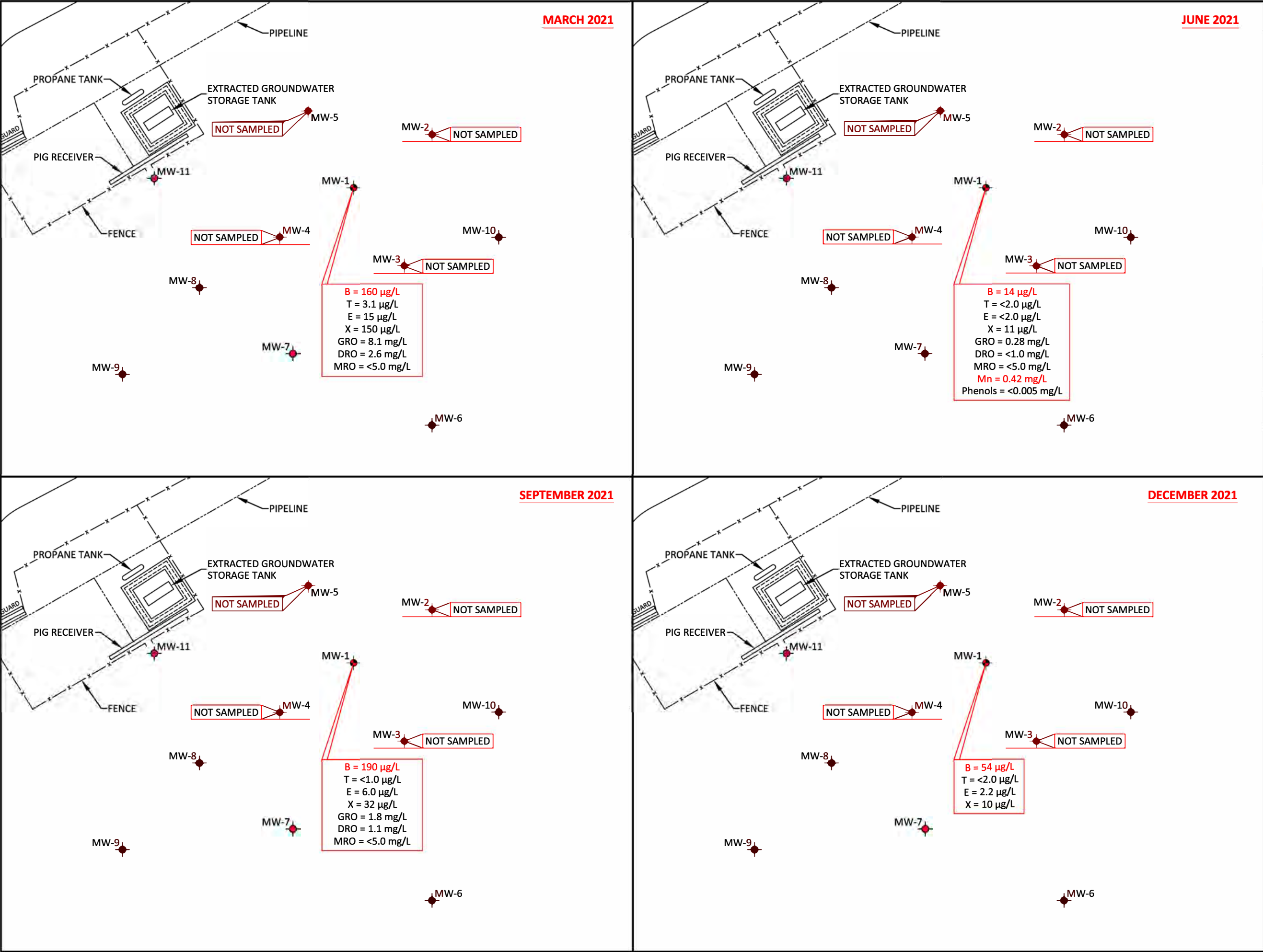


FIGURE 4

2021 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 • Durango, CO
animasenvironmental.com

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

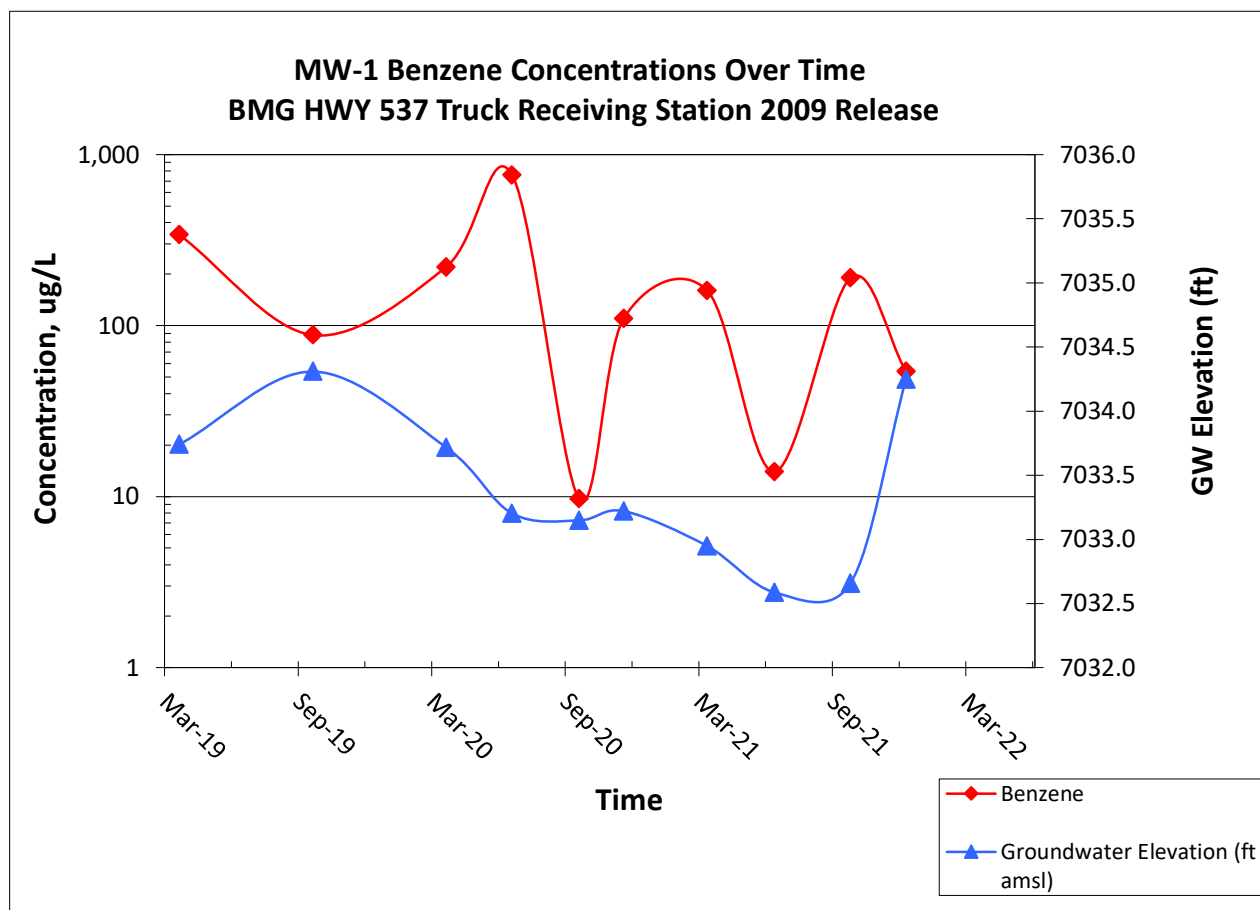
LEGEND

- MONITORING WELL LOCATION (INSTALLED FEBRUARY 2009)
- PLUGGED AND ABANDONED WELL (AUGUST 2017)
- 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
- µg/L MICROGRAMS PER LITER (ppb)
- mg/L MILLIGRAMS PER LITER (ppm)
- < BELOW DETECTION LIMIT

NOTE: ALL SAMPLES COLLECTED ON MARCH 17, JUNE 17, SEPTEMBER 29, AND DECEMBER 14, 2021. ANALYZED PER EPA METHOD 8021B, 8015D AND SELECT PARAMETERS PER NMAC 20.6.2.3103 FOR SEPTEMBER 29, 2021.

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

Graphs



Appendix

Released to Imaging: 8/4/2023 3:45:42 PM

Released to Imaging: 8/4/2023 3:45:42 PM

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: C. Lameman

Project No.:

Date: June 17, 2021

Time: 1057-1155

Form: 1 of 1

[illegible]

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

Animas Environmental Services

624 E Comanche St., Farmington NM 87401

Site: BMG

Project No.:

Location: 2009 Release

Date: June 17, 2021

Project: Groundwater Monitoring and Sampling

Arrival Time: 11:00

Sampling Technician: CL

Air Temp: 84°F Sunny, Hazy

Purge / No Purge: Purge

T.O.C. Elev. (ft): 7064.66

Well Diameter (in): 2

Total Well Depth (ft):

Initial D.T.W. (ft): —

Time: — (taken at initial gauging of all wells)

Confirm D.T.W. (ft):

Time: (taken prior to purging well)

Final D.T.W. (ft): 31.89

Time: 11:33 (taken after sample collection)

If NAPL Present: D.T.P.: 31.71

D.T.W.: 3.72

Thickness: 0.01 * Time: 11:14

Water Quality Parameters - Recorded During Well Purging

YSI # 7 6-17-21 cl

[illegible]**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 ground-No drainage to wash*

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 Surge Volume \approx N/A

2nd Attempt to Bail down sheep before sampling.

* - interface probe ok on Reading. Bailer showed <0.01 NAPL was a Sheen.

Released to Imaging: 8/4/2023 3:45:42 PM

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: AL/JD

Purge / No Purge: ☐ Purge

Well Diameter (in): 2

Initial D.T.W. (ft): —

Confirm D.T.W. (ft): —

Final D.T.W. (ft): —

If NAPL Present: D.T.P.: 32.07

Project No.:

Date: 9-29-21

Arrival Time: 11:46

Air Temp: 70°F Cloudy, sprinkles

T.O.C. Elev. (ft): 7064.66

Total Well Depth (ft): _____

(taken at initial gauging of all wells)

(taken prior to purging well)

(taken after sample collection)

If NAPL Present: D.T.P.: 32.07 D.T.W.: 32.09 Thickness: 0.02 Time: 11:48

Water Quality Parameters - Recorded During Well Purging

YSI # —

[illegible]

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

Full List VOCS per USEPA Method 8260 (5 - 40mL VOAs with HgCL2 preserve)

TPH (GRO/DRO/MRO) per USPEA Method 8015 (1 - 125mL amber glass w/ non preserve)

Phenols per USEPA Method SW-846-9067 (1-L amber glass nonpreserve)

Dissolved Mn per USEPA Method 200.7/6010 (1-125mL HNO3 preserve FILTERED)

Disposal of Purged Water: *Onsite Tank*

Collected Samples Stored on Ice in Cooler: γ_{AA}

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: Bail of NAPL Layer.

DTP: 32.12

DTW: 37.17

Thickness: <0.01 Shear Time: 12:22

Released to Imaging: 8/4/2023 3:45:42 PM

[illegible]

Released to Imaging: 8/4/2023 3:45:42 PM



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

April 13, 2021

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

RE: BMG Hwy 537 2009 Release

OrderNo.: 2103962

Dear Elizabeth McNally:

Hall Environmental Analysis Laboratory received 2 sample(s) on 3/19/2021 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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2103962

Date Reported: 4/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: MW-1

Project: BMG Hwy 537 2009 Release

Collection Date: 3/17/2021 12:15:00 PM

Lab ID: 2103962-001

Matrix: AQUEOUS

Received Date: 3/19/2021 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: JME
Diesel Range Organics (DRO)	2.6	1.0		mg/L	1	3/20/2021 6:35:20 PM	58849
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	3/20/2021 6:35:20 PM	58849
Surr: DNOP	123	63.7-164		%Rec	1	3/20/2021 6:35:20 PM	58849
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	8.1	0.25		mg/L	5	3/23/2021 3:22:00 AM	R76132
Surr: BFB	177	66.7-119	S	%Rec	5	3/23/2021 3:22:00 AM	R76132
EPA METHOD 8260B: VOLATILES							Analyst: JMR
Benzene	160	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
Toluene	3.1	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
Ethylbenzene	15	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
Methyl tert-butyl ether (MTBE)	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
1,2,4-Trimethylbenzene	56	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
1,3,5-Trimethylbenzene	31	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
1,2-Dichloroethane (EDC)	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
Naphthalene	11	4.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
1-Methylnaphthalene	13	8.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
2-Methylnaphthalene	18	8.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
Acetone	ND	20		µg/L	2	3/27/2021 3:13:57 AM	A76266
Bromobenzene	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
Bromodichloromethane	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
Bromoform	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
Bromomethane	ND	6.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
2-Butanone	ND	20		µg/L	2	3/27/2021 3:13:57 AM	A76266
Carbon disulfide	ND	20		µg/L	2	3/27/2021 3:13:57 AM	A76266
Carbon Tetrachloride	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
Chlorobenzene	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
Chloroethane	ND	4.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
Chloroform	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
Chloromethane	ND	6.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
2-Chlorotoluene	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
4-Chlorotoluene	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
cis-1,2-DCE	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
cis-1,3-Dichloropropene	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
1,2-Dibromo-3-chloropropane	ND	4.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
Dibromochloromethane	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
Dibromomethane	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
1,2-Dichlorobenzene	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266

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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 1 of 9

Analytical Report

Lab Order 2103962

Date Reported: 4/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: MW-1

Project: BMG Hwy 537 2009 Release

Collection Date: 3/17/2021 12:15:00 PM

Lab ID: 2103962-001

Matrix: AQUEOUS

Received Date: 3/19/2021 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JMR
1,3-Dichlorobenzene	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
1,4-Dichlorobenzene	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
Dichlorodifluoromethane	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
1,1-Dichloroethane	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
1,1-Dichloroethene	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
1,2-Dichloropropane	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
1,3-Dichloropropane	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
2,2-Dichloropropane	ND	4.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
1,1-Dichloropropene	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
Hexachlorobutadiene	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
2-Hexanone	ND	20		µg/L	2	3/27/2021 3:13:57 AM	A76266
Isopropylbenzene	3.5	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
4-Isopropyltoluene	3.6	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
4-Methyl-2-pentanone	ND	20		µg/L	2	3/27/2021 3:13:57 AM	A76266
Methylene Chloride	ND	6.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
n-Butylbenzene	ND	6.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
n-Propylbenzene	4.3	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
sec-Butylbenzene	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
Styrene	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
tert-Butylbenzene	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
1,1,2,2-Tetrachloroethane	ND	4.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
Tetrachloroethene (PCE)	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
trans-1,2-DCE	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
trans-1,3-Dichloropropene	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
1,2,3-Trichlorobenzene	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
1,2,4-Trichlorobenzene	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
1,1,1-Trichloroethane	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
1,1,2-Trichloroethane	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
Trichloroethene (TCE)	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
Trichlorofluoromethane	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
1,2,3-Trichloropropane	ND	4.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
Vinyl chloride	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
Xylenes, Total	150	3.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	2	3/27/2021 3:13:57 AM	A76266
Surr: 4-Bromofluorobenzene	86.6	70-130		%Rec	2	3/27/2021 3:13:57 AM	A76266
Surr: Dibromofluoromethane	96.6	70-130		%Rec	2	3/27/2021 3:13:57 AM	A76266
Surr: Toluene-d8	97.5	70-130		%Rec	2	3/27/2021 3:13:57 AM	A76266

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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 2 of 9

Analytical Report

Lab Order 2103962

Date Reported: 4/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Trip Blank

Project: BMG Hwy 537 2009 Release

Collection Date:

Lab ID: 2103962-002

Matrix: TRIP BLANK

Received Date: 3/19/2021 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JMR
Benzene	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
Toluene	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
Ethylbenzene	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
Naphthalene	ND	2.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
1-Methylnaphthalene	ND	4.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
2-Methylnaphthalene	ND	4.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
Acetone	ND	10		µg/L	1	3/27/2021 4:39:38 AM	A76266
Bromobenzene	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
Bromodichloromethane	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
Bromoform	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
Bromomethane	ND	3.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
2-Butanone	ND	10		µg/L	1	3/27/2021 4:39:38 AM	A76266
Carbon disulfide	ND	10		µg/L	1	3/27/2021 4:39:38 AM	A76266
Carbon Tetrachloride	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
Chlorobenzene	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
Chloroethane	ND	2.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
Chloroform	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
Chloromethane	ND	3.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
2-Chlorotoluene	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
4-Chlorotoluene	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
cis-1,2-DCE	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
Dibromochloromethane	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
Dibromomethane	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
1,1-Dichloroethane	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
1,1-Dichloroethene	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
1,2-Dichloropropane	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
1,3-Dichloropropane	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
2,2-Dichloropropane	ND	2.0		µg/L	1	3/27/2021 4:39:38 AM	A76266

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	Value above quantitation range
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Analytical Report

Lab Order 2103962

Date Reported: 4/13/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Trip Blank

Project: BMG Hwy 537 2009 Release

Collection Date:

Lab ID: 2103962-002

Matrix: TRIP BLANK

Received Date: 3/19/2021 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JMR
1,1-Dichloropropene	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
Hexachlorobutadiene	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
2-Hexanone	ND	10		µg/L	1	3/27/2021 4:39:38 AM	A76266
Isopropylbenzene	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
4-Isopropyltoluene	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
4-Methyl-2-pentanone	ND	10		µg/L	1	3/27/2021 4:39:38 AM	A76266
Methylene Chloride	ND	3.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
n-Butylbenzene	ND	3.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
n-Propylbenzene	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
sec-Butylbenzene	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
Styrene	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
tert-Butylbenzene	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
trans-1,2-DCE	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
Trichlorofluoromethane	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
Vinyl chloride	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
Xylenes, Total	ND	1.5		µg/L	1	3/27/2021 4:39:38 AM	A76266
Surr: 1,2-Dichloroethane-d4	96.6	70-130		%Rec	1	3/27/2021 4:39:38 AM	A76266
Surr: 4-Bromofluorobenzene	92.4	70-130		%Rec	1	3/27/2021 4:39:38 AM	A76266
Surr: Dibromofluoromethane	104	70-130		%Rec	1	3/27/2021 4:39:38 AM	A76266
Surr: Toluene-d8	107	70-130		%Rec	1	3/27/2021 4:39:38 AM	A76266

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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2103962

13-Apr-21

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

Sample ID: MB-58849	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range								
Client ID: PBW	Batch ID: 58849	RunNo: 76096								
Prep Date: 3/19/2021	Analysis Date: 3/20/2021	SeqNo: 2694195		Units: mg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	1.1		1.000		110	63.7	164			

Sample ID: LCS-58849	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range								
Client ID: LCSW	Batch ID: 58849	RunNo: 76096								
Prep Date: 3/19/2021	Analysis Date: 3/20/2021	SeqNo: 2694196		Units: mg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.2	1.0	5.000	0	105	70	130			
Surr: DNOP	0.55		0.5000		110	63.7	164			

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 Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2103962

13-Apr-21

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: R76132		RunNo: 76132							
Prep Date:	Analysis Date: 3/23/2021		SeqNo: 2695414		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.52	0.050	0.5000	0	104	72.5	114			
Surr: BFB	21		20.00		106	66.7	119			

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBW	Batch ID: R76132		RunNo: 76132							
Prep Date:	Analysis Date: 3/23/2021		SeqNo: 2695415		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	17		20.00		85.2	66.7	119			

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 Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2103962

13-Apr-21

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: A76266			RunNo: 76266						
Prep Date:	Analysis Date: 3/26/2021			SeqNo: 2700496		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	101	70	130			
Toluene	20	1.0	20.00	0	98.2	70	130			
Chlorobenzene	19	1.0	20.00	0	96.7	70	130			
1,1-Dichloroethene	19	1.0	20.00	0	97.4	70	130			
Trichloroethene (TCE)	18	1.0	20.00	0	90.4	70	130			
Surr: 1,2-Dichloroethane-d4	9.1		10.00		90.7	70	130			
Surr: 4-Bromofluorobenzene	9.5		10.00		95.3	70	130			
Surr: Dibromofluoromethane	9.6		10.00		95.8	70	130			
Surr: Toluene-d8	10		10.00		103	70	130			

Sample ID: mb	SampType: MBLK			TestCode: EPA Method 8260B: VOLATILES						
Client ID: PBW	Batch ID: A76266			RunNo: 76266						
Prep Date:	Analysis Date: 3/26/2021			SeqNo: 2700497		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 Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2103962

13-Apr-21

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: A76266	RunNo: 76266								
Prep Date:	Analysis Date: 3/26/2021	SeqNo: 2700497	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 Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 8 of 9

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2103962

13-Apr-21

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: A76266	RunNo: 76266								
Prep Date:	Analysis Date: 3/26/2021	SeqNo: 2700497		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	8.7		10.00		87.0	70	130			
Surr: 4-Bromofluorobenzene	9.2		10.00		92.2	70	130			
Surr: Dibromofluoromethane	10		10.00		105	70	130			
Surr: Toluene-d8	10		10.00		103	70	130			

Sample ID: 2103962-001ams	SampType: MS	TestCode: EPA Method 8260B: VOLATILES								
Client ID: MW-1	Batch ID: A76266	RunNo: 76266								
Prep Date:	Analysis Date: 3/27/2021	SeqNo: 2700507		Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	170	2.0	40.00	157.1	33.6	70	130			S
Toluene	42	2.0	40.00	3.128	98.4	70	130			
Chlorobenzene	40	2.0	40.00	0	99.8	70	130			
1,1-Dichloroethene	35	2.0	40.00	0	87.9	70	130			
Trichloroethene (TCE)	35	2.0	40.00	0	87.5	70	130			
Surr: 1,2-Dichloroethane-d4	18		20.00		92.5	70	130			
Surr: 4-Bromofluorobenzene	19		20.00		92.7	70	130			
Surr: Dibromofluoromethane	17		20.00		86.5	70	130			
Surr: Toluene-d8	20		20.00		102	70	130			

Sample ID: 2103962-001amsd	SampType: MSD	TestCode: EPA Method 8260B: VOLATILES								
Client ID: MW-1	Batch ID: A76266	RunNo: 76266								
Prep Date:	Analysis Date: 3/27/2021	SeqNo: 2700508		Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	160	2.0	40.00	157.1	1.32	70	130	7.86	20	S
Toluene	40	2.0	40.00	3.128	91.0	70	130	7.24	20	
Chlorobenzene	37	2.0	40.00	0	92.8	70	130	7.22	20	
1,1-Dichloroethene	32	2.0	40.00	0	81.0	70	130	8.17	20	
Trichloroethene (TCE)	33	2.0	40.00	0	81.6	70	130	7.07	20	
Surr: 1,2-Dichloroethane-d4	19		20.00		97.3	70	130	0	0	
Surr: 4-Bromofluorobenzene	19		20.00		93.2	70	130	0	0	
Surr: Dibromofluoromethane	18		20.00		87.8	70	130	0	0	
Surr: Toluene-d8	20		20.00		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 Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit



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: **2103962**

RcptNo: 1

Received By: **Juan Rojas**

3/19/2021 8:40:00 AM

Juan Rojas

Completed By: **Sean Livingston**

3/19/2021 9:15:16 AM

Sean Livingston

Reviewed By:

JR 3/19/21

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 $>0^{\circ}\text{C}$ 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: *CR 3/19/21*

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:

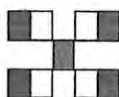
Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.4	Good				

**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**



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

BMG Hwy 537 2009 Release

Project #:

Phone #: 505-564-2281

Email or Fax#: emcnally@animasenvironmental.com

QA/QC Package:

☐ Level 4 (Full Validation)

Accreditation:

☐ NELAP ☐ Other

☐ EDD (Type) -

Sampler: E Hubbert

On Ice: ☐ Yes

Sample Temperature: $1.2 + 0.2 = 1.4$

Date	Time	Matrix	Sample Request ID
------	------	--------	-------------------

Container Type and #

Preservative
Type

HEAL No.

3/17/21	12/15
---------	-------

 H_2O

MW-1

5- 40 mL VOA
250 mL amber glass

5 - HgCl₂
1 - cool

100

H₂O

Trip Blanks

2-40mL VOA

2- HgCl₂

40

Date:	Time:
-------	-------

Time:

Relinquished by:

Received by:

Date	Time
------	------

3	
---	--

Date:	Time:
-------	-------

Time:

Relinquished by:

Received by:

Date _____ Time _____

[illegible]

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

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

June 28, 2021

Eddie Hubbert

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

RE: BMG Hwy 537 2009 Release

OrderNo.: 2106A63

Dear Eddie Hubbert:

Hall Environmental Analysis Laboratory received 2 sample(s) on 6/19/2021 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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2106A63

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: MW-1

Project: BMG Hwy 537 2009 Release

Collection Date: 6/17/2021 11:32:00 AM

Lab ID: 2106A63-001

Matrix: AQUEOUS

Received Date: 6/19/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	0.28	0.10		mg/L	2	6/23/2021 1:08:00 PM	G79292
Surr: 4-Bromofluorobenzene	99.9	70-130		%Rec	2	6/23/2021 1:08:00 PM	G79292
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: TOM
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	6/23/2021 8:51:43 PM	60827
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	6/23/2021 8:51:43 PM	60827
Surr: DNOP	107	63.7-164		%Rec	1	6/23/2021 8:51:43 PM	60827
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: RAA
Benzene	14	2.0		µg/L	2	6/23/2021 1:08:00 PM	S79292
Toluene	ND	2.0		µg/L	2	6/23/2021 1:08:00 PM	S79292
Ethylbenzene	ND	2.0		µg/L	2	6/23/2021 1:08:00 PM	S79292
Xylenes, Total	11	3.0		µg/L	2	6/23/2021 1:08:00 PM	S79292
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	2	6/23/2021 1:08:00 PM	S79292
Surr: Dibromofluoromethane	101	70-130		%Rec	2	6/23/2021 1:08:00 PM	S79292
Surr: Toluene-d8	95.2	70-130		%Rec	2	6/23/2021 1:08:00 PM	S79292

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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2106A63

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Trip Blank

Project: BMG Hwy 537 2009 Release

Collection Date:

Lab ID: 2106A63-002

Matrix: TRIP BLANK

Received Date: 6/19/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	1.0		µg/L	1	6/23/2021 3:04:00 PM	S79292
Toluene	ND	1.0		µg/L	1	6/23/2021 3:04:00 PM	S79292
Ethylbenzene	ND	1.0		µg/L	1	6/23/2021 3:04:00 PM	S79292
Xylenes, Total	ND	1.5		µg/L	1	6/23/2021 3:04:00 PM	S79292
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	6/23/2021 3:04:00 PM	S79292
Surr: Dibromofluoromethane	102	70-130		%Rec	1	6/23/2021 3:04:00 PM	S79292
Surr: Toluene-d8	96.6	70-130		%Rec	1	6/23/2021 3:04:00 PM	S79292

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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 2 of 5

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2106A63

28-Jun-21

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

Sample ID: MB-60827	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range								
Client ID: PBW	Batch ID: 60827	RunNo: 79239								
Prep Date: 6/22/2021	Analysis Date: 6/23/2021	SeqNo: 2786811			Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	0.51		0.5000		103	63.7	164			

Sample ID: LCS-60827	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range								
Client ID: LCSW	Batch ID: 60827	RunNo: 79239								
Prep Date: 6/22/2021	Analysis Date: 6/23/2021	SeqNo: 2786812			Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	2.5	1.0	2.500	0	98.8	70	130			
Surr: DNOP	0.27		0.2500		107	63.7	164			

Sample ID: MB-60913	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range								
Client ID: PBW	Batch ID: 60913	RunNo: 79239								
Prep Date: 6/25/2021	Analysis Date: 6/25/2021	SeqNo: 2788671			Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	0.56		0.5000		112	63.7	164			

Sample ID: LCS-60913	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range								
Client ID: LCSW	Batch ID: 60913	RunNo: 79239								
Prep Date: 6/25/2021	Analysis Date: 6/25/2021	SeqNo: 2788672			Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	0.30		0.2500		121	63.7	164			

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 Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 3 of 5

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2106A63

28-Jun-21

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

Sample ID: 100ng 8260 lcs	SampType: LCS	TestCode: EPA Method 8260: Volatiles Short List								
Client ID: LCSW	Batch ID: S79292	RunNo: 79292								
Prep Date:	Analysis Date: 6/23/2021	SeqNo: 2786263			Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	102	70	130			
Toluene	19	1.0	20.00	0	93.9	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		105	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	9.5		10.00		94.8	70	130			

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8260: Volatiles Short List								
Client ID: PBW	Batch ID: S79292	RunNo: 79292								
Prep Date:	Analysis Date: 6/23/2021	SeqNo: 2786264			Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		104	70	130			
Surr: 4-Bromofluorobenzene	9.7		10.00		96.8	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	9.7		10.00		97.1	70	130			

Sample ID: 2106A63-001ams	SampType: MS	TestCode: EPA Method 8260: Volatiles Short List								
Client ID: MW-1	Batch ID: R79292	RunNo: 79292								
Prep Date:	Analysis Date: 6/23/2021	SeqNo: 2786821			Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	21		20.00		107	70	130			
Surr: 4-Bromofluorobenzene	20		20.00		98.9	70	130			
Surr: Dibromofluoromethane	20		20.00		101	70	130			
Surr: Toluene-d8	20		20.00		97.5	70	130			

Sample ID: 2106A63-001amsd	SampType: MSD	TestCode: EPA Method 8260: Volatiles Short List								
Client ID: MW-1	Batch ID: R79292	RunNo: 79292								
Prep Date:	Analysis Date: 6/23/2021	SeqNo: 2786824			Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	21		20.00		104	70	130	0	0	
Surr: 4-Bromofluorobenzene	19		20.00		96.9	70	130	0	0	
Surr: Dibromofluoromethane	20		20.00		98.0	70	130	0	0	
Surr: Toluene-d8	19		20.00		96.2	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 Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2106A63

28-Jun-21

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: G79292		RunNo: 79292							
Prep Date:	Analysis Date: 6/23/2021		SeqNo: 2786297		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.47	0.050	0.5000	0	94.4	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130			

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBW	Batch ID: G79292		RunNo: 79292							
Prep Date:	Analysis Date: 6/23/2021		SeqNo: 2786299		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: 4-Bromofluorobenzene	9.5		10.00		95.0	70	130			

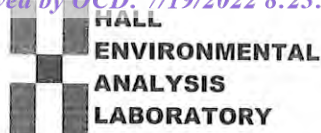
Sample ID: 2106A63-001ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: MW-1	Batch ID: G79292		RunNo: 79292							
Prep Date:	Analysis Date: 6/23/2021		SeqNo: 2786826		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.53	0.050	0.2500	0.2760	103	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		99.4	70	130			

Sample ID: 2106A63-001amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: MW-1	Batch ID: G79292		RunNo: 79292							
Prep Date:	Analysis Date: 6/23/2021		SeqNo: 2786827		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.51	0.050	0.2500	0.2760	95.2	70	130	3.82	20	
Surr: 4-Bromofluorobenzene	10		10.00		101	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 Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit



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: 2106A63

RcptNo: 1

Received By: Desiree Dominguez 6/19/2021 8:40:00 AM

Completed By: Desiree Dominguez 6/19/2021 10:31:04 AM

Reviewed By: SPA 6.21.21

ID3

ID3

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 $>0^{\circ}\text{C}$ 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: T.C. 6.21.21

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	1.7	Good	Yes			



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

October 15, 2021

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

RE: BMG Hwy 537 2009 Release

OrderNo.: 2109H26

Dear Angela Ledgerwood:

Hall Environmental Analysis Laboratory received 1 sample(s) on 9/30/2021 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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2109H26

Date Reported: 10/15/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: MW-1

Project: BMG Hwy 537 2009 Release

Collection Date: 9/29/2021 12:18:00 PM

Lab ID: 2109H26-001

Matrix: AQUEOUS

Received Date: 9/30/2021 7:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 200.7: DISSOLVED METALS							Analyst: ELS
Manganese	0.42	0.0020	*	mg/L	1	10/4/2021 12:47:19 PM	A81767
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	1.8	0.050		mg/L	1	10/2/2021 12:28:23 AM	G81766
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	10/2/2021 12:28:23 AM	G81766
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: SB
Diesel Range Organics (DRO)	1.1	1.0		mg/L	1	10/8/2021 7:28:10 PM	63071
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	10/8/2021 7:28:10 PM	63071
Surr: DNOP	85.6	64.8-167		%Rec	1	10/8/2021 7:28:10 PM	63071
EPA METHOD 8260B: VOLATILES							Analyst: RAA
Benzene	190	10		µg/L	10	10/5/2021 3:43:11 PM	W81831
Toluene	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
Ethylbenzene	6.0	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
1,2,4-Trimethylbenzene	17	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
1,3,5-Trimethylbenzene	9.1	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
Naphthalene	2.7	2.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
1-Methylnaphthalene	4.0	4.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
2-Methylnaphthalene	4.2	4.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
Acetone	ND	10		µg/L	1	10/2/2021 12:28:23 AM	R81766
Bromobenzene	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
Bromodichloromethane	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
Bromoform	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
Bromomethane	ND	3.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
2-Butanone	ND	10		µg/L	1	10/2/2021 12:28:23 AM	R81766
Carbon disulfide	ND	10		µg/L	1	10/2/2021 12:28:23 AM	R81766
Carbon Tetrachloride	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
Chlorobenzene	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
Chloroethane	ND	2.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
Chloroform	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
Chloromethane	ND	3.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
2-Chlorotoluene	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
4-Chlorotoluene	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
cis-1,2-DCE	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
Dibromochloromethane	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766

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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 10

Analytical Report

Lab Order 2109H26

Date Reported: 10/15/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: MW-1

Project: BMG Hwy 537 2009 Release

Collection Date: 9/29/2021 12:18:00 PM

Lab ID: 2109H26-001

Matrix: AQUEOUS

Received Date: 9/30/2021 7:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: RAA
Dibromomethane	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
1,1-Dichloroethane	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
1,1-Dichloroethene	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
1,2-Dichloropropane	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
1,3-Dichloropropane	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
2,2-Dichloropropane	ND	2.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
1,1-Dichloropropene	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
Hexachlorobutadiene	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
2-Hexanone	ND	10		µg/L	1	10/2/2021 12:28:23 AM	R81766
Isopropylbenzene	1.5	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
4-Isopropyltoluene	1.4	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
4-Methyl-2-pentanone	ND	10		µg/L	1	10/2/2021 12:28:23 AM	R81766
Methylene Chloride	ND	3.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
n-Butylbenzene	ND	3.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
n-Propylbenzene	1.9	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
sec-Butylbenzene	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
Styrene	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
tert-Butylbenzene	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
trans-1,2-DCE	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
Trichlorofluoromethane	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
Vinyl chloride	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
Xylenes, Total	32	1.5		µg/L	1	10/2/2021 12:28:23 AM	R81766
Surr: 1,2-Dichloroethane-d4	111	70-130		%Rec	1	10/2/2021 12:28:23 AM	R81766
Surr: 4-Bromofluorobenzene	94.2	70-130		%Rec	1	10/2/2021 12:28:23 AM	R81766
Surr: Dibromofluoromethane	97.7	70-130		%Rec	1	10/2/2021 12:28:23 AM	R81766

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 Quantitative Limit
	S	% Recovery outside of range due to dilution or matrix

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Page 2 of 10

Analytical Report

Lab Order **2109H26**Date Reported: **10/15/2021****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Animas Environmental Services**Client Sample ID:** MW-1**Project:** BMG Hwy 537 2009 Release**Collection Date:** 9/29/2021 12:18:00 PM**Lab ID:** 2109H26-001**Matrix:** AQUEOUS**Received Date:** 9/30/2021 7:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: RAA
Surr: Toluene-d8	100	70-130		%Rec	1	10/2/2021 12:28:23 AM	R81766
TOTAL PHENOLICS BY SW-846 9067							Analyst: JPM
Phenolics	ND	5.0		µg/L	1	10/11/2021 9:15:00 AM	63188

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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 3 of 10

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2109H26

15-Oct-21

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

Sample ID: MB	SampType: MBLK	TestCode: EPA Method 200.7: Dissolved Metals								
Client ID: PBW	Batch ID: A81767	RunNo: 81767								
Prep Date:	Analysis Date: 10/4/2021	SeqNo: 2891360 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Manganese	ND	0.0020								

Sample ID: LLCS	SampType: LCSLL	TestCode: EPA Method 200.7: Dissolved Metals								
Client ID: BatchQC	Batch ID: A81767	RunNo: 81767								
Prep Date:	Analysis Date: 10/4/2021	SeqNo: 2891362 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	SampType: LCS	TestCode: EPA Method 200.7: Dissolved Metals								
Client ID: LCSW	Batch ID: A81767	RunNo: 81767								
Prep Date:	Analysis Date: 10/4/2021	SeqNo: 2891364 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Manganese	0.48	0.0020	0.5000	0	95.4	85	115			

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 Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2109H26
15-Oct-21

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

Sample ID: MB-63071	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range								
Client ID: PBW	Batch ID: 63071	RunNo: 81862								
Prep Date: 10/6/2021	Analysis Date: 10/8/2021	SeqNo: 2898361		Units: mg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	0.51		0.5000		102	64.8	167			

Sample ID: LCS-63071	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range								
Client ID: LCSW	Batch ID: 63071	RunNo: 81862								
Prep Date: 10/6/2021	Analysis Date: 10/8/2021	SeqNo: 2898362		Units: mg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	2.5	1.0	2.500	0	102	73	138			
Surr: DNOP	0.29		0.2500		117	64.8	167			

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 Quantitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 5 of 10

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2109H26

15-Oct-21

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: R81766			RunNo: 81766						
Prep Date:	Analysis Date: 10/1/2021			SeqNo: 2891234		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Toluene	19	1.0	20.00	0	96.1	70	130			
Chlorobenzene	20	1.0	20.00	0	99.1	70	130			
1,1-Dichloroethene	19	1.0	20.00	0	96.7	70	130			
Trichloroethene (TCE)	21	1.0	20.00	0	107	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		112	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130			
Surr: Dibromofluoromethane	10		10.00		103	70	130			
Surr: Toluene-d8	10		10.00		102	70	130			

Sample ID: mb	SampType: MBLK			TestCode: EPA Method 8260B: VOLATILES						
Client ID: PBW	Batch ID: R81766			RunNo: 81766						
Prep Date:	Analysis Date: 10/1/2021			SeqNo: 2891254		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								

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 Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2109H26

15-Oct-21

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: R81766			RunNo: 81766						
Prep Date:	Analysis Date: 10/1/2021			SeqNo: 2891254	Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								

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 Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2109H26

15-Oct-21

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: R81766	RunNo: 81766								
Prep Date:	Analysis Date: 10/1/2021	SeqNo: 2891254	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	12		10.00		116	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	11		10.00		106	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Sample ID: 100ng lcs	SampType: LCS	TestCode: EPA Method 8260B: VOLATILES								
Client ID: LCSW	Batch ID: W81831	RunNo: 81831								
Prep Date:	Analysis Date: 10/5/2021	SeqNo: 2894780	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	26	1.0	20.00	0	129	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		107	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	10		10.00		103	70	130			

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES								
Client ID: PBW	Batch ID: W81831	RunNo: 81831								
Prep Date:	Analysis Date: 10/5/2021	SeqNo: 2894784	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		113	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		99.7	70	130			
Surr: Dibromofluoromethane	10		10.00		105	70	130			
Surr: Toluene-d8	10		10.00		105	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 Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2109H26
15-Oct-21

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

Sample ID: MB-63188		SampType: MBLK		TestCode: Total Phenolics by SW-846 9067						
Client ID: PBW		Batch ID: 63188		RunNo: 81937						
Prep Date: 10/11/2021		Analysis Date: 10/11/2021		SeqNo: 2900363		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Phenolics	ND	5.0								

Sample ID: LCS-63188		SampType: LCS		TestCode: Total Phenolics by SW-846 9067						
Client ID: LCSW		Batch ID: 63188		RunNo: 81937						
Prep Date: 10/11/2021		Analysis Date: 10/11/2021		SeqNo: 2900364		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Phenolics	17	5.0	20.00	0	86.6	54.7	121			

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 Quantitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2109H26

15-Oct-21

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

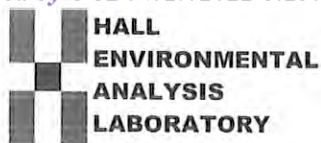
Sample ID: 2.5ug gro lcs	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSW	Batch ID: G81766		RunNo: 81766							
Prep Date:	Analysis Date: 10/1/2021		SeqNo: 2891256		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.49	0.050	0.5000	0	98.2	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBW	Batch ID: G81766		RunNo: 81766							
Prep Date:	Analysis Date: 10/1/2021		SeqNo: 2891274		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: 4-Bromofluorobenzene	11		10.00		109	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 Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit



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: 2109H26

RcptNo: 1

Received By: Cheyenne Cason

9/30/2021 7:10:00 AM

Completed By: Sean Livingston

9/30/2021 9:03:59 AM

Reviewed By: TMC

10/1/21

Handwritten signatures and initials:
Cason
Sean Livingston
[Signature]

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 $>0^{\circ}\text{C}$ 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

(≤ 2 or >12 unless noted)

Adjusted? NO

Checked by: JN 10/1/21

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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.8	Good				
2	3.4	Good				
3	1.4	Good				

Chain-of-Custody Record

Client:	Animas Environmental Services
Turn-Around Time:	<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush
Project Name:	BMG Hwy 537 2009 Release
Project #:	
Mailing Address:	PO Box 8
	Farmington, NM 87499-0008
Phone #:	505-564-2281
Email or Fax#:	aledgerwood@animasenvironmental.com
QA/QC Package:	<input type="checkbox"/> Level 4 (Full Validation)
X Standard	<input type="checkbox"/> Other
Accreditation:	<input type="checkbox"/> NELAP <input type="checkbox"/> Other
<input type="checkbox"/> EDD (Type)	

Released to Imaging: 8/4/2023 3:45:42 PM


**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Project Manager:		Angela Ledgerwood Elizabeth McNally		Sampler:		CLJJO		On Ice:		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		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)	
Sample Temperature:		Sample, Sex, Bench		Container Type and #		Preservative Type		5- 40 mL VOA 250 mL amber glass 1 L amber glass 125 mL plastic		5- HgCl2 1 - cool 1 - H2SO4 1-HNO3 filtered		21091476		X		X		X					
Date		Time		Matrix		Sample Request ID		MW-1		H2O		9-29-21 12:18											
				Trip-Blanks				240mL-VGA		2- HgCl2		-002		X		X							
				Did not receive																			
Date:		Time:		Relinquished by:		Received by:		Date		Time		Remarks: Please bill direct to Benson-Montin-Greer bmg@bmgdrilling.com											
9/29/21		1713		[Signature]		[Signature]		9/29/21		1713													
Date:		Time:		Relinquished by:		Received by:		Date		Time		Call with any questions. 2.8-0=2.8 3.4-0=3.4 1.4-0=1.4											
9/29/21		1820		[Signature]		Cmc Carter		9/30/21		0710													

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

December 28, 2021

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

RE: BMG Hwy 537 2009 Release

OrderNo.: 2112A03

Dear Angela Ledgerwood:

Hall Environmental Analysis Laboratory received 2 sample(s) on 12/15/2021 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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2112A03

Date Reported: 12/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: MW-1

Project: BMG Hwy 537 2009 Release

Collection Date: 12/14/2021 12:16:00 PM

Lab ID: 2112A03-001

Matrix: AQUEOUS

Received Date: 12/15/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Benzene	54	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
Toluene	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
Ethylbenzene	2.2	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
Methyl tert-butyl ether (MTBE)	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
1,2,4-Trimethylbenzene	4.6	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
1,3,5-Trimethylbenzene	2.9	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
1,2-Dichloroethane (EDC)	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
Naphthalene	ND	4.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
1-Methylnaphthalene	ND	8.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
2-Methylnaphthalene	ND	8.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
Acetone	ND	20		µg/L	2	12/18/2021 3:16:00 PM	R84647
Bromobenzene	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
Bromodichloromethane	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
Bromoform	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
Bromomethane	ND	6.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
2-Butanone	ND	20		µg/L	2	12/18/2021 3:16:00 PM	R84647
Carbon disulfide	ND	20		µg/L	2	12/18/2021 3:16:00 PM	R84647
Carbon Tetrachloride	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
Chlorobenzene	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
Chloroethane	ND	4.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
Chloroform	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
Chloromethane	ND	6.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
2-Chlorotoluene	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
4-Chlorotoluene	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
cis-1,2-DCE	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
cis-1,3-Dichloropropene	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
1,2-Dibromo-3-chloropropane	ND	4.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
Dibromochloromethane	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
Dibromomethane	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
1,2-Dichlorobenzene	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
1,3-Dichlorobenzene	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
1,4-Dichlorobenzene	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
Dichlorodifluoromethane	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
1,1-Dichloroethane	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
1,1-Dichloroethene	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
1,2-Dichloropropane	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
1,3-Dichloropropane	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
2,2-Dichloropropane	ND	4.0		µg/L	2	12/18/2021 3:16:00 PM	R84647

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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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Analytical Report

Lab Order 2112A03

Date Reported: 12/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: MW-1

Project: BMG Hwy 537 2009 Release

Collection Date: 12/14/2021 12:16:00 PM

Lab ID: 2112A03-001

Matrix: AQUEOUS

Received Date: 12/15/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: CCM
1,1-Dichloropropene	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
Hexachlorobutadiene	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
2-Hexanone	ND	20		µg/L	2	12/18/2021 3:16:00 PM	R84647
Isopropylbenzene	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
4-Isopropyltoluene	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
4-Methyl-2-pentanone	ND	20		µg/L	2	12/18/2021 3:16:00 PM	R84647
Methylene Chloride	ND	6.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
n-Butylbenzene	ND	6.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
n-Propylbenzene	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
sec-Butylbenzene	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
Styrene	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
tert-Butylbenzene	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
1,1,2,2-Tetrachloroethane	ND	4.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
Tetrachloroethene (PCE)	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
trans-1,2-DCE	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
trans-1,3-Dichloropropene	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
1,2,3-Trichlorobenzene	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
1,2,4-Trichlorobenzene	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
1,1,1-Trichloroethane	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
1,1,2-Trichloroethane	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
Trichloroethene (TCE)	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
Trichlorofluoromethane	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
1,2,3-Trichloropropane	ND	4.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
Vinyl chloride	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
Xylenes, Total	10	3.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
Surr: 1,2-Dichloroethane-d4	99.7	70-130		%Rec	2	12/18/2021 3:16:00 PM	R84647
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	2	12/18/2021 3:16:00 PM	R84647
Surr: Dibromofluoromethane	102	70-130		%Rec	2	12/18/2021 3:16:00 PM	R84647
Surr: Toluene-d8	97.0	70-130		%Rec	2	12/18/2021 3:16:00 PM	R84647

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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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Analytical Report

Lab Order 2112A03

Date Reported: 12/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Trip Blank

Project: BMG Hwy 537 2009 Release

Collection Date:

Lab ID: 2112A03-002

Matrix: TRIP BLANK

Received Date: 12/15/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Benzene	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
Toluene	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
Ethylbenzene	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
Naphthalene	ND	2.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
1-Methylnaphthalene	ND	4.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
2-Methylnaphthalene	ND	4.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
Acetone	ND	10		µg/L	1	12/18/2021 4:26:00 PM	R84647
Bromobenzene	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
Bromodichloromethane	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
Bromoform	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
Bromomethane	ND	3.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
2-Butanone	ND	10		µg/L	1	12/18/2021 4:26:00 PM	R84647
Carbon disulfide	ND	10		µg/L	1	12/18/2021 4:26:00 PM	R84647
Carbon Tetrachloride	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
Chlorobenzene	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
Chloroethane	ND	2.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
Chloroform	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
Chloromethane	ND	3.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
2-Chlorotoluene	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
4-Chlorotoluene	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
cis-1,2-DCE	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
Dibromochloromethane	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
Dibromomethane	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
1,1-Dichloroethane	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
1,1-Dichloroethene	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
1,2-Dichloropropane	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
1,3-Dichloropropane	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
2,2-Dichloropropane	ND	2.0		µg/L	1	12/18/2021 4:26:00 PM	R84647

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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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Analytical Report

Lab Order 2112A03

Date Reported: 12/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Trip Blank

Project: BMG Hwy 537 2009 Release

Collection Date:

Lab ID: 2112A03-002

Matrix: TRIP BLANK

Received Date: 12/15/2021 8:00:00 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	12/18/2021 4:26:00 PM	R84647
Hexachlorobutadiene	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
2-Hexanone	ND	10		µg/L	1	12/18/2021 4:26:00 PM	R84647
Isopropylbenzene	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
4-Isopropyltoluene	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
4-Methyl-2-pentanone	ND	10		µg/L	1	12/18/2021 4:26:00 PM	R84647
Methylene Chloride	ND	3.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
n-Butylbenzene	ND	3.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
n-Propylbenzene	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
sec-Butylbenzene	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
Styrene	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
tert-Butylbenzene	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
trans-1,2-DCE	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
Trichlorofluoromethane	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
Vinyl chloride	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
Xylenes, Total	ND	1.5		µg/L	1	12/18/2021 4:26:00 PM	R84647
Surr: 1,2-Dichloroethane-d4	99.9	70-130		%Rec	1	12/18/2021 4:26:00 PM	R84647
Surr: 4-Bromofluorobenzene	98.2	70-130		%Rec	1	12/18/2021 4:26:00 PM	R84647
Surr: Dibromofluoromethane	102	70-130		%Rec	1	12/18/2021 4:26:00 PM	R84647
Surr: Toluene-d8	96.1	70-130		%Rec	1	12/18/2021 4:26:00 PM	R84647

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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2112A03

28-Dec-21

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: R84647			RunNo: 84647						
Prep Date:	Analysis Date: 12/18/2021			SeqNo: 2975820		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	105	70	130			
Toluene	20	1.0	20.00	0	99.3	70	130			
Chlorobenzene	20	1.0	20.00	0	99.8	70	130			
1,1-Dichloroethene	19	1.0	20.00	0	97.0	70	130			
Trichloroethene (TCE)	21	1.0	20.00	0	103	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	10		10.00		103	70	130			
Surr: Toluene-d8	9.6		10.00		96.1	70	130			

Sample ID: mb	SampType: MBLK			TestCode: EPA Method 8260B: VOLATILES						
Client ID: PBW	Batch ID: R84647			RunNo: 84647						
Prep Date:	Analysis Date: 12/18/2021			SeqNo: 2975821		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 Quantitative Limit
S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2112A03

28-Dec-21

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: R84647	RunNo: 84647								
Prep Date:	Analysis Date: 12/18/2021	SeqNo: 2975821	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 Quantitative Limit
S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2112A03

28-Dec-21

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: R84647	RunNo: 84647								
Prep Date:	Analysis Date: 12/18/2021	SeqNo: 2975821		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	9.7		10.00		97.4	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	10		10.00		104	70	130			
Surr: Toluene-d8	9.6		10.00		96.3	70	130			

Sample ID: 2112A03-001ams	SampType: MS	TestCode: EPA Method 8260B: VOLATILES								
Client ID: MW-1	Batch ID: R84647	RunNo: 84647								
Prep Date:	Analysis Date: 12/18/2021	SeqNo: 2975862		Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	86	2.0	40.00	54.23	79.7	70	130			
Toluene	41	2.0	40.00	0.6400	101	70	130			
Chlorobenzene	41	2.0	40.00	0	103	70	130			
1,1-Dichloroethene	38	2.0	40.00	0	95.5	70	130			
Trichloroethene (TCE)	41	2.0	40.00	0	103	70	130			
Surr: 1,2-Dichloroethane-d4	20		20.00		98.2	70	130			
Surr: 4-Bromofluorobenzene	20		20.00		100	70	130			
Surr: Dibromofluoromethane	20		20.00		100	70	130			
Surr: Toluene-d8	19		20.00		96.0	70	130			

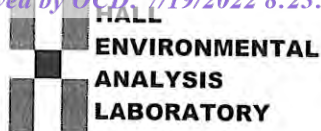
Sample ID: 2112A03-001amsd	SampType: MSD	TestCode: EPA Method 8260B: VOLATILES								
Client ID: MW-1	Batch ID: R84647	RunNo: 84647								
Prep Date:	Analysis Date: 12/18/2021	SeqNo: 2975863		Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	83	2.0	40.00	54.23	73.1	70	130	3.11	20	
Toluene	40	2.0	40.00	0.6400	98.6	70	130	1.84	20	
Chlorobenzene	40	2.0	40.00	0	101	70	130	1.79	20	
1,1-Dichloroethene	38	2.0	40.00	0	93.9	70	130	1.65	20	
Trichloroethene (TCE)	40	2.0	40.00	0	99.0	70	130	3.69	20	
Surr: 1,2-Dichloroethane-d4	20		20.00		98.6	70	130	0	0	
Surr: 4-Bromofluorobenzene	20		20.00		101	70	130	0	0	
Surr: Dibromofluoromethane	20		20.00		101	70	130	0	0	
Surr: Toluene-d8	20		20.00		98.1	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 Quantitative Limit
S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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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: 2112A03

RcptNo: 1

Received By: Isaiah Ortiz

12/15/2021 8:00:00 AM

Completed By: Cheyenne Cason

12/15/2021 4:35:08 PM

Reviewed By: KPG 12/16/21

IOX

Chad

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 $>0^{\circ}\text{C}$ 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: JN 12/16/21

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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.5	Good	Yes			
2	0.6	Good	Yes			

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Analysis Request

Client: Animas Environmental Services		X Standard <input type="checkbox"/> Rush		Project Name: BMG Hwy 537 2009 Release		Project #:		Project Manager: Angela Ledgerwood Elizabeth McNally		Full List VOCs (8260)		TPH - GRO/DRO/MRO (8015)		Phenols (SW-846-9067)		Dissolved Mn (200.7/6010)		Air Bubbles (Y or N)	
Mailing Address: PO Box 8		Project Name: BMG Hwy 537 2009 Release		Project #:		Project Manager: Angela Ledgerwood Elizabeth McNally		Sampler: CL/JJO		Full List VOCs (8260)		TPH - GRO/DRO/MRO (8015)		Phenols (SW-846-9067)		Dissolved Mn (200.7/6010)		Air Bubbles (Y or N)	
Phone #: 505-564-2281		Project Name: BMG Hwy 537 2009 Release		Project #:		Project Manager: Angela Ledgerwood Elizabeth McNally		On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Full List VOCs (8260)		TPH - GRO/DRO/MRO (8015)		Phenols (SW-846-9067)		Dissolved Mn (200.7/6010)		Air Bubbles (Y or N)	
Email or Fax#: aledgerwood@animasenvironmental.com		Project Name: BMG Hwy 537 2009 Release		Project #:		Project Manager: Angela Ledgerwood Elizabeth McNally		Sample Temperature: 2.6 - 0.1 K/F / 2.5 - 0.6 C		Full List VOCs (8260)		TPH - GRO/DRO/MRO (8015)		Phenols (SW-846-9067)		Dissolved Mn (200.7/6010)		Air Bubbles (Y or N)	
QA/QC Package: X Standard <input type="checkbox"/> Level 4 (Full Validation)		Project Name: BMG Hwy 537 2009 Release		Project #:		Project Manager: Angela Ledgerwood Elizabeth McNally		Container Type and #		Full List VOCs (8260)		TPH - GRO/DRO/MRO (8015)		Phenols (SW-846-9067)		Dissolved Mn (200.7/6010)		Air Bubbles (Y or N)	
Accreditation: <input type="checkbox"/> NELAP <input type="checkbox"/> Other		Project Name: BMG Hwy 537 2009 Release		Project #:		Project Manager: Angela Ledgerwood Elizabeth McNally		Preservative Type		Full List VOCs (8260)		TPH - GRO/DRO/MRO (8015)		Phenols (SW-846-9067)		Dissolved Mn (200.7/6010)		Air Bubbles (Y or N)	
Date		Time		Matrix		Sample Request ID		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)	
12/14/21		12:16		H ₂ O		MW-1		5 - 40 mL VOA 250 mL amber glass 1 L amber glass 125 mL plastic		X									
								5 - HgCl ₂ 1 - cool 1 - H ₂ SO ₄ 1 - HNO ₃ filtered											
								2 - 40mL VOA		X									
Date:		Time:		Relinquished by:		Sample Request ID		Received by:		Date		Time		Remarks: Please bill direct to Benson-Montin-Greer bmg@bmgdrilling.com		Call with any questions.			
12/14/21		1632		Sandra Ogborn				M. W. W. W.		12/14/21		1632							
Date:		Time:		Relinquished by:		Sample Request ID		Received by:		Date		Time							
12/14/21		1811		Sandra Wack				I. O. W. W.		12/15/21		0800							

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 126633

CONDITIONS

Operator: BENSON-MONTIN-GREER DRILLING CORP 4900 College Blvd. Farmington, NM 87402	OGRID:
	2096
	Action Number: 126633
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Review of Q1 through Q4 Annual 2021 Progress Report: Content Satisfactory 1. Continue to sample MW-1 for Volatiles Quarterly, Phenols (SW-846 9067) and dissolved manganese (EPA Method 200.7) 2. Gauge all wells for depth to groundwater and water quality parameters on an annual basis. 3. Replace absorbent sock as needed. 4 Submit the next Annual Report for all quarters on or before April 1, 2024.	8/4/2023