



February 29, 2024

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

REVIEWED

By Mike Buchanan at 4:33 pm, Apr 24, 2024

**Re: Q1 through Q4 2023 Progress Report
Benson-Montin-Greer
Highway 537 Llaves Pipeline 2008 Release
Rio Arriba County, New Mexico
AP-136 (Formerly 3RP-447)
Incident #NRMD0929936774**

Dear Mr. Velez:

On behalf of Benson-Montin-Greer Drilling Corporation Services, LLC (AES) has prepared this 2023 Progress Report which details Q1 through Q4 gauging and sampling activities at the BMG Llaves Pipeline 2008 Release location. Site activities were conducted in accordance with a Stage 1 and 2 Abatement Plan dated June 6, 2019, and Plan approval from the New Mexico Oil Conservation Division (NMOCD) is currently pending.

Review of the Q1 through Q4 2023 Progress Report for Highway 537 Llaves Pipeline 2008 Release: Content Satisfactory
1. Proceed to professionally survey the TOC for the MPE wells and MW-9R for accurate site description and data collection
2. Remove NAPL from MPE-4 as planned
3. Install and change absorbent socks as planned for MPE wells
4. Continue with scheduled sampling and gauging as BMG has planned and please notify OCD four (4) business days in advance before sampling commences.
5. Send the 2024 Progress Report by April 1, 2025.

Site Information

1.1 Site Location

The 2008 release originated on the Schmitz Ranch, on the south side of Highway 537 and flowed south and southwest through a small unnamed arroyo for approximately 920 linear feet (ft). This arroyo eventually drains to the Los Ojitos Arroyo, which ultimately drains to Largo Canyon. The release location is legally described as being located within the NW¼ NE¼ Section 18, Township 25N, Range 3W in Rio Arriba County, New Mexico. Latitude and longitude were recorded as being N36.40357 and W107.18422, 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.

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1.2 Release History

December 31, 2007 - A Western Refining truck driver discovered the Llaves pipeline leak and immediately contacted BMG. BMG personnel confirmed the release and shut down the Llaves pipeline pumps and block valve located about one mile upstream. BMG contracted with TNT Excavating to remove the oil that had pooled along the surface of the small arroyo. Approximately 40 barrels (bbls) of oil were recovered and placed in storage tanks at the BMG Hwy 537 Transfer Station. A total of 3,932 cubic yards of contaminated soils were excavated and transported to the TNT Landfarm facility for disposal.

January 9, 2008 – The Llaves pipeline was repaired. BMG notified the National Response Center on January 23, 2008, and the release was given identification number 860429.

1.3 Abatement Plan 2019

In accordance with New Mexico Administrative Code (NMAC) 19.15.30.11, a Stage 1 and 2 Abatement Plan was requested by the NMOCD in correspondence dated March 18, 2019, and subsequently submitted in June 2019.

The purpose of a Stage 1 Abatement Plan is to design and conduct a site investigation that adequately defines site conditions, and to provide the data necessary to select and design an effective abatement option. The plan proposed that previous site data and associated reports adequately defined site conditions, thereby meeting the requirements of a Stage 1 Abatement Plan.

The proposed activities of the Stage 2 Abatement Plan included replacement monitor well MW-9R installation and sampling (completed September 2019), installation of a solar-powered low vacuum non-aqueous phase liquid (NAPL) recovery system (completed October 2019), ongoing groundwater monitoring and sampling, and compliance soil sampling.

2.0 Quarterly Progress Summaries, Q1 through Q4 2023

2.1 Q1 - March 2023 Groundwater Gauging

Groundwater gauging of site wells, replacement of absorbent socks, and hand bailing of NAPL was conducted by AES on March 15, 2023. Oleophilic/hydrophobic absorbent socks were replaced in MPE-1, MPE-3, MPE-5, and MPE-6. Water quality readings and samples were not collected. All field measurements were recorded on a NAPL Recovery Form, which is included in Appendix A.

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Groundwater and NAPL Measurements

Depth to groundwater at the site ranged from 35.29 ft below ground surface (bgs) at MPE-2 to 39.27 ft bgs at MPE-5. NAPL was observed in four wells: MPE-1 (sheen), MPE-3 (0.03 ft), MPE-5 (1.75 ft), and MPE-6 (in sock only). Residual NAPL was not observed in wells MW-9R and MPE-2.

A groundwater direction and gradient was not calculated for this sampling event, as none of the wells gauged for this event have a surveyed top of casing elevation. Groundwater flow direction historically has been to the southwest. Fluid depth measurements are presented in Table 1, and fluid depth measurements, historical groundwater contours, and residual NAPL contours are presented on Figure 3.

2.2 Q2 - June 2023 Groundwater Gauging

Groundwater gauging of site wells, replacement of absorbent socks, and hand bailing of NAPL was conducted on June 21, 2023. Absorbent socks were replaced in MPE-1, MPE-3, MPE-5, and MPE-6. Water quality readings and samples were not collected. All field measurements were recorded on a Depth to Groundwater Measurement Form or a NAPL Recovery Form, which are included in Appendix A.

Groundwater and NAPL Measurements

Depth to groundwater at the site ranged from 33.22 ft bgs at MPE-7 to 41.09 ft bgs at MW-7. NAPL was observed in four wells: MPE-1 (0.34 ft), MPE-3 (0.16 ft), MPE-5 (1.77 ft), and MPE-6 (sheen). NAPL was not observed in wells MW-2, MW-7, and MPE-7. Fluid depth measurements are presented in Table 1, and fluid depth measurements, historical groundwater contours, and residual NAPL contours are presented on Figure 3.

2.3 Q3 – September 2023 Groundwater Gauging and Well Maintenance

Groundwater gauging of site wells, replacement of absorbent socks, and hand bailing of NAPL was conducted on September 13, 2023. Absorbent socks were replaced in MPE-1, MPE-2, MPE-3, MPE-5, MPE-6, and MW-9R. Additionally, a dilute solution of Simple Green detergent, which acts as a surfactant, and hot water was injected into and then bailed out of MPE-1, MPE-3, and MPE-5 to improve transmissivity of NAPL from the formation and sand pack into the wells. All field measurements were recorded on a Depth to Groundwater Measurement Form or Well Monitoring and Maintenance Forms, which are included in Appendix A.

Groundwater and NAPL Measurements

Depth to groundwater at the site ranged from 33.91 ft bgs at MPE-7 to 39.04 ft bgs at MPE-1. As reported in previous sampling events, MPE-4 is obstructed at 35.51 ft bgs by a misalignment in the PVC casing. Residual NAPL was observed in seven wells: MW-9R (sheen), MPE-1 (sheen), MPE-2 (0.01 ft), MPE-3 (0.03 ft), MPE-4 (at least 2.19 ft), MPE-5 (2.55 ft), and MPE-6 (sheen). MW-2 and MW-7 were found to be dry, and an obstruction

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was noted within MPE-4 at 35.51 ft bgs. NAPL was not observed in MPE-7. Fluid depth measurements are presented in Table 1, and fluid depth measurements, historical groundwater contours, and residual NAPL contours are presented on Figure 3.

2.4 Q4 – December 2023 Groundwater Gauging and Sampling

Groundwater gauging of site wells, replacement of absorbent socks, hand bailing of NAPL, and sampling of monitor well MW-9R was conducted on December 13, 2023. Absorbent socks were replaced in MPE-1, MPE-2, MPE-3, MPE-5, and MPE-6. Water quality readings and samples were not collected. All field measurements were recorded on a Depth to Groundwater Measurement Form or Well Monitoring and Maintenance Forms, which are included in Appendix A.

Groundwater and NAPL Measurements

Depth to groundwater at the site ranged from 33.64 ft bgs at MPE-7 to 41.43 ft bgs at MW-7. NAPL was observed in four wells: MW-9R (sheen), MPE-1 (0.01 ft), MPE-5 (2.22 ft), and MPE-6 (sheen). MW-2 was found to be dry, and an obstruction remains within MPE-4. Residual NAPL was not observed in wells MW-7, MPE-2, MPE-3, and MPE-7. Fluid depth measurements are presented in Table 1, and fluid depth measurements, historical groundwater contours, and residual NAPL contours are presented on Figure 3.

Groundwater Laboratory Analyses

After bailing NAPL to a sheen, groundwater samples were collected from MW-7, MPE-5, and MW-9R and submitted to Eurofins Environment Testing South Central, LLC, (Eurofins Albuquerque, formerly Hall Environmental Analysis Laboratory) in Albuquerque, New Mexico, for analysis of the following parameters:

- Total dissolved solids (TDS) per SM2540C Mod (MPE-5, MW-7, and MW-9R);
- VOCs per U.S. Environmental Protection Agency (USEPA) Method 8260 (MW-9R);
- Total petroleum hydrocarbons (TPH) gasoline range organics (GRO), diesel range organics (DRO), and motor oil range organics (MRO) per USEPA Method 8015 (MW-9R);
- Dissolved iron and manganese per USEPA Method 6010B (MW-9R); and
- Total Phenolics per SW-846 9067 (MW-9R).

All samples were preserved in laboratory-supplied containers and stored in an insulated cooler containing ice. Samples were shipped by Eurofins Albuquerque courier in chilled and insulated coolers at less than 6°C to the analytical laboratory.

Groundwater Laboratory Analytical Results

No VOCs, including benzene, toluene, ethylbenzene, and total xylenes, were detected in the sample collected at MW-9R. TPH-GRO was detected at a concentration of 0.34 milligrams per liter (mg/L), DRO at 31 mg/L, and MRO at 13 mg/L.

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MW-9R and MPE-5 exceeded the WQCC standard of 1,000 mg/L for TDS with 1,100 mg/L and 2,910 mg/L, respectively, while MW-7 had a TDS concentration of 980 mg/L. MW-9R also exceeded the WQCC standard of 1.0 mg/L for dissolved iron (1.1 mg/L) and 0.2 mg/L for dissolved manganese (3.9 mg/L). Total phenolics were not detected in the sample from MW-9R above the reporting limit of 0.003 mg/L, which is lower than the WQCC standard for phenol (0.005 mg/L). Groundwater analytical results are summarized in Tables 2 and 3 and are also presented on Figure 3. The laboratory analytical report is included in Appendix B.

2.5 NAPL Recovery

On March 15, June 21, September 13, and December 13, 2023, AES hand bailed NAPL from any wells that were found to contain recoverable quantities of product. Hand bailing was performed by lowering a bailer into each well and retrieving it via a length of string. Bailed NAPL was decanted into the onsite storage barrel. NAPL volumes were approximated and recorded on the attached Depth to Groundwater Measurement forms.

NAPL Recovery Data - March 15, 2023

| Well ID | Initial Depth to NAPL (ft) | Initial Depth to Water (ft) | Initial NAPL thickness (ft) | Final Depth to NAPL (ft) | Final Depth to Water (ft) | Final NAPL Thickness (ft) | Volume of NAPL Removed (gallon) |
|---------|----------------------------|-----------------------------|-----------------------------|--------------------------|---------------------------|---------------------------|---------------------------------|
| MPE-1 | 38.42 | 38.42 | Sheen | -- | 38.42 | -- | 0.50 |
| MPE-3 | 36.00 | 36.03 | 0.03 | 36.03 | 36.00 | 0.03 | 0.50 |
| MPE-5 | 37.52 | 39.27 | 1.75 | 38.67 | 38.69 | 0.02 | 0.50 |

NAPL Recovery Data - June 21, 2023

| Well ID | Initial Depth to NAPL (ft) | Initial Depth to Water (ft) | Initial NAPL thickness (ft) | Final Depth to NAPL (ft) | Final Depth to Water (ft) | Final NAPL Thickness (ft) | Volume of NAPL Removed (gallon) |
|---------|----------------------------|-----------------------------|-----------------------------|--------------------------|---------------------------|---------------------------|---------------------------------|
| MPE-1 | 38.09 | 38.43 | 0.34 | 42.72 | 42.72 | 0.01 | 0.75 |
| MPE-3 | 35.16 | 35.32 | 0.16 | 35.04 | 35.09 | 0.05 | 2.5 |
| MPE-5 | 37.52 | 39.29 | 1.77 | 37.75 | 37.72 | 0.03 | 5.0 |
| MPE-6 | 35.39 | 35.39 | 0.01 | 35.38 | 35.38 | 0.01 | 0.25 |

NAPL Recovery Data – September 13, 2023

| Well ID | Initial Depth to NAPL (ft) | Initial Depth to Water (ft) | Initial NAPL thickness (ft) | Final Depth to NAPL (ft) | Final Depth to Water (ft) | Final NAPL Thickness (ft) | Volume of NAPL Removed (gallon) |
|---------|----------------------------|-----------------------------|-----------------------------|--------------------------|---------------------------|---------------------------|---------------------------------|
| MPE-1 | 39.04 | 39.04 | Sheen | 37.56 | 37.56 | Sheen | 1.0 |
| MPE-2 | 35.97 | 35.98 | 0.01 | 32.79 | 32.79 | Sheen | 0.25 |
| MPE-3 | 34.78 | 34.81 | 0.03 | 34.81 | 34.81 | Sheen | 1.0 |
| MPE-5 | 36.32 | 38.87 | 2.55 | 36.91 | 36.98 | 0.07 | 3.5 |

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NAPL Recovery Data – December 13, 2023

| Well ID | Initial Depth to NAPL (ft) | Initial Depth to Water (ft) | Initial NAPL thickness (ft) | Final Depth to NAPL (ft) | Final Depth to Water (ft) | Final NAPL Thickness (ft) | Volume of NAPL Removed (gallon) |
|---------|----------------------------|-----------------------------|-----------------------------|--------------------------|---------------------------|---------------------------|---------------------------------|
| MPE-5 | 37.76 | 39.98 | 2.22 | 38.15 | 38.25 | 0.10 | 0.34 |

Petroleum Hydrocarbon Mass Removal through Q4 2023

| Time Period | Mass Petroleum Hydrocarbons Removed (lbs) |
|--------------------------------------|---|
| Through 2022 | 41,618 |
| Q1 2023 | 9.4 |
| Q2 2023 | 54 |
| Q3 2023 | 36 |
| Q4 2023 | 2.2 |
| Cumulative Mass Removal (lbs) | 41,720 |

Cumulative depth to groundwater and NAPL measurements are presented in Table 1 and in NAPL recovery forms, which are included as Appendix A.

3.0 Conclusions, Recommendations, and Scheduled Activities

3.1 Conclusions

In March, June, September, and December 2023, AES conducted well gauging, hand bailing of NAPL, and groundwater sampling of MPE-5, MW-7, and MW-9R (December 2023). Additionally, hydrophobic socks were changed out within select site wells, and well cleaning treatments were performed in September 2023. Groundwater elevations in the site monitor wells generally increased slightly year over year, except for in June 2023. Well MW-2 (the downgradient well) remained dry for all of 2023.

Groundwater samples were collected from MW-7, MW-9R, and MPE-5 in December 2023. Dissolved phase concentrations for volatile organics were either below laboratory detection limits or below their respective WQCC standards in MW-9R. TPH-GRO had a reported concentration of 0.34 mg/L, DRO was 31 mg/L, and MRO was 13 mg/L in MW-9R; however, there are no WQCC standards for TPH in groundwater. Total phenolics were not detected in the sample from MW-9R. Dissolved iron and manganese exceeded their respective WQCC standards with 1.1 mg/L and 3.9 mg/L, respectively. TDS exceeded the WQCC standard of 1,000 mg/L in wells MW-9R (1,100 mg/L) and MPE-5 (2,910 mg/L), but not in MW-7 (980 mg/L).

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NAPL recovery efforts included hand-bailing and installation of hydrophobic socks, as well as well cleaning treatments in September 2023.

3.2 Recommendations

Based on site conditions, AES recommends continuing with the scheduled gauging, sampling, and recovery of residual NAPL. AES also recommends the following:

1. Professionally survey top of casing elevations for the MPE wells and MW-9R so that accurate groundwater direction and gradient calculations can be performed.
2. Use a bladder pump and dedicated tubing (flexible) to remove NAPL from well MPE-4, which cannot be bailed due to an obstruction at approximately 35.5 ft bgs.
3. Install and change oil absorbent socks within MPE wells to mitigate removal of residual NAPL. Note that the limited water columns in the MPE wells preclude installation and utilization of skimmers or stingers.

AES is also investigating other methods for capturing of residual NAPL to improve collection.

3.3 Scheduled Site Activities

The following site activities are currently scheduled for the remainder of 2024:

- Continue recovery of residual NAPL via oleophilic/hydrophobic socks where NAPL thickness is sufficient for removal, with quarterly hand-bailing and sock replacements as necessary;
- Semi-annual gauging events of the remaining monitor wells MW-2, MW-7, and MW-9R; and,
- In December 2024, conduct sampling of MW-9R for VOCs per USEPA 8260, TPH (GRO, DRO, MRO) per USEPA 8015, dissolved iron and manganese per USEPA 200.8/6010, TDS per SM2540C, and phenols per SW-846 9067.

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

Respectfully Submitted,



Lany Cupps
Environmental Coordinator

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Angela Todd, CHMM, PMP
Senior Project Manager



Elizabeth McNally, P.E.
Principal

Tables

1. Summary of Groundwater Measurement and Water Quality Data
2. Summary of Groundwater Analytical Results – VOCs and TPH
3. WQCC – Dissolved Iron and Manganese, and Phenols

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2. General Site Plan
3. 2023 Groundwater Elevation Contours, Residual NAPL Contours, and Groundwater Contaminant Concentrations

Appendices

- A. Depth to Groundwater Measurement Forms, NAPL Recovery Forms, and Well Monitoring and Maintenance Forms – March 2023, June 2023, September 2023, and December 2023
- B. Laboratory Analytical Reports (Eurofins Albuquerque No. 2312925)

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Tables

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA
BMG HWY 537 LLAVES PIPELINE 2008 OIL RELEASE
Rio Arriba County, New Mexico

| Well ID | Date Sampled | Surveyed TOC (ft) | Total Well Depth (ft) | Screen Interval | Depth to NAPL (ft) | Depth to Water (ft) | NAPL Thickness (ft) | GW Elev. (ft) | Temp. (°C) | Specific Conduct. (mS) | Dissolved Oxygen (mg/L) | pH | ORP (mV) |
|---------|--------------|-------------------|-----------------------|-----------------|-----------------------|---------------------|---------------------|---------------|----------------|------------------------|-------------------------|------|----------|
| MW-1 | 05-May-08 | 7082.57 | | | | 31.45 | | 7051.12 | 15.57 | 4.051 | 1.48 | 7.62 | 141.9 |
| MW-1 | 07-Aug-17 | 7082.57 | 38 | | Plugged and Abandoned | | | | | | | | |
| | | | | | | | | | | | | | |
| MW-2 | 05-May-08 | 7079.94 | 40 | 25-40 | | 29.01 | | 7050.93 | 16.43 | 2.276 | 2.21 | 7.59 | 90.8 |
| MW-2 | 22-Jun-23 | 7097.94 | 40 | 25-40 | -- | Dry | -- | NA | NM - WELL DRY | | | | |
| MW-2 | 13-Sep-23 | 7097.94 | 40 | 25-40 | -- | Dry | -- | NA | NM - WELL DRY | | | | |
| MW-2 | 13-Dec-23 | 7097.94 | 40 | 25-40 | -- | Dry | -- | NA | NM - WELL DRY | | | | |
| | | | | | | | | | | | | | |
| MW-3 | 05-May-08 | 7081.10 | | | | 29.49 | | 7051.61 | 15.91 | 4.083 | 2.42 | 7.79 | 75.7 |
| MW-3 | 07-Aug-17 | 7081.10 | 36 | | Plugged and Abandoned | | | | | | | | |
| | | | | | | | | | | | | | |
| MW-4 | 05-May-08 | 7084.79 | | | | 32.74 | | 7052.05 | 14.62 | 2.699 | 2.36 | 7.70 | -37.5 |
| MW-4 | 07-Aug-17 | 7084.79 | 36 | | Plugged and Abandoned | | | | | | | | |
| | | | | | | | | | | | | | |
| MW-5 | 05-May-08 | 7087.98 | 34 | | -- | Dry | -- | NA | NM - WELL DRY | | | | |
| MW-5 | 07-Aug-17 | 7088.98 | 34 | | Plugged and Abandoned | | | | | | | | |
| | | | | | | | | | | | | | |
| MW-6 | 05-May-08 | 7088.43 | | | | 36.03 | | 7052.40 | 13.95 | 1.764 | 2.43 | 7.73 | 87.3 |
| MW-6 | 07-Aug-17 | 7088.43 | 40 | | Plugged and Abandoned | | | | | | | | |
| | | | | | | | | | | | | | |
| MW-7 | 05-May-08 | 7090.15 | 40 | 25-40 | | 37.71 | | 7052.44 | NM - LOW YIELD | | | | |
| MW-7 | 22-Jun-23 | 7090.15 | 40 | 25-40 | -- | 41.09 | -- | 7049.06 | NM | NM | NM | NM | NM |
| MW-7 | 13-Sep-23 | 7090.15 | 40 | 25-40 | -- | Dry | -- | NA | NM - WELL DRY | | | | |
| MW-7 | 13-Dec-23 | 7090.15 | 40 | 25-40 | -- | 41.43 | -- | 7048.72 | NM | NM | NM | NM | NM |
| | | | | | | | | | | | | | |
| MW-8 | 05-May-08 | 7085.20 | | | | 33.71 | | 7051.49 | NM - LOW YIELD | | | | |
| MW-8 | 07-Aug-17 | 7085.20 | 36 | | Plugged and Abandoned | | | | | | | | |
| | | | | | | | | | | | | | |
| MW-9 | 05-May-08 | 7083.64 | 36 | 21-36 | -- | 31.81 | -- | 7051.83 | 15.01 | 1.955 | 2.59 | 7.85 | -37.9 |

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA
BMG HWY 537 LLAVES PIPELINE 2008 OIL RELEASE
Rio Arriba County, New Mexico

| Well ID | Date Sampled | Surveyed TOC (ft) | Total Well Depth (ft) | Screen Interval | Depth to NAPL (ft) | Depth to Water (ft) | NAPL Thickness (ft) | GW Elev. (ft) | Temp. (°C) | Specific Conduct. (mS) | Dissolved Oxygen (mg/L) | pH | ORP (mV) |
|---------|--------------|-------------------|-----------------------|-----------------|--------------------|---------------------|---------------------|---------------|--------------------------------|------------------------|-------------------------|------|----------|
| MW-9 | 14-Dec-18 | 7083.64 | 36 | 21-36 | 34.85 | 37.00 | 2.15 | 7048.31 | NM - 2.15 feet NAPL | | | | |
| MW-9R | 25-Sep-19 | TBS | 38 | 28-38 | -- | 35.32 | -- | NA | 13.6 | 1.413 | 1.41 | 6.65 | 24.9 |
| MW-9R | 10-Mar-20 | TBS | 38 | 28-38 | -- | 35.20 | -- | NA | Not Measured | | | | |
| MW-9R | 25-Mar-20 | TBS | 38 | 28-38 | 35.07 | 35.12 | 0.05 | NA | NM - 0.05 feet NAPL | | | | |
| MW-9R | 23-Jun-20 | TBS | 38 | 28-38 | 35.30 | 35.37 | 0.07 | NA | NM - 0.07 feet NAPL | | | | |
| MW-9R | 23-Sep-20 | TBS | 38 | 28-38 | 35.57 | 35.86 | 0.29 | NA | NM - 0.29 feet NAPL | | | | |
| MW-9R | 23-Nov-20 | TBS | 38 | 28-38 | 35.55 | 35.70 | 0.15 | NA | NM - 0.15 feet NAPL | | | | |
| MW-9R | 17-Mar-21 | TBS | 38 | 28-38 | 35.66 | 35.76 | 0.10 | NA | NM - 0.10 feet NAPL | | | | |
| MW-9R | 17-Jun-21 | TBS | 38 | 28-38 | 35.77 | 35.89 | 0.12 | NA | NM - 0.12 feet NAPL | | | | |
| MW-9R | 29-Sep-21 | TBS | 38 | 28-38 | 36.01 | 36.14 | 0.13 | NA | NM - 0.13 feet NAPL | | | | |
| MW-9R | 30-Nov-21 | TBS | 38 | 28-38 | 36.05 | 36.28 | 0.23 | NA | NM - 0.23 feet NAPL | | | | |
| MW-9R | 08-Mar-22 | TBS | 38 | 28-38 | -- | -- | 0.01 | NA | NM - 0.01 feet NAPL | | | | |
| MW-9R | 09-Jun-22 | TBS | 38 | 28-38 | 36.15 | 37.14 | 0.99 | NA | NM - 0.99 feet NAPL | | | | |
| MW-9R | 28-Sep-22 | TBS | 38 | 28-38 | 36.11 | 36.15 | 0.04 | NA | NM - 0.04 feet NAPL | | | | |
| MW-9R | 21-Dec-22 | TBS | 38 | 28-38 | 35.88 | 35.89 | 0.01 | NA | NM - 0.01 feet NAPL | | | | |
| MW-9R | 15-Mar-23 | TBS | 38 | 28-38 | -- | 37.52 | -- | NA | NM | NM | NM | NM | NM |
| MW-9R | 22-Jun-23 | TBS | 38 | 28-38 | -- | -- | -- | NA | Did not gauge | | | | |
| MW-9R | 13-Sep-23 | TBS | 38 | 28-38 | 35.49 | 35.49 | sheen | NA | NM | NM | NM | NM | NM |
| MW-9R | 13-Dec-23 | TBS | 38 | 28-38 | -- | 35.86 | -- | NA | NM - Sheen noted while bailing | | | | |
| MPE-1 | 09-May-11 | TBS | 40 | 30-40 | 33.87 | 36.87 | 3.00 | NA | NM - 3.00 feet NAPL | | | | |
| MPE-1 | 15-Aug-11 | TBS | 40 | 30-40 | 34.68 | 36.47 | 1.79 | NA | NM - 1.79 feet NAPL | | | | |
| MPE-1 | 07-Oct-11 | TBS | 40 | 30-40 | 34.87 | 35.81 | 0.94 | NA | NM - 0.94 feet NAPL | | | | |
| MPE-1 | 21-Nov-11 | TBS | 40 | 30-40 | 34.60 | 36.85 | 2.25 | NA | NM - 2.25 feet NAPL | | | | |
| MPE-1 | 21-Feb-12 | TBS | 40 | 30-40 | 34.57 | 37.03 | 2.46 | NA | NM - 2.46 feet NAPL | | | | |
| MPE-1 | 24-May-12 | TBS | 40 | 30-40 | 34.56 | 37.13 | 2.57 | NA | NM - 2.57 feet NAPL | | | | |
| MPE-1 | 18-Sep-12 | TBS | 40 | 30-40 | 34.91 | 37.42 | 2.51 | NA | NM - 2.51 feet NAPL | | | | |
| MPE-1 | 04-Dec-12 | TBS | 40 | 30-40 | 35.06 | 37.54 | 2.48 | NA | NM - 2.48 feet NAPL | | | | |

TABLE 1
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Rio Arriba County, New Mexico

| Well ID | Date Sampled | Surveyed TOC (ft) | Total Well Depth (ft) | Screen Interval | Depth to NAPL (ft) | Depth to Water (ft) | NAPL Thickness (ft) | GW Elev. (ft) | Temp. (°C) | Specific Conduct. (mS) | Dissolved Oxygen (mg/L) | pH | ORP (mV) |
|---------|--------------|-------------------|-----------------------|-----------------|--------------------|---------------------|---------------------|---------------|---------------------|------------------------|-------------------------|----|----------|
| MPE-1 | 26-Mar-13 | TBS | 40 | 30-40 | 34.91 | 37.33 | 2.42 | NA | NM - 2.42 feet NAPL | | | | |
| MPE-1 | 26-Jun-13 | TBS | 40 | 30-40 | 35.09 | 37.57 | 2.48 | NA | NM - 2.48 feet NAPL | | | | |
| MPE-1 | 25-Sep-13 | TBS | 40 | 30-40 | 35.07 | 38.13 | 3.06 | NA | NM - 3.06 feet NAPL | | | | |
| MPE-1 | 14-Jan-14 | TBS | 40 | 30-40 | 35.12 | 37.44 | 2.32 | NA | NM | NM | NM | NM | NM |
| MPE-1 | 04-Apr-14 | TBS | 40 | 30-40 | 35.10 | 37.40 | 2.30 | NA | NM | NM | NM | NM | NM |
| MPE-1 | 10-Sep-14 | TBS | 40 | 30-40 | 35.36 | 37.70 | 2.34 | NA | NM | NM | NM | NM | NM |
| MPE-1 | 03-Dec-14 | TBS | 40 | 30-40 | 35.44 | 37.77 | 2.33 | NA | NM | NM | NM | NM | NM |
| MPE-1 | 09-Oct-15 | TBS | 40 | 30-40 | 35.48 | 37.37 | 1.89 | NA | NM | NM | NM | NM | NM |
| MPE-1 | 27-Mar-15 | TBS | 40 | 30-40 | 35.22 | 37.29 | 2.07 | NA | NM | NM | NM | NM | NM |
| MPE-1 | 09-Oct-15 | TBS | 40 | 30-40 | 35.48 | 37.37 | 1.89 | NA | NM | NM | NM | NM | NM |
| MPE-1 | 08-Dec-15 | TBS | 40 | 30-40 | 35.58 | 37.60 | 2.02 | NA | NM | NM | NM | NM | NM |
| MPE-1 | 17-Jun-16 | TBS | 40 | 30-40 | 35.62 | 37.72 | 2.10 | NA | NM | NM | NM | NM | NM |
| MPE-1 | 20-Oct-16 | TBS | 40 | 30-40 | 35.84 | 38.05 | 2.21 | NA | NM | NM | NM | NM | NM |
| MPE-1 | 27-Jan-17 | TBS | 40 | 30-40 | 35.80 | 37.88 | 2.08 | NA | NM | NM | NM | NM | NM |
| MPE-1 | 14-Apr-17 | TBS | 40 | 30-40 | 35.58 | 37.37 | 1.79 | NA | NM | NM | NM | NM | NM |
| MPE-1 | 21-Jun-17 | TBS | 40 | 30-40 | 35.74 | 37.65 | 1.91 | NA | NM | NM | NM | NM | NM |
| MPE-1 | 09-Aug-17 | TBS | 40 | 30-40 | 35.96 | 37.50 | 1.54 | NA | NM | NM | NM | NM | NM |
| MPE-1 | 07-Dec-17 | TBS | 40 | 30-40 | 35.83 | 37.69 | 1.86 | NA | NM | NM | NM | NM | NM |
| MPE-1 | 09-Jan-18 | TBS | 40 | 30-40 | 35.79 | 37.69 | 1.90 | NA | NM | NM | NM | NM | NM |
| MPE-1 | 12-Feb-18 | TBS | 40 | 30-40 | 35.85 | 37.19 | 1.34 | NA | NM | NM | NM | NM | NM |
| MPE-1 | 05-Mar-18 | TBS | 40 | 30-40 | 35.93 | 37.06 | 1.13 | NA | NM | NM | NM | NM | NM |
| MPE-1 | 05-Apr-18 | TBS | 40 | 30-40 | 35.95 | 37.23 | 1.28 | NA | NM | NM | NM | NM | NM |
| MPE-1 | 18-May-18 | TBS | 40 | 30-40 | 35.92 | 37.40 | 1.48 | NA | NM | NM | NM | NM | NM |
| MPE-1 | 12-Jun-18 | TBS | 40 | 30-40 | 36.10 | 37.35 | 1.25 | NA | NM | NM | NM | NM | NM |
| MPE-1 | 09-Jul-18 | TBS | 40 | 30-40 | 36.23 | 37.30 | 1.07 | NA | NM | NM | NM | NM | NM |
| MPE-1 | 13-Aug-18 | TBS | 40 | 30-40 | 36.33 | 37.17 | 0.84 | NA | NM | NM | NM | NM | NM |
| MPE-1 | 24-Sep-18 | TBS | 40 | 30-40 | 36.44 | 36.98 | 0.54 | NA | NM | NM | NM | NM | NM |
| MPE-1 | 26-Oct-18 | TBS | 40 | 30-40 | 36.51 | 36.75 | 0.24 | NA | NM | NM | NM | NM | NM |
| MPE-1 | 19-Nov-18 | TBS | 40 | 30-40 | 36.54 | 36.86 | 0.32 | NA | NM | NM | NM | NM | NM |

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA
BMG HWY 537 LLAVES PIPELINE 2008 OIL RELEASE
Rio Arriba County, New Mexico

| Well ID | Date Sampled | Surveyed TOC (ft) | Total Well Depth (ft) | Screen Interval | Depth to NAPL (ft) | Depth to Water (ft) | NAPL Thickness (ft) | GW Elev. (ft) | Temp. (°C) | Specific Conduct. (mS) | Dissolved Oxygen (mg/L) | pH | ORP (mV) |
|---------|--------------|-------------------|-----------------------|-----------------|--------------------|---------------------|---------------------|---------------|---------------------|------------------------|-------------------------|----|----------|
| MPE-1 | 14-Dec-18 | TBS | 40 | 30-40 | 36.63 | 36.78 | 0.15 | NA | NM | NM | NM | NM | NM |
| MPE-1 | 25-Sep-19 | TBS | 40 | 30-40 | 36.19 | 38.11 | 1.92 | NA | NM | NM | NM | NM | NM |
| MPE-1 | 10-Mar-20 | TBS | 40 | 30-40 | 36.93 | 37.36 | 0.43 | NA | NM | NM | NM | NM | NM |
| MPE-1 | 25-Mar-20 | TBS | 40 | 30-40 | 37.08 | 37.71 | 0.63 | NA | NM | NM | NM | NM | NM |
| MPE-1 | 23-Jun-20 | TBS | 40 | 30-40 | 37.60 | 38.50 | 0.90 | NA | NM | NM | NM | NM | NM |
| MPE-1 | 23-Sep-20 | TBS | 40 | 30-40 | 37.79 | 38.69 | 0.90 | NA | NM | NM | NM | NM | NM |
| MPE-1 | 23-Nov-20 | TBS | 40 | 30-40 | 37.84 | 38.69 | 0.85 | NA | NM | NM | NM | NM | NM |
| MPE-1 | 17-Mar-21 | TBS | 40 | 30-40 | 36.75 | 37.22 | 0.47 | NA | NM | NM | NM | NM | NM |
| MPE-1 | 17-Jun-21 | TBS | 40 | 30-40 | 36.94 | 37.13 | 0.19 | NA | NM | NM | NM | NM | NM |
| MPE-1 | 29-Sep-21 | TBS | 40 | 30-40 | 37.18 | 37.40 | 0.22 | NA | NM | NM | NM | NM | NM |
| MPE-1 | 30-Nov-21 | TBS | 40 | 30-40 | 37.22 | 37.39 | 0.17 | NA | NM | NM | NM | NM | NM |
| MPE-1 | 08-Mar-22 | TBS | 40 | 30-40 | -- | -- | 0.01 | NA | NM | NM | NM | NM | NM |
| MPE-1 | 09-Jun-22 | TBS | 40 | 30-40 | 37.29 | 37.39 | 0.10 | NA | NM | NM | NM | NM | NM |
| MPE-1 | 28-Sep-22 | TBS | 40 | 30-40 | 37.77 | 37.78 | 0.01 | NA | NM | NM | NM | NM | NM |
| MPE-1 | 21-Dec-22 | TBS | 40 | 30-40 | 38.68 | 38.72 | 0.04 | NA | NM | NM | NM | NM | NM |
| MPE-1 | 15-Mar-23 | TBS | 40 | 30-40 | 38.42 | 38.42 | sheen | NA | NM | NM | NM | NM | NM |
| MPE-1 | 22-Jun-23 | TBS | 40 | 30-40 | 38.09 | 38.43 | 0.34 | NA | NM | NM | NM | NM | NM |
| MPE-1 | 13-Sep-23 | TBS | 40 | 30-40 | 39.04 | 39.04 | sheen | NA | NM | NM | NM | NM | NM |
| MPE-1 | 13-Dec-23 | TBS | 40 | 30-40 | 37.67 | 37.68 | 0.01 | NA | NM | NM | NM | NM | NM |
| | | | | | | | | | | | | | |
| MPE-2 | 09-May-11 | TBS | 39 | 29-39 | 32.50 | 33.73 | 1.23 | NA | NM - 1.23 feet NAPL | | | | |
| MPE-2 | 15-Aug-11 | TBS | 39 | 29-39 | 33.28 | 33.69 | 0.41 | NA | NM - 0.41 feet NAPL | | | | |
| MPE-2 | 07-Oct-11 | TBS | 39 | 29-39 | 33.33 | 33.34 | 0.01 | NA | NM - 0.01 feet NAPL | | | | |
| MPE-2 | 21-Nov-11 | TBS | 39 | 29-39 | 33.28 | 33.41 | 0.13 | NA | NM - 0.13 feet NAPL | | | | |
| MPE-2 | 21-Feb-12 | TBS | 39 | 29-39 | 33.24 | 33.66 | 0.42 | NA | NM - 0.42 feet NAPL | | | | |
| MPE-2 | 24-May-12 | TBS | 39 | 29-39 | 33.21 | 33.91 | 0.70 | NA | NM - 0.70 feet NAPL | | | | |
| MPE-2 | 18-Sep-12 | TBS | 39 | 29-39 | 33.50 | 34.44 | 0.94 | NA | NM - 0.94 feet NAPL | | | | |
| MPE-2 | 04-Dec-12 | TBS | 39 | 29-39 | 33.68 | 34.68 | 1.00 | NA | NM - 1.00 feet NAPL | | | | |
| MPE-2 | 26-Mar-13 | TBS | 39 | 29-39 | 33.50 | 34.82 | 1.32 | NA | NM - 1.32 feet NAPL | | | | |
| MPE-2 | 26-Jun-13 | TBS | 39 | 29-39 | 33.66 | 34.88 | 1.22 | NA | NM - 1.22 feet NAPL | | | | |

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA
BMG HWY 537 LLAVES PIPELINE 2008 OIL RELEASE
Rio Arriba County, New Mexico

| Well ID | Date Sampled | Surveyed TOC (ft) | Total Well Depth (ft) | Screen Interval | Depth to NAPL (ft) | Depth to Water (ft) | NAPL Thickness (ft) | GW Elev. (ft) | Temp. (°C) | Specific Conduct. (mS) | Dissolved Oxygen (mg/L) | pH | ORP (mV) |
|---------|--------------|-------------------|-----------------------|-----------------|--------------------|---------------------|---------------------|---------------|---------------------|------------------------|-------------------------|----|----------|
| MPE-2 | 25-Sep-13 | TBS | 39 | 29-39 | 33.75 | 33.96 | 0.21 | NA | NM - 0.21 feet NAPL | | | | |
| MPE-2 | 14-Jan-14 | TBS | 39 | 29-39 | 33.80 | 34.13 | 0.33 | NA | NM | NM | NM | NM | NM |
| MPE-2 | 04-Apr-14 | TBS | 39 | 29-39 | 33.74 | 34.03 | 0.29 | NA | NM | NM | NM | NM | NM |
| MPE-2 | 10-Sep-14 | TBS | 39 | 29-39 | 34.03 | 34.44 | 0.41 | NA | NM | NM | NM | NM | NM |
| MPE-2 | 03-Dec-14 | TBS | 39 | 29-39 | 34.10 | 34.55 | 0.45 | NA | NM | NM | NM | NM | NM |
| MPE-2 | 09-Oct-15 | TBS | 39 | 29-39 | 34.07 | 34.43 | 0.36 | NA | NM | NM | NM | NM | NM |
| MPE-2 | 27-Mar-15 | TBS | 39 | 29-39 | 33.85 | 34.20 | 0.35 | NA | NM | NM | NM | NM | NM |
| MPE-2 | 09-Oct-15 | TBS | 39 | 29-39 | 34.07 | 34.43 | 0.36 | NA | NM | NM | NM | NM | NM |
| MPE-2 | 08-Dec-15 | TBS | 39 | 29-39 | 34.20 | 34.38 | 0.18 | NA | NM | NM | NM | NM | NM |
| MPE-2 | 17-Jun-16 | TBS | 39 | 29-39 | 34.31 | 34.43 | 0.12 | NA | NM | NM | NM | NM | NM |
| MPE-2 | 20-Oct-16 | TBS | 39 | 29-39 | 34.52 | 34.77 | 0.25 | NA | NM | NM | NM | NM | NM |
| MPE-2 | 27-Jan-17 | TBS | 39 | 29-39 | 34.48 | 34.73 | 0.25 | NA | NM | NM | NM | NM | NM |
| MPE-2 | 14-Apr-17 | TBS | 39 | 29-39 | 34.22 | 34.36 | 0.14 | NA | NM | NM | NM | NM | NM |
| MPE-2 | 21-Jun-17 | TBS | 39 | 29-39 | 34.36 | 34.62 | 0.26 | NA | NM | NM | NM | NM | NM |
| MPE-2 | 09-Aug-17 | TBS | 39 | 29-39 | 34.57 | 34.74 | 0.17 | NA | NM | NM | NM | NM | NM |
| MPE-2 | 07-Dec-17 | TBS | 39 | 29-39 | 34.47 | 34.62 | 0.15 | NA | NM | NM | NM | NM | NM |
| MPE-2 | 09-Jan-18 | TBS | 39 | 29-39 | 34.43 | 34.58 | 0.15 | NA | NM | NM | NM | NM | NM |
| MPE-2 | 12-Feb-18 | TBS | 39 | 29-39 | 34.41 | 34.50 | 0.09 | NA | NM | NM | NM | NM | NM |
| MPE-2 | 05-Mar-18 | TBS | 39 | 29-39 | 34.52 | 34.54 | 0.02 | NA | NM | NM | NM | NM | NM |
| MPE-2 | 05-Apr-18 | TBS | 39 | 29-39 | 34.52 | 34.57 | 0.05 | NA | NM | NM | NM | NM | NM |
| MPE-2 | 18-May-18 | TBS | 39 | 29-39 | 34.50 | 34.55 | 0.05 | NA | NM | NM | NM | NM | NM |
| MPE-2 | 12-Jun-18 | TBS | 39 | 29-39 | 34.67 | 34.79 | 0.12 | NA | NM | NM | NM | NM | NM |
| MPE-2 | 09-Jul-18 | TBS | 39 | 29-39 | 34.78 | 34.83 | 0.05 | NA | NM | NM | NM | NM | NM |
| MPE-2 | 13-Aug-18 | TBS | 39 | 29-39 | 34.83 | 34.87 | 0.04 | NA | NM | NM | NM | NM | NM |
| MPE-2 | 24-Sep-18 | TBS | 39 | 29-39 | 34.90 | 34.99 | 0.09 | NA | NM | NM | NM | NM | NM |
| MPE-2 | 26-Oct-18 | TBS | 39 | 29-39 | 34.95 | 35.00 | 0.05 | NA | NM | NM | NM | NM | NM |
| MPE-2 | 19-Nov-18 | TBS | 39 | 29-39 | 34.99 | 35.03 | 0.04 | NA | NM | NM | NM | NM | NM |
| MPE-2 | 14-Dec-18 | TBS | 39 | 29-39 | 35.03 | 35.09 | 0.06 | NA | NM | NM | NM | NM | NM |
| MPE-2 | 25-Sep-19 | TBS | 39 | 29-39 | 34.84 | 34.88 | 0.04 | NA | NM | NM | NM | NM | NM |

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA
BMG HWY 537 LLAVES PIPELINE 2008 OIL RELEASE
Rio Arriba County, New Mexico

| Well ID | Date Sampled | Surveyed TOC (ft) | Total Well Depth (ft) | Screen Interval | Depth to NAPL (ft) | Depth to Water (ft) | NAPL Thickness (ft) | GW Elev. (ft) | Temp. (°C) | Specific Conduct. (mS) | Dissolved Oxygen (mg/L) | pH | ORP (mV) |
|---------|--------------|-------------------|-----------------------|-----------------|--------------------|---------------------|---------------------|---------------|---------------------|------------------------|-------------------------|----|----------|
| MPE-2 | 10-Mar-20 | TBS | 39 | 29-39 | -- | 34.74 | -- | NA | NM | NM | NM | NM | NM |
| MPE-2 | 25-Mar-20 | TBS | 39 | 29-39 | 34.62 | 34.63 | 0.01 | NA | NM | NM | NM | NM | NM |
| MPE-2 | 23-Jun-20 | TBS | 39 | 29-39 | 34.85 | 34.85 | 0.00 | NA | NM | NM | NM | NM | NM |
| MPE-2 | 23-Sep-20 | TBS | 39 | 29-39 | 35.14 | 35.15 | 0.01 | NA | NM | NM | NM | NM | NM |
| MPE-2 | 23-Nov-20 | TBS | 39 | 29-39 | 35.11 | 35.13 | 0.02 | NA | NM | NM | NM | NM | NM |
| MPE-2 | 17-Mar-21 | TBS | 39 | 29-39 | -- | 35.21 | -- | NA | NM | NM | NM | NM | NM |
| MPE-2 | 17-Jun-21 | TBS | 39 | 29-39 | 35.32 | 35.33 | 0.01 | NA | NM | NM | NM | NM | NM |
| MPE-2 | 29-Sep-21 | TBS | 39 | 29-39 | 35.58 | 35.59 | 0.01 | NA | NM | NM | NM | NM | NM |
| MPE-2 | 30-Nov-21 | TBS | 39 | 29-39 | 35.61 | 35.62 | 0.01 | NA | NM | NM | NM | NM | NM |
| MPE-2 | 08-Mar-22 | TBS | 39 | 29-39 | -- | -- | 0.01 | NA | NM | NM | NM | NM | NM |
| MPE-2 | 09-Jun-22 | TBS | 39 | 29-39 | -- | 35.68 | -- | NA | NM | NM | NM | NM | NM |
| MPE-2 | 28-Sep-22 | TBS | 39 | 29-39 | 35.64 | 35.65 | 0.01 | NA | NM | NM | NM | NM | NM |
| MPE-2 | 21-Dec-22 | TBS | 39 | 29-39 | -- | 35.39 | -- | NA | NM | NM | NM | NM | NM |
| MPE-2 | 15-Mar-23 | TBS | 39 | 29-39 | -- | 35.29 | -- | NA | NM | NM | NM | NM | NM |
| MPE-2 | 22-Jun-23 | TBS | 39 | 29-39 | -- | -- | -- | NA | Did not gauge | | | | |
| MPE-2 | 13-Sep-23 | TBS | 39 | 29-39 | 35.97 | 35.98 | 0.01 | NA | NM | NM | NM | NM | NM |
| MPE-2 | 13-Dec-23 | TBS | 39 | 29-39 | -- | 35.51 | -- | NA | NM | NM | NM | NM | NM |
| | | | | | | | | | | | | | |
| MPE-3 | 09-May-11 | TBS | 38 | 28-38 | 32.43 | 34.65 | 2.22 | NA | NM - 2.22 feet NAPL | | | | |
| MPE-3 | 15-Aug-11 | TBS | 38 | 28-38 | 33.25 | 34.51 | 1.26 | NA | NM - 1.26 feet NAPL | | | | |
| MPE-3 | 07-Oct-11 | TBS | 38 | 28-38 | 33.40 | 33.74 | 0.34 | NA | NM - 0.34 feet NAPL | | | | |
| MPE-3 | 21-Nov-11 | TBS | 38 | 28-38 | 33.28 | 34.13 | 0.85 | NA | NM - 0.85 feet NAPL | | | | |
| MPE-3 | 21-Feb-12 | TBS | 38 | 28-38 | 33.18 | 34.83 | 1.65 | NA | NM - 1.65 feet NAPL | | | | |
| MPE-3 | 24-May-12 | TBS | 38 | 28-38 | 33.15 | 34.89 | 1.74 | NA | NM - 1.74 feet NAPL | | | | |
| MPE-3 | 18-Sep-12 | TBS | 38 | 28-38 | 33.45 | 37.10 | 3.65 | NA | NM - 3.65 feet NAPL | | | | |
| MPE-3 | 04-Dec-12 | TBS | 38 | 28-38 | 33.64 | 35.75 | 2.11 | NA | NM - 2.11 feet NAPL | | | | |
| MPE-3 | 26-Mar-13 | TBS | 38 | 28-38 | 33.49 | 35.31 | 1.82 | NA | NM - 1.82 feet NAPL | | | | |
| MPE-3 | 26-Jun-13 | TBS | 38 | 28-38 | 33.66 | 35.80 | 2.14 | NA | NM - 2.14 feet NAPL | | | | |
| MPE-3 | 25-Sep-13 | TBS | 38 | 28-38 | 33.76 | 34.30 | 0.54 | NA | NM - 0.54 feet NAPL | | | | |

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA
BMG HWY 537 LLAVES PIPELINE 2008 OIL RELEASE
Rio Arriba County, New Mexico

| Well ID | Date Sampled | Surveyed TOC (ft) | Total Well Depth (ft) | Screen Interval | Depth to NAPL (ft) | Depth to Water (ft) | NAPL Thickness (ft) | GW Elev. (ft) | Temp. (°C) | Specific Conduct. (mS) | Dissolved Oxygen (mg/L) | pH | ORP (mV) |
|---------|--------------|-------------------|-----------------------|-----------------|--------------------|---------------------|---------------------|---------------|------------|------------------------|-------------------------|----|----------|
| MPE-3 | 14-Jan-14 | TBS | 38 | 28-38 | 33.86 | 34.32 | 0.46 | NA | NM | NM | NM | NM | NM |
| MPE-3 | 04-Apr-14 | TBS | 38 | 28-38 | 33.83 | 34.18 | 0.35 | NA | NM | NM | NM | NM | NM |
| MPE-3 | 10-Sep-14 | TBS | 38 | 28-38 | 34.15 | 34.55 | 0.40 | NA | NM | NM | NM | NM | NM |
| MPE-3 | 03-Dec-14 | TBS | 38 | 28-38 | 34.20 | 34.57 | 0.37 | NA | NM | NM | NM | NM | NM |
| MPE-3 | 09-Oct-15 | TBS | 38 | 28-38 | 34.10 | 34.47 | 0.37 | NA | NM | NM | NM | NM | NM |
| MPE-3 | 27-Mar-15 | TBS | 38 | 28-38 | 33.96 | 34.20 | 0.24 | NA | NM | NM | NM | NM | NM |
| MPE-3 | 09-Oct-15 | TBS | 38 | 28-38 | 34.10 | 34.47 | 0.37 | NA | NM | NM | NM | NM | NM |
| MPE-3 | 08-Dec-15 | TBS | 38 | 28-38 | 34.28 | 34.56 | 0.28 | NA | NM | NM | NM | NM | NM |
| MPE-3 | 17-Jun-16 | TBS | 38 | 28-38 | 34.18 | 36.01 | 1.83 | NA | NM | NM | NM | NM | NM |
| MPE-3 | 20-Oct-16 | TBS | 38 | 28-38 | 34.35 | 36.53 | 2.18 | NA | NM | NM | NM | NM | NM |
| MPE-3 | 27-Jan-17 | TBS | 38 | 28-38 | 34.29 | 36.48 | 2.19 | NA | NM | NM | NM | NM | NM |
| MPE-3 | 14-Apr-17 | TBS | 38 | 28-38 | 34.05 | 35.85 | 1.80 | NA | NM | NM | NM | NM | NM |
| MPE-3 | 21-Jun-17 | TBS | 38 | 28-38 | 34.24 | 35.59 | 1.35 | NA | NM | NM | NM | NM | NM |
| MPE-3 | 09-Aug-17 | TBS | 38 | 28-38 | 34.39 | 36.39 | 2.00 | NA | NM | NM | NM | NM | NM |
| MPE-3 | 07-Dec-17 | TBS | 38 | 28-38 | 34.27 | 36.39 | 2.12 | NA | NM | NM | NM | NM | NM |
| MPE-3 | 09-Jan-18 | TBS | 38 | 28-38 | 34.22 | 36.33 | 2.11 | NA | NM | NM | NM | NM | NM |
| MPE-3 | 12-Feb-18 | TBS | 38 | 28-38 | 34.25 | 36.04 | 1.79 | NA | NM | NM | NM | NM | NM |
| MPE-3 | 05-Mar-18 | TBS | 38 | 28-38 | 34.40 | 35.81 | 1.41 | NA | NM | NM | NM | NM | NM |
| MPE-3 | 05-Apr-18 | TBS | 38 | 28-38 | 34.38 | 36.05 | 1.67 | NA | NM | NM | NM | NM | NM |
| MPE-3 | 18-May-18 | TBS | 38 | 28-38 | 34.43 | 36.11 | 1.68 | NA | NM | NM | NM | NM | NM |
| MPE-3 | 12-Jun-18 | TBS | 38 | 28-38 | 34.53 | 36.26 | 1.73 | NA | NM | NM | NM | NM | NM |
| MPE-3 | 09-Jul-18 | TBS | 38 | 28-38 | 34.66 | 36.19 | 1.53 | NA | NM | NM | NM | NM | NM |
| MPE-3 | 13-Aug-18 | TBS | 38 | 28-38 | 34.73 | 36.15 | 1.42 | NA | NM | NM | NM | NM | NM |
| MPE-3 | 24-Sep-18 | TBS | 38 | 28-38 | 34.85 | 35.95 | 1.10 | NA | NM | NM | NM | NM | NM |
| MPE-3 | 26-Oct-18 | TBS | 38 | 28-38 | 34.90 | 35.95 | 1.05 | NA | NM | NM | NM | NM | NM |
| MPE-3 | 19-Nov-18 | TBS | 38 | 28-38 | 34.84 | 36.43 | 1.59 | NA | NM | NM | NM | NM | NM |
| MPE-3 | 14-Dec-18 | TBS | 38 | 28-38 | 34.90 | 36.48 | 1.58 | NA | NM | NM | NM | NM | NM |
| MPE-3 | 25-Sep-19 | TBS | 38 | 28-38 | 34.66 | 36.57 | 1.91 | NA | NM | NM | NM | NM | NM |
| MPE-3 | 10-Mar-20 | TBS | 38 | 28-38 | 34.55 | 36.39 | 1.84 | NA | NM | NM | NM | NM | NM |

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA
BMG HWY 537 LLAVES PIPELINE 2008 OIL RELEASE
Rio Arriba County, New Mexico

| Well ID | Date Sampled | Surveyed TOC (ft) | Total Well Depth (ft) | Screen Interval | Depth to NAPL (ft) | Depth to Water (ft) | NAPL Thickness (ft) | GW Elev. (ft) | Temp. (°C) | Specific Conduct. (mS) | Dissolved Oxygen (mg/L) | pH | ORP (mV) |
|---------|--------------|-------------------|-----------------------|-----------------|--------------------|---------------------|---------------------|---------------|---------------------|------------------------|-------------------------|----|----------|
| MPE-3 | 25-Mar-20 | TBS | 38 | 28-38 | 34.45 | 36.24 | 1.79 | NA | NM | NM | NM | NM | NM |
| MPE-3 | 23-Jun-20 | TBS | 38 | 28-38 | 34.87 | 36.05 | 1.18 | NA | NM | NM | NM | NM | NM |
| MPE-3 | 23-Sep-20 | TBS | 38 | 28-38 | 35.13 | 36.66 | 1.53 | NA | NM | NM | NM | NM | NM |
| MPE-3 | 23-Nov-20 | TBS | 38 | 28-38 | 35.19 | 35.58 | 0.39 | NA | NM | NM | NM | NM | NM |
| MPE-3 | 17-Mar-21 | TBS | 38 | 28-38 | 35.18 | 36.05 | 0.87 | NA | NM | NM | NM | NM | NM |
| MPE-3 | 17-Jun-21 | TBS | 38 | 28-38 | 35.32 | 36.07 | 0.75 | NA | NM | NM | NM | NM | NM |
| MPE-3 | 29-Sep-21 | TBS | 38 | 28-38 | 35.51 | 36.61 | 1.10 | NA | NM | NM | NM | NM | NM |
| MPE-3 | 30-Nov-21 | TBS | 38 | 28-38 | 35.54 | 36.71 | 1.17 | NA | NM | NM | NM | NM | NM |
| MPE-3 | 08-Mar-22 | TBS | 38 | 28-38 | -- | -- | 0.03 | NA | NM | NM | NM | NM | NM |
| MPE-3 | 09-Jun-22 | TBS | 38 | 28-38 | 35.67 | 36.34 | 0.67 | NA | NM | NM | NM | NM | NM |
| MPE-3 | 28-Sep-22 | TBS | 38 | 28-38 | 35.67 | 35.98 | 0.31 | NA | NM | NM | NM | NM | NM |
| MPE-3 | 21-Dec-22 | TBS | 38 | 28-38 | 35.76 | 35.81 | 0.05 | NA | NM | NM | NM | NM | NM |
| MPE-3 | 15-Mar-23 | TBS | 38 | 28-38 | 36.00 | 36.03 | 0.03 | NA | NM | NM | NM | NM | NM |
| MPE-3 | 22-Jun-23 | TBS | 38 | 28-38 | 35.16 | 35.32 | 0.16 | NA | NM | NM | NM | NM | NM |
| MPE-3 | 13-Sep-23 | TBS | 38 | 28-38 | 34.78 | 34.81 | 0.03 | NA | NM | NM | NM | NM | NM |
| MPE-3 | 13-Dec-23 | TBS | 38 | 28-38 | -- | 35.91 | -- | NA | NM | NM | NM | NM | NM |
| | | | | | | | | | | | | | |
| MPE-4 | 09-May-11 | TBS | 38 | 28-38 | 33.45 | 35.74 | 2.29 | NA | NM - 2.29 feet NAPL | | | | |
| MPE-4 | 15-Aug-11 | TBS | 38 | 28-38 | 34.26 | 35.85 | 1.59 | NA | NM - 1.59 feet NAPL | | | | |
| MPE-4 | 07-Oct-11 | TBS | 38 | 28-38 | 34.46 | 34.67 | 0.21 | NA | NM - 0.21 feet NAPL | | | | |
| MPE-4 | 21-Nov-11 | TBS | 38 | 28-38 | 34.20 | 35.92 | 1.72 | NA | NM - 1.72 feet NAPL | | | | |
| MPE-4 | 21-Feb-12 | TBS | 38 | 28-38 | 34.16 | 36.17 | 2.01 | NA | NM - 2.01 feet NAPL | | | | |
| MPE-4 | 24-May-12 | TBS | 38 | 28-38 | 34.16 | 36.08 | 1.92 | NA | NM - 1.92 feet NAPL | | | | |
| MPE-4 | 18-Sep-12 | TBS | 38 | 28-38 | 34.48 | 36.64 | 2.16 | NA | NM - 2.16 feet NAPL | | | | |
| MPE-4 | 04-Dec-12 | TBS | 38 | 28-38 | 34.63 | 37.03 | 2.40 | NA | NM - 2.40 feet NAPL | | | | |
| MPE-4 | 26-Mar-13 | TBS | 38 | 28-38 | 34.47 | 36.58 | 2.11 | NA | NM - 2.11 feet NAPL | | | | |
| MPE-4 | 26-Jun-13 | TBS | 38 | 28-38 | 34.63 | 37.06 | 2.43 | NA | NM - 2.43 feet NAPL | | | | |
| MPE-4 | 25-Sep-13 | TBS | 38 | 28-38 | 34.61 | 36.60 | 1.99 | NA | NM - 1.99 feet NAPL | | | | |
| MPE-4 | 14-Jan-14 | TBS | 38 | 28-38 | 34.62 | 37.00 | 2.38 | NA | NM | NM | NM | NM | NM |

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA
BMG HWY 537 LLAVES PIPELINE 2008 OIL RELEASE
Rio Arriba County, New Mexico

| Well ID | Date Sampled | Surveyed TOC (ft) | Total Well Depth (ft) | Screen Interval | Depth to NAPL (ft) | Depth to Water (ft) | NAPL Thickness (ft) | GW Elev. (ft) | Temp. (°C) | Specific Conduct. (mS) | Dissolved Oxygen (mg/L) | pH | ORP (mV) |
|---------|--------------|-------------------|-----------------------|-----------------|--------------------|---------------------|---------------------|---------------|------------|------------------------|-------------------------|----|----------|
| MPE-4 | 04-Apr-14 | TBS | 38 | 28-38 | 34.59 | 36.91 | 2.32 | NA | NM | NM | NM | NM | NM |
| MPE-4 | 10-Sep-14 | TBS | 38 | 28-38 | 34.89 | 37.22 | 2.33 | NA | NM | NM | NM | NM | NM |
| MPE-4 | 03-Dec-14 | TBS | 38 | 28-38 | 34.95 | 37.30 | 2.35 | NA | NM | NM | NM | NM | NM |
| MPE-4 | 09-Oct-15 | TBS | 38 | 28-38 | 34.90 | 36.86 | 1.96 | NA | NM | NM | NM | NM | NM |
| MPE-4 | 27-Mar-15 | TBS | 38 | 28-38 | 34.73 | 36.82 | 2.09 | NA | NM | NM | NM | NM | NM |
| MPE-4 | 09-Oct-15 | TBS | 38 | 28-38 | 34.90 | 36.86 | 1.96 | NA | NM | NM | NM | NM | NM |
| MPE-4 | 08-Dec-15 | TBS | 38 | 28-38 | 35.09 | 37.17 | 2.08 | NA | NM | NM | NM | NM | NM |
| MPE-4 | 17-Jun-16 | TBS | 38 | 28-38 | 35.13 | 37.51 | 2.38 | NA | NM | NM | NM | NM | NM |
| MPE-4 | 20-Oct-16 | TBS | 38 | 28-38 | 35.38 | 37.83 | 2.45 | NA | NM | NM | NM | NM | NM |
| MPE-4 | 27-Jan-17 | TBS | 38 | 28-38 | 35.31 | 37.83 | 2.52 | NA | NM | NM | NM | NM | NM |
| MPE-4 | 14-Apr-17 | TBS | 38 | 28-38 | 35.06 | 37.16 | 2.10 | NA | NM | NM | NM | NM | NM |
| MPE-4 | 21-Jun-17 | TBS | 38 | 28-38 | 35.21 | 37.53 | 2.32 | NA | NM | NM | NM | NM | NM |
| MPE-4 | 09-Aug-17 | TBS | 38 | 28-38 | 35.42 | 37.65 | 2.23 | NA | NM | NM | NM | NM | NM |
| MPE-4 | 10-Aug-17 | TBS | 38 | 28-38 | 35.71 | 36.07 | 0.36 | NA | NM | NM | NM | NM | NM |
| MPE-4 | 14-Aug-17 | TBS | 38 | 28-38 | 35.62 | 36.24 | 0.62 | NA | NM | NM | NM | NM | NM |
| MPE-4 | 22-Aug-17 | TBS | 38 | 28-38 | 35.65 | 36.64 | 0.99 | NA | NM | NM | NM | NM | NM |
| MPE-4 | 07-Dec-17 | TBS | 38 | 28-38 | 35.53 | 37.53 | 2.00 | NA | NM | NM | NM | NM | NM |
| MPE-4 | 09-Jan-18 | TBS | 38 | 28-38 | 35.26 | 37.52 | 2.26 | NA | NM | NM | NM | NM | NM |
| MPE-4 | 12-Feb-18 | TBS | 38 | 28-38 | 35.31 | 37.15 | 1.84 | NA | NM | NM | NM | NM | NM |
| MPE-4 | 05-Mar-18 | TBS | 38 | 28-38 | 35.44 | 37.04 | 1.60 | NA | NM | NM | NM | NM | NM |
| MPE-4 | 05-Apr-18 | TBS | 38 | 28-38 | 35.47 | 37.03 | 1.56 | NA | NM | NM | NM | NM | NM |
| MPE-4 | 18-May-18 | TBS | 38 | 28-38 | 35.42 | 37.10 | 1.68 | NA | NM | NM | NM | NM | NM |
| MPE-4 | 12-Jun-18 | TBS | 38 | 28-38 | 35.73 | 36.58 | 0.85 | NA | NM | NM | NM | NM | NM |
| MPE-4 | 09-Jul-18 | TBS | 38 | 28-38 | 35.93 | 36.14 | 0.21 | NA | NM | NM | NM | NM | NM |
| MPE-4 | 13-Aug-18 | TBS | 38 | 28-38 | 35.99 | 36.04 | 0.05 | NA | NM | NM | NM | NM | NM |
| MPE-4 | 24-Sep-18 | TBS | 38 | 28-38 | 36.05 | 36.16 | 0.11 | NA | NM | NM | NM | NM | NM |
| MPE-4 | 26-Oct-18 | TBS | 38 | 28-38 | 36.11 | 36.17 | 0.06 | NA | NM | NM | NM | NM | NM |
| MPE-4 | 19-Nov-18 | TBS | 38 | 28-38 | 36.15 | 36.19 | 0.04 | NA | NM | NM | NM | NM | NM |
| MPE-4 | 14-Dec-18 | TBS | 38 | 28-38 | 36.21 | 36.26 | 0.05 | NA | NM | NM | NM | NM | NM |

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA
BMG HWY 537 LLAVES PIPELINE 2008 OIL RELEASE
Rio Arriba County, New Mexico

| Well ID | Date Sampled | Surveyed TOC (ft) | Total Well Depth (ft) | Screen Interval | Depth to NAPL (ft) | Depth to Water (ft) | NAPL Thickness (ft) | GW Elev. (ft) | Temp. (°C) | Specific Conduct. (mS) | Dissolved Oxygen (mg/L) | pH | ORP (mV) |
|---------|--------------|-------------------|-----------------------|-----------------|--------------------|---------------------|---------------------|---------------|--|------------------------|-------------------------|----|----------|
| MPE-4 | 25-Sep-19 | TBS | 38 | 28-38 | 35.70 | 37.86 | 2.16 | NA | NM | NM | NM | NM | NM |
| MPE-4 | 25-Mar-20 | TBS | 38 | 28-38 | -- | -- | -- | NA | NM - Lower and Upper Portions of Well Not Aligned Due to Shift at Approximately 35.32 Ft | | | | |
| MPE-4 | 23-Jun-20 | TBS | 38 | 28-38 | -- | -- | -- | NA | | | | | |
| MPE-4 | 23-Sep-20 | TBS | 38 | 28-38 | -- | -- | -- | NA | Well Damaged | | | | |
| MPE-4 | 23-Nov-20 | TBS | 38 | 28-38 | -- | -- | -- | NA | Well Obstructed at 35.28 Ft | | | | |
| MPE-4 | 17-Mar-21 | TBS | 38 | 28-38 | -- | -- | -- | NA | Well Obstructed at 35.28 Ft | | | | |
| MPE-4 | 17-Jun-21 | TBS | 38 | 28-38 | -- | -- | -- | NA | Well Obstructed at 35.28 Ft | | | | |
| MPE-4 | 29-Sep-21 | TBS | 38 | 28-38 | -- | -- | -- | NA | Well Obstructed at 35.25 Ft | | | | |
| MPE-4 | 30-Nov-21 | TBS | 38 | 28-38 | -- | -- | -- | NA | Well Obstructed at 35.28 Ft | | | | |
| MPE-4 | 08-Mar-22 | TBS | 38 | 28-38 | -- | -- | -- | NA | Well Obstructed at 35.25 Ft | | | | |
| MPE-4 | 09-Jun-22 | TBS | 38 | 28-38 | -- | -- | -- | NA | Well Obstructed | | | | |
| MPE-4 | 28-Sep-22 | TBS | 38 | 28-38 | -- | -- | -- | NA | Well Obstructed at 35.27 Ft | | | | |
| MPE-4 | 21-Dec-22 | TBS | 38 | 28-38 | -- | -- | -- | NA | Well Obstructed | | | | |
| MPE-4 | 13-Sep-23 | TBS | 38 | 28-38 | 33.32 | -- | 2.19 | NA | Well Obstructed at 35.51 Ft | | | | |
| MPE-4 | 13-Dec-23 | TBS | 38 | 28-38 | -- | -- | -- | NA | Well Obstructed at 35.28 Ft | | | | |
| | | | | | | | | | | | | | |
| MPE-5 | 09-May-11 | TBS | 40 | 30-40 | 34.93 | 37.70 | 2.77 | NA | NM - 2.77 feet NAPL | | | | |
| MPE-5 | 15-Aug-11 | TBS | 40 | 30-40 | 35.68 | 37.80 | 2.12 | NA | NM - 2.12 feet NAPL | | | | |
| MPE-5 | 07-Oct-11 | TBS | 40 | 30-40 | 35.69 | 37.82 | 2.13 | NA | NM - 2.13 feet NAPL | | | | |
| MPE-5 | 21-Nov-11 | TBS | 40 | 30-40 | 35.58 | 38.16 | 2.58 | NA | NM - 2.58 feet NAPL | | | | |
| MPE-5 | 21-Feb-12 | TBS | 40 | 30-40 | 35.61 | 38.03 | 2.42 | NA | NM - 2.42 feet NAPL | | | | |
| MPE-5 | 25-May-12 | TBS | 40 | 30-40 | 35.61 | 37.97 | 2.36 | NA | NM - 2.36 feet NAPL | | | | |
| MPE-5 | 18-Sep-12 | TBS | 40 | 30-40 | 35.89 | 38.55 | 2.66 | NA | NM - 2.66 feet NAPL | | | | |
| MPE-5 | 04-Dec-12 | TBS | 40 | 30-40 | 36.06 | 38.84 | 2.78 | NA | NM - 2.78 feet NAPL | | | | |
| MPE-5 | 26-Mar-13 | TBS | 40 | 30-40 | 35.94 | 38.36 | 2.42 | NA | NM - 2.42 feet NAPL | | | | |
| MPE-5 | 26-Jun-13 | TBS | 40 | 30-40 | 36.12 | 38.12 | 2.00 | NA | NM - 2.00 feet NAPL | | | | |
| MPE-5 | 25-Sep-13 | TBS | 40 | 30-40 | 36.09 | 38.38 | 2.29 | NA | NM - 2.29 feet NAPL | | | | |
| MPE-5 | 14-Jan-14 | TBS | 40 | 30-40 | 36.15 | 38.50 | 2.35 | NA | NM | NM | NM | NM | NM |
| MPE-5 | 04-Apr-14 | TBS | 40 | 30-40 | 36.15 | 38.32 | 2.17 | NA | NM | NM | NM | NM | NM |

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA
BMG HWY 537 LLAVES PIPELINE 2008 OIL RELEASE
Rio Arriba County, New Mexico

| Well ID | Date Sampled | Surveyed TOC (ft) | Total Well Depth (ft) | Screen Interval | Depth to NAPL (ft) | Depth to Water (ft) | NAPL Thickness (ft) | GW Elev. (ft) | Temp. (°C) | Specific Conduct. (mS) | Dissolved Oxygen (mg/L) | pH | ORP (mV) |
|---------|--------------|-------------------|-----------------------|-----------------|--------------------|---------------------|---------------------|---------------|------------|------------------------|-------------------------|----|----------|
| MPE-5 | 10-Sep-14 | TBS | 40 | 30-40 | 36.38 | 38.86 | 2.48 | NA | NM | NM | NM | NM | NM |
| MPE-5 | 03-Dec-14 | TBS | 40 | 30-40 | 36.49 | 38.91 | 2.42 | NA | NM | NM | NM | NM | NM |
| MPE-5 | 09-Oct-15 | TBS | 40 | 30-40 | 36.45 | 38.57 | 2.12 | NA | NM | NM | NM | NM | NM |
| MPE-5 | 27-Mar-15 | TBS | 40 | 30-40 | 36.27 | 38.28 | 2.01 | NA | NM | NM | NM | NM | NM |
| MPE-5 | 09-Oct-15 | TBS | 40 | 30-40 | 36.45 | 38.57 | 2.12 | NA | NM | NM | NM | NM | NM |
| MPE-5 | 08-Dec-15 | TBS | 40 | 30-40 | 36.58 | 38.92 | 2.34 | NA | NM | NM | NM | NM | NM |
| MPE-5 | 17-Jun-16 | TBS | 40 | 30-40 | 36.66 | 38.90 | 2.24 | NA | NM | NM | NM | NM | NM |
| MPE-5 | 20-Oct-16 | TBS | 40 | 30-40 | 36.88 | 39.31 | 2.43 | NA | NM | NM | NM | NM | NM |
| MPE-5 | 27-Jan-17 | TBS | 40 | 30-40 | 36.84 | 39.20 | 2.36 | NA | NM | NM | NM | NM | NM |
| MPE-5 | 14-Apr-17 | TBS | 40 | 30-40 | 36.61 | 38.55 | 1.94 | NA | NM | NM | NM | NM | NM |
| MPE-5 | 21-Jun-17 | TBS | 40 | 30-40 | 36.75 | 38.82 | 2.07 | NA | NM | NM | NM | NM | NM |
| MPE-5 | 09-Aug-17 | TBS | 40 | 30-40 | 36.91 | 39.22 | 2.31 | NA | NM | NM | NM | NM | NM |
| MPE-5 | 10-Aug-17 | TBS | 40 | 30-40 | 37.15 | 37.90 | 0.75 | NA | NM | NM | NM | NM | NM |
| MPE-5 | 14-Aug-17 | TBS | 40 | 30-40 | 37.01 | 38.43 | 1.42 | NA | NM | NM | NM | NM | NM |
| MPE-5 | 22-Aug-17 | TBS | 40 | 30-40 | 37.01 | 38.97 | 1.96 | NA | NM | NM | NM | NM | NM |
| MPE-5 | 26-Sep-17 | TBS | 40 | 30-40 | 37.09 | 38.65 | 1.56 | NA | NM | NM | NM | NM | NM |
| MPE-5 | 28-Sep-17 | TBS | 40 | 30-40 | 39.02 | 40.70 | 1.68 | NA | NM | NM | NM | NM | NM |
| MPE-5 | 07-Dec-17 | TBS | 40 | 30-40 | 36.85 | 38.97 | 2.12 | NA | NM | NM | NM | NM | NM |
| MPE-5 | 09-Jan-18 | TBS | 40 | 30-40 | 36.79 | 38.88 | 2.09 | NA | NM | NM | NM | NM | NM |
| MPE-5 | 12-Feb-18 | TBS | 40 | 30-40 | 36.86 | 38.49 | 1.63 | NA | NM | NM | NM | NM | NM |
| MPE-5 | 05-Mar-18 | TBS | 40 | 30-40 | 36.96 | 38.46 | 1.50 | NA | NM | NM | NM | NM | NM |
| MPE-5 | 05-Apr-18 | TBS | 40 | 30-40 | 37.01 | 38.38 | 1.37 | NA | NM | NM | NM | NM | NM |
| MPE-5 | 18-May-18 | TBS | 40 | 30-40 | 37.03 | 38.07 | 1.04 | NA | NM | NM | NM | NM | NM |
| MPE-5 | 12-Jun-18 | TBS | 40 | 30-40 | 37.21 | 38.18 | 0.97 | NA | NM | NM | NM | NM | NM |
| MPE-5 | 09-Jul-18 | TBS | 40 | 30-40 | 37.33 | 38.13 | 0.80 | NA | NM | NM | NM | NM | NM |
| MPE-5 | 13-Aug-18 | TBS | 40 | 30-40 | 37.36 | 38.25 | 0.89 | NA | NM | NM | NM | NM | NM |
| MPE-5 | 24-Sep-18 | TBS | 40 | 30-40 | 37.42 | 38.37 | 0.95 | NA | NM | NM | NM | NM | NM |
| MPE-5 | 26-Oct-18 | TBS | 40 | 30-40 | 37.50 | 38.26 | 0.76 | NA | NM | NM | NM | NM | NM |
| MPE-5 | 19-Nov-18 | TBS | 40 | 30-40 | 37.52 | 38.41 | 0.89 | NA | NM | NM | NM | NM | NM |

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA
BMG HWY 537 LLAVES PIPELINE 2008 OIL RELEASE
Rio Arriba County, New Mexico

| Well ID | Date Sampled | Surveyed TOC (ft) | Total Well Depth (ft) | Screen Interval | Depth to NAPL (ft) | Depth to Water (ft) | NAPL Thickness (ft) | GW Elev. (ft) | Temp. (°C) | Specific Conduct. (mS) | Dissolved Oxygen (mg/L) | pH | ORP (mV) |
|---------|--------------|-------------------|-----------------------|-----------------|--------------------|---------------------|---------------------|---------------|----------------------------|------------------------|-------------------------|----|----------|
| MPE-5 | 14-Dec-18 | TBS | 40 | 30-40 | 37.61 | 38.21 | 0.60 | NA | NM | NM | NM | NM | NM |
| MPE-5 | 25-Sep-19 | TBS | 40 | 30-40 | 37.43 | 37.97 | 0.54 | NA | NM | NM | NM | NM | NM |
| MPE-5 | 10-Mar-20 | TBS | 40 | 30-40 | 37.22 | 37.92 | 0.70 | NA | NM | NM | NM | NM | NM |
| MPE-5 | 25-Mar-20 | TBS | 40 | 30-40 | 37.21 | 37.83 | 0.62 | NA | NM | NM | NM | NM | NM |
| MPE-5 | 23-Jun-20 | TBS | 40 | 30-40 | 37.42 | 38.10 | 0.68 | NA | NM | NM | NM | NM | NM |
| MPE-5 | 23-Sep-20 | TBS | 40 | 30-40 | 37.72 | 38.35 | 0.63 | NA | NM | NM | NM | NM | NM |
| MPE-5 | 23-Nov-20 | TBS | 40 | 30-40 | 37.70 | 38.29 | 0.59 | NA | NM | NM | NM | NM | NM |
| MPE-5 | 17-Mar-21 | TBS | 40 | 30-40 | 37.80 | 38.41 | 0.61 | NA | NM | NM | NM | NM | NM |
| MPE-5 | 17-Jun-21 | TBS | 40 | 30-40 | 37.95 | 38.28 | 0.33 | NA | NM | NM | NM | NM | NM |
| MPE-5 | 29-Sep-21 | TBS | 40 | 30-40 | 37.93 | -- | -- | NA | Well Obstructed at 39.3 Ft | | | | |
| MPE-5 | 30-Nov-21 | TBS | 40 | 30-40 | 39.30 | -- | 0.20 | NA | NM | NM | NM | NM | NM |
| MPE-5 | 08-Mar-22 | TBS | 40 | 30-40 | -- | -- | 0.03 | NA | NM | NM | NM | NM | NM |
| MPE-5 | 09-Jun-22 | TBS | 40 | 30-40 | 38.00 | -- | 1.30 | NA | NM | NM | NM | NM | NM |
| MPE-5 | 28-Sep-22 | TBS | 40 | 30-40 | 38.00 | -- | 1.30 | NA | NM | NM | NM | NM | NM |
| MPE-5 | 21-Dec-22 | TBS | 40 | 30-40 | 38.00 | 39.08 | 1.08 | NA | NM | NM | NM | NM | NM |
| MPE-5 | 15-Mar-23 | TBS | 40 | 30-40 | 37.52 | 39.27 | 1.75 | NA | NM | NM | NM | NM | NM |
| MPE-5 | 22-Jun-23 | TBS | 40 | 30-40 | 37.52 | 39.29 | 1.77 | NA | NM | NM | NM | NM | NM |
| MPE-5 | 13-Sep-23 | TBS | 40 | 30-40 | 38.87 | 36.32 | 2.55 | NA | NM | NM | NM | NM | NM |
| MPE-5 | 13-Dec-23 | TBS | 40 | 30-40 | 37.76 | 39.98 | 2.22 | NA | NM | NM | NM | NM | NM |
| | | | | | | | | | | | | | |
| MPE-6 | 09-May-11 | TBS | 36 | 26-36 | | 33.05 | | NA | NM - NAPL | | | | |
| MPE-6 | 15-Aug-11 | TBS | 36 | 26-36 | 33.72 | 33.81 | 0.09 | NA | NM - 0.09 feet NAPL | | | | |
| MPE-6 | 07-Oct-11 | TBS | 36 | 26-36 | 33.67 | 34.05 | 0.38 | NA | NM - 0.38 feet NAPL | | | | |
| MPE-6 | 21-Nov-11 | TBS | 36 | 26-36 | 33.51 | 34.64 | 1.13 | NA | NM - 1.13 feet NAPL | | | | |
| MPE-6 | 21-Feb-12 | TBS | 36 | 26-36 | 33.46 | 35.02 | 1.56 | NA | NM - 1.56 feet NAPL | | | | |
| MPE-6 | 24-May-12 | TBS | 36 | 26-36 | 33.43 | 35.15 | 1.72 | NA | NM - 1.72 feet NAPL | | | | |
| MPE-6 | 18-Sep-12 | TBS | 36 | 26-36 | 34.03 | 36.11 | 2.08 | NA | NM - 2.08 feet NAPL | | | | |
| MPE-6 | 04-Dec-12 | TBS | 36 | 26-36 | 33.88 | 36.23 | 2.35 | NA | NM - 2.35 feet NAPL | | | | |
| MPE-6 | 26-Mar-13 | TBS | 36 | 26-36 | 34.71 | 35.85 | 1.14 | NA | NM - 1.14 feet NAPL | | | | |

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA
BMG HWY 537 LLAVES PIPELINE 2008 OIL RELEASE
Rio Arriba County, New Mexico

| Well ID | Date Sampled | Surveyed TOC (ft) | Total Well Depth (ft) | Screen Interval | Depth to NAPL (ft) | Depth to Water (ft) | NAPL Thickness (ft) | GW Elev. (ft) | Temp. (°C) | Specific Conduct. (mS) | Dissolved Oxygen (mg/L) | pH | ORP (mV) |
|---------|--------------|-------------------|-----------------------|-----------------|--------------------|---------------------|---------------------|---------------|---------------------|------------------------|-------------------------|----|----------|
| MPE-6 | 26-Jun-13 | TBS | 36 | 26-36 | 33.88 | 36.45 | 2.57 | NA | NM - 2.57 feet NAPL | | | | |
| MPE-6 | 25-Sep-13 | TBS | 36 | 26-36 | 35.80 | 36.80 | 1.00 | NA | NM - 1.00 feet NAPL | | | | |
| MPE-6 | 14-Jan-14 | TBS | 36 | 26-36 | 33.88 | 36.14 | 2.26 | NA | NM | NM | NM | NM | NM |
| MPE-6 | 04-Apr-14 | TBS | 36 | 26-36 | 33.82 | 36.10 | 2.28 | NA | NM | NM | NM | NM | NM |
| MPE-6 | 10-Sep-14 | TBS | 36 | 26-36 | 34.12 | 36.42 | 2.30 | NA | NM | NM | NM | NM | NM |
| MPE-6 | 03-Dec-14 | TBS | 36 | 26-36 | 34.20 | 36.50 | 2.30 | NA | NM | NM | NM | NM | NM |
| MPE-6 | 09-Oct-15 | TBS | 36 | 26-36 | 34.16 | 36.21 | 2.05 | NA | NM | NM | NM | NM | NM |
| MPE-6 | 27-Mar-15 | TBS | 36 | 26-36 | 33.97 | 35.95 | 1.98 | NA | NM | NM | NM | NM | NM |
| MPE-6 | 09-Oct-15 | TBS | 36 | 26-36 | 34.16 | 36.21 | 2.05 | NA | NM | NM | NM | NM | NM |
| MPE-6 | 08-Dec-15 | TBS | 36 | 26-36 | 34.63 | 36.68 | 2.05 | NA | NM | NM | NM | NM | NM |
| MPE-6 | 17-Jun-16 | TBS | 36 | 26-36 | 34.36 | 36.65 | 2.29 | NA | NM | NM | NM | NM | NM |
| MPE-6 | 20-Oct-16 | TBS | 36 | 26-36 | 34.62 | 36.80 | 2.18 | NA | NM | NM | NM | NM | NM |
| MPE-6 | 27-Jan-17 | TBS | 36 | 26-36 | 34.55 | 36.76 | 2.21 | NA | NM | NM | NM | NM | NM |
| MPE-6 | 14-Apr-17 | TBS | 36 | 26-36 | 34.30 | 36.20 | 1.90 | NA | NM | NM | NM | NM | NM |
| MPE-6 | 21-Jun-17 | TBS | 36 | 26-36 | 34.45 | 36.60 | 2.15 | NA | NM | NM | NM | NM | NM |
| MPE-6 | 09-Aug-17 | TBS | 36 | 26-36 | 34.71 | 36.44 | 1.73 | NA | NM | NM | NM | NM | NM |
| MPE-6 | 07-Dec-17 | TBS | 36 | 26-36 | 34.60 | 36.56 | 1.96 | NA | NM | NM | NM | NM | NM |
| MPE-6 | 09-Jan-18 | TBS | 36 | 26-36 | 34.51 | 36.54 | 2.03 | NA | NM | NM | NM | NM | NM |
| MPE-6 | 12-Feb-18 | TBS | 36 | 26-36 | 34.58 | 36.08 | 1.50 | NA | NM | NM | NM | NM | NM |
| MPE-6 | 05-Mar-18 | TBS | 36 | 26-36 | 34.73 | 35.81 | 1.08 | NA | NM | NM | NM | NM | NM |
| MPE-6 | 05-Apr-18 | TBS | 36 | 26-36 | 34.73 | 36.02 | 1.29 | NA | NM | NM | NM | NM | NM |
| MPE-6 | 18-May-18 | TBS | 36 | 26-36 | 34.68 | 36.13 | 1.45 | NA | NM | NM | NM | NM | NM |
| MPE-6 | 12-Jun-18 | TBS | 36 | 26-36 | 34.95 | 35.76 | 0.81 | NA | NM | NM | NM | NM | NM |
| MPE-6 | 09-Jul-18 | TBS | 36 | 26-36 | 35.10 | 35.60 | 0.50 | NA | NM | NM | NM | NM | NM |
| MPE-6 | 13-Aug-18 | TBS | 36 | 26-36 | 35.17 | 35.50 | 0.33 | NA | NM | NM | NM | NM | NM |
| MPE-6 | 24-Sep-18 | TBS | 36 | 26-36 | 35.27 | 35.48 | 0.21 | NA | NM | NM | NM | NM | NM |
| MPE-6 | 26-Oct-18 | TBS | 36 | 26-36 | 35.30 | 35.56 | 0.26 | NA | NM | NM | NM | NM | NM |
| MPE-6 | 19-Nov-18 | TBS | 36 | 26-36 | 35.06 | 35.34 | 0.28 | NA | NM | NM | NM | NM | NM |
| MPE-6 | 14-Dec-18 | TBS | 36 | 26-36 | 35.40 | 35.60 | 0.20 | NA | NM | NM | NM | NM | NM |

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA
BMG HWY 537 LLAVES PIPELINE 2008 OIL RELEASE
Rio Arriba County, New Mexico

| Well ID | Date Sampled | Surveyed TOC (ft) | Total Well Depth (ft) | Screen Interval | Depth to NAPL (ft) | Depth to Water (ft) | NAPL Thickness (ft) | GW Elev. (ft) | Temp. (°C) | Specific Conduct. (mS) | Dissolved Oxygen (mg/L) | pH | ORP (mV) |
|---------|--------------|-------------------|-----------------------|-----------------|--------------------|---------------------|---------------------|---------------|---------------------|------------------------|-------------------------|----|----------|
| MPE-6 | 25-Sep-19 | TBS | 36 | 26-36 | 35.13 | 35.93 | 0.80 | NA | NM | NM | NM | NM | NM |
| MPE-6 | 10-Mar-20 | TBS | 36 | 26-36 | 35.81 | 35.86 | 0.05 | NA | NM | NM | NM | NM | NM |
| MPE-6 | 25-Mar-20 | TBS | 36 | 26-36 | 35.01 | 35.17 | 0.16 | NA | NM | NM | NM | NM | NM |
| MPE-6 | 23-Jun-20 | TBS | 36 | 26-36 | 35.12 | 36.07 | 0.95 | NA | NM | NM | NM | NM | NM |
| MPE-6 | 23-Sep-20 | TBS | 36 | 26-36 | 35.39 | 36.34 | 0.95 | NA | NM | NM | NM | NM | NM |
| MPE-6 | 23-Nov-20 | TBS | 36 | 26-36 | 35.37 | 36.27 | 0.60 | NA | NM | NM | NM | NM | NM |
| MPE-6 | 17-Mar-21 | TBS | 36 | 26-36 | 35.48 | 36.19 | 0.71 | NA | NM | NM | NM | NM | NM |
| MPE-6 | 17-Jun-21 | TBS | 36 | 26-36 | 35.68 | 36.00 | 0.32 | NA | NM | NM | NM | NM | NM |
| MPE-6 | 29-Sep-21 | TBS | 36 | 26-36 | 36.00 | 36.25 | 0.25 | NA | NM | NM | NM | NM | NM |
| MPE-6 | 30-Nov-21 | TBS | 36 | 26-36 | 35.94 | 36.28 | 0.34 | NA | NM | NM | NM | NM | NM |
| MPE-6 | 08-Mar-22 | TBS | 36 | 26-36 | -- | -- | 0.01 | NA | NM | NM | NM | NM | NM |
| MPE-6 | 09-Jun-22 | TBS | 36 | 26-36 | 36.03 | 36.16 | 0.13 | NA | NM | NM | NM | NM | NM |
| MPE-6 | 28-Sep-22 | TBS | 36 | 26-36 | 36.13 | 36.21 | 0.08 | NA | NM | NM | NM | NM | NM |
| MPE-6 | 21-Dec-22 | TBS | 36 | 26-36 | 36.31 | 36.33 | 0.02 | NA | NM | NM | NM | NM | NM |
| MPE-6 | 15-Mar-23 | TBS | 36 | 26-36 | 35.65 | 35.65 | sheen | NA | NM | NM | NM | NM | NM |
| MPE-6 | 22-Jun-23 | TBS | 36 | 26-36 | 35.39 | 35.39 | sheen | NA | NM | NM | NM | NM | NM |
| MPE-6 | 13-Sep-23 | TBS | 36 | 26-36 | 35.59 | 35.59 | sheen | NA | NM | NM | NM | NM | NM |
| MPE-6 | 13-Dec-23 | TBS | 36 | 26-36 | -- | 36.00 | -- | NA | NM | NM | NM | NM | NM |
| | | | | | | | | | | | | | |
| MPE-7 | 09-May-11 | TBS | 36 | 26-36 | 30.87 | 30.88 | 0.01 | NA | NM - 0.01 feet NAPL | | | | |
| MPE-7 | 15-Aug-11 | TBS | 36 | 26-36 | | 31.59 | | NA | NM | NM | NM | NM | NM |
| MPE-7 | 07-Oct-11 | TBS | 36 | 26-36 | | 31.60 | | NA | NM | NM | NM | NM | NM |
| MPE-7 | 21-Nov-11 | TBS | 36 | 26-36 | 31.54 | 31.55 | 0.01 | NA | NM - 0.01 feet NAPL | | | | |
| MPE-7 | 21-Feb-12 | TBS | 36 | 26-36 | 31.54 | 31.55 | 0.01 | NA | NM - 0.01 feet NAPL | | | | |
| MPE-7 | 24-May-12 | TBS | 36 | 26-36 | 31.52 | 31.53 | 0.01 | NA | NM - 0.01 feet NAPL | | | | |
| MPE-7 | 18-Sep-12 | TBS | 36 | 26-36 | | 32.18 | | NA | NM | NM | NM | NM | NM |
| MPE-7 | 04-Dec-12 | TBS | 36 | 26-36 | | 32.09 | | NA | NM | NM | NM | NM | NM |
| MPE-7 | 26-Mar-13 | TBS | 36 | 26-36 | | 31.87 | | NA | NM | NM | NM | NM | NM |
| MPE-7 | 26-Jun-13 | TBS | 36 | 26-36 | | 32.09 | | NA | NM | NM | NM | NM | NM |

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA
BMG HWY 537 LLAVES PIPELINE 2008 OIL RELEASE
Rio Arriba County, New Mexico

| Well ID | Date Sampled | Surveyed TOC (ft) | Total Well Depth (ft) | Screen Interval | Depth to NAPL (ft) | Depth to Water (ft) | NAPL Thickness (ft) | GW Elev. (ft) | Temp. (°C) | Specific Conduct. (mS) | Dissolved Oxygen (mg/L) | pH | ORP (mV) |
|---------|--------------|-------------------|-----------------------|-----------------|--------------------|---------------------|---------------------|---------------|------------|------------------------|-------------------------|----|----------|
| MPE-7 | 25-Sep-13 | TBS | 36 | 26-36 | | 31.99 | | NA | NM | NM | NM | NM | NM |
| MPE-7 | 14-Jan-14 | TBS | 36 | 26-36 | NM | NM | -- | NA | NM | NM | NM | NM | NM |
| MPE-7 | 04-Apr-14 | TBS | 36 | 26-36 | 32.00 | 32.01 | 0.01 | NA | NM | NM | NM | NM | NM |
| MPE-7 | 10-Sep-14 | TBS | 36 | 26-36 | -- | 32.34 | -- | NA | NM | NM | NM | NM | NM |
| MPE-7 | 03-Dec-14 | TBS | 36 | 26-36 | -- | 32.41 | -- | NA | NM | NM | NM | NM | NM |
| MPE-7 | 09-Oct-15 | TBS | 36 | 26-36 | -- | 32.29 | -- | NA | NM | NM | NM | NM | NM |
| MPE-7 | 27-Mar-15 | TBS | 36 | 26-36 | -- | 32.14 | -- | NA | NM | NM | NM | NM | NM |
| MPE-7 | 09-Oct-15 | TBS | 36 | 26-36 | -- | 32.29 | -- | NA | NM | NM | NM | NM | NM |
| MPE-7 | 08-Dec-15 | TBS | 36 | 26-36 | -- | 32.47 | -- | NA | NM | NM | NM | NM | NM |
| MPE-7 | 17-Jun-16 | TBS | 36 | 26-36 | -- | 32.56 | -- | NA | NM | NM | NM | NM | NM |
| MPE-7 | 20-Oct-16 | TBS | 36 | 26-36 | -- | 32.79 | -- | NA | NM | NM | NM | NM | NM |
| MPE-7 | 27-Jan-17 | TBS | 36 | 26-36 | -- | 32.76 | -- | NA | NM | NM | NM | NM | NM |
| MPE-7 | 25-Sep-19 | TBS | 36 | 26-36 | -- | 33.12 | -- | NA | NM | NM | NM | NM | NM |
| MPE-7 | 25-Mar-20 | TBS | 36 | 26-36 | -- | 32.85 | -- | NA | NM | NM | NM | NM | NM |
| MPE-7 | 23-Jun-20 | TBS | 36 | 26-36 | -- | 33.12 | -- | NA | NM | NM | NM | NM | NM |
| MPE-7 | 23-Sep-20 | TBS | 36 | 26-36 | -- | 33.43 | -- | NA | NM | NM | NM | NM | NM |
| MPE-7 | 23-Nov-20 | TBS | 36 | 26-36 | -- | 33.34 | -- | NA | NM | NM | NM | NM | NM |
| MPE-7 | 17-Mar-21 | TBS | 36 | 26-36 | -- | 33.50 | -- | NA | NM | NM | NM | NM | NM |
| MPE-7 | 17-Jun-21 | TBS | 36 | 26-36 | -- | 33.57 | -- | NA | NM | NM | NM | NM | NM |
| MPE-7 | 29-Sep-21 | TBS | 36 | 26-36 | -- | 33.80 | -- | NA | NM | NM | NM | NM | NM |
| MPE-7 | 30-Nov-21 | TBS | 36 | 26-36 | -- | 33.86 | -- | NA | NM | NM | NM | NM | NM |
| MPE-7 | 08-Mar-22 | TBS | 36 | 26-36 | -- | 33.81 | -- | NA | NM | NM | NM | NM | NM |
| MPE-7 | 09-Jun-22 | TBS | 36 | 26-36 | -- | 33.92 | -- | NA | NM | NM | NM | NM | NM |
| MPE-7 | 28-Sep-22 | TBS | 36 | 26-36 | -- | 33.88 | -- | NA | NM | NM | NM | NM | NM |
| MPE-7 | 21-Dec-22 | TBS | 36 | 26-36 | -- | 33.64 | -- | NA | NM | NM | NM | NM | NM |
| MPE-7 | 22-Jun-23 | TBS | 36 | 26-36 | -- | 33.22 | -- | NA | NM | NM | NM | NM | NM |
| MPE-7 | 13-Sep-23 | TBS | 36 | 26-36 | -- | 33.91 | -- | NA | NM | NM | NM | NM | NM |
| MPE-7 | 13-Dec-23 | TBS | 36 | 26-36 | -- | 33.64 | -- | NA | NM | NM | NM | NM | NM |

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA
BMG HWY 537 LLAVES PIPELINE 2008 OIL RELEASE
Rio Arriba County, New Mexico

| <i>Well ID</i> | <i>Date Sampled</i> | <i>Surveyed TOC (ft)</i> | <i>Total Well Depth (ft)</i> | <i>Screen Interval</i> | <i>Depth to NAPL (ft)</i> | <i>Depth to Water (ft)</i> | <i>NAPL Thickness (ft)</i> | <i>GW Elev. (ft)</i> | <i>Temp. (°C)</i> | <i>Specific Conduct. (mS)</i> | <i>Dissolved Oxygen (mg/L)</i> | <i>pH</i> | <i>ORP (mV)</i> |
|----------------|-------------------------|------------------------------|----------------------------------|----------------------------|-----------------------------------|--------------------------------|------------------------------------|--------------------------|-----------------------|---------------------------------------|--|-----------|---------------------|
|----------------|-------------------------|------------------------------|----------------------------------|----------------------------|-----------------------------------|--------------------------------|------------------------------------|--------------------------|-----------------------|---------------------------------------|--|-----------|---------------------|

NOTE: **Table includes only data from 2014 through present; comprehensive table available upon request.

NA - NOT AVAILABLE

NM - NOT MEASURED

NS - NOT SAMPLED

TBS - TO BE SURVEYED

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS -
VOLATILE ORGANICS AND PETROLEUM HYDROCARBONS
BMG HWY 537 LLAVES PIPELINE 2008 OIL RELEASE
Rio Arriba County, New Mexico

| Well ID | Date Sampled | Benzene (µg/L) | Toluene (µg/L) | Ethyl- benzene (µg/L) | Total Xylenes (µg/L) | TPH-GRO (mg/L) | TPH-DRO (mg/L) | TPH-MRO (mg/L) |
|--------------------------|--------------|--------------------------------|-------------------|-----------------------------|----------------------------|-------------------|-------------------|-------------------|
| Analytical Method | | 8021/8260 | 8021/826 | 8021/8260 | 8021/8260 | 8015D | 8015M/D | 8015M/D |
| New Mexico WQCC | | 5 | 1000 | 700 | 620 | NE | NE | NE |
| MW-1 | 05-May-08 | <1.0 | <1.0 | <1.0 | <2.0 | 0.092 | <1.0 | <5.0 |
| MW-1 | 24-Sep-08 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-1 | 02-Jan-09 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-1 | 07-Apr-09 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-1 | 07-Jul-09 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-1 | 12-Oct-09 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-1 | 12-Jan-10 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-1 | 13-Oct-10 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-1 | 20-Jan-11 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-1 | 10-May-11 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-1 | 07-Aug-17 | Plugged and Abandoned | | | | | | |
| | | | | | | | | |
| MW-2 | 05-May-08 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-2 | 24-Sep-08 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-2 | 02-Jan-09 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-2 | 07-Apr-09 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-2 | 07-Jul-09 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-2 | 12-Oct-09 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-2 | 12-Jan-10 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-2 | 13-Oct-10 | NS - Well Filled with Roots | | | | | | |
| MW-2 | 20-Jan-11 | NS - Well Filled with Roots | | | | | | |
| MW-2 | 10-May-11 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| | | | | | | | | |
| MW-3 | 05-May-08 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-3 | 24-Sep-08 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-3 | 02-Jan-09 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-3 | 07-Apr-09 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-3 | 07-Jul-09 | NS - Well filled with sediment | | | | | | |
| MW-3 | 12-Oct-09 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-3 | 12-Jan-10 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-3 | 13-Oct-10 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-3 | 20-Jan-11 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-3 | 10-May-11 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-3 | 07-Aug-17 | Plugged and Abandoned | | | | | | |
| | | | | | | | | |
| MW-4 | 05-May-08 | <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 LLAVES PIPELINE 2008 OIL 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 | | 8021/8260 | 8021/826 | 8021/8260 | 8021/8260 | 8015D | 8015M/D | 8015M/D |
| New Mexico WQCC | | 5 | 1000 | 700 | 620 | NE | NE | NE |
| MW-4 | 24-Sep-08 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-4 | 02-Jan-09 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-4 | 07-Apr-09 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-4 | 07-Jul-09 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-4 | 12-Oct-09 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-4 | 12-Jan-10 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-4 | 13-Oct-10 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-4 | 20-Jan-11 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-4 | 09-May-11 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-4 | 07-Aug-17 | Plugged and Abandoned | | | | | | |
| | | | | | | | | |
| MW-5 | 05-May-08 | NS - Well Dry | | | | | | |
| MW-5 | 07-Aug-17 | Plugged and Abandoned | | | | | | |
| | | | | | | | | |
| MW-6 | 05-May-08 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-6 | 24-Sep-08 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-6 | 02-Jan-09 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-6 | 07-Apr-09 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-6 | 07-Jul-09 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-6 | 12-Oct-09 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-6 | 12-Jan-10 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-6 | 13-Oct-10 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-6 | 20-Jan-11 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-6 | 09-May-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 | 05-May-08 | 2.8 | <1.0 | <1.0 | <2.0 | 0.40 | <1.0 | <5.0 |
| MW-7 | 24-Sep-08 | <1.0 | <1.0 | <1.0 | <2.0 | 0.069 | <1.0 | <5.0 |
| MW-7 | 02-Jan-09 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-7 | 07-Apr-09 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-7 | 07-Jul-09 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-7 | 12-Oct-09 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-7 | 12-Jan-10 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-7 | 13-Oct-10 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-7 | 20-Jan-11 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-7 | 09-May-11 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| | | | | | | | | |
| MW-8 | 05-May-08 | 26 | 10 | <1.0 | <2.0 | 1.10 | <1.0 | <5.0 |

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS -
VOLATILE ORGANICS AND PETROLEUM HYDROCARBONS
BMG HWY 537 LLAVES PIPELINE 2008 OIL RELEASE
Rio Arriba County, New Mexico

| Well ID | Date Sampled | Benzene (µg/L) | Toluene (µg/L) | Ethyl- benzene (µg/L) | Total Xylenes (µg/L) | TPH-GRO (mg/L) | TPH-DRO (mg/L) | TPH-MRO (mg/L) |
|--------------------------|--------------|-----------------------------------|-------------------|-----------------------------|----------------------------|-------------------|-------------------|-------------------|
| Analytical Method | | 8021/8260 | 8021/826 | 8021/8260 | 8021/8260 | 8015D | 8015M/D | 8015M/D |
| New Mexico WQCC | | 5 | 1000 | 700 | 620 | NE | NE | NE |
| MW-8 | 24-Sep-08 | 65 | 26 | <1.0 | <2.0 | 0.90 | <1.0 | <5.0 |
| MW-8 | 05-Jan-09 | 45 | 25 | <1.0 | 2.2 | 1.0 | <1.0 | <5.0 |
| MW-8 | 07-Apr-09 | 25 | 20 | <1.0 | 2.9 | 0.89 | <1.0 | <5.0 |
| MW-8 | 07-Jul-09 | 7.5 | 4.5 | <1.0 | <2.0 | 0.21 | <1.0 | <5.0 |
| MW-8 | 12-Oct-09 | 15 | 11 | <1.0 | <2.0 | 0.52 | <1.0 | <5.0 |
| MW-8 | 12-Jan-10 | <1.0 | <1.0 | <1.0 | <2.0 | 0.088 | <1.0 | <5.0 |
| MW-8 | 13-Oct-10 | 12 | <1.0 | 1.7 | 16 | 0.25 | <1.0 | <5.0 |
| MW-8 | 20-Jan-11 | 35 | <1.0 | 6.5 | 6.3 | 0.16 | <1.0 | <5.0 |
| MW-8 | 10-May-11 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-8 | 15-Aug-11 | <2.0 | <2.0 | <2.0 | <4.0 | <0.10 | <1.0 | <5.0 |
| MW-8 | 21-Nov-11 | <2.0 | <2.0 | <2.0 | <4.0 | <0.10 | 2.2 | <5.0 |
| MW-8 | 21-Feb-12 | <2.0 | <2.0 | <2.0 | <4.0 | <0.10 | <1.0 | <5.0 |
| MW-8 | 24-May-12 | <2.0 | <2.0 | <2.0 | <4.0 | <0.10 | <1.0 | <5.0 |
| MW-8 | 21-Sep-12 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <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 | 26-Jun-13 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-8 | 07-Aug-17 | Plugged and Abandoned | | | | | | |
| | | | | | | | | |
| MW-9 | 05-May-08 | 6.2 | 7.5 | <1.0 | 2.3 | 0.90 | <1.0 | <5.0 |
| MW-9 | 24-Sep-08 | 17 | 12 | <1.0 | <2.0 | 0.32 | <1.0 | <5.0 |
| MW-9 | 05-Jan-09 | NS - Well Dry | | | | | | |
| MW-9 | 07-Apr-09 | 12 | 6.2 | <1.0 | <2.0 | 0.32 | <1.0 | <5.0 |
| MW-9 | 07-Jul-09 | 7.0 | 5.3 | <1.0 | <2.0 | 0.28 | <1.0 | <5.0 |
| MW-9 | 12-Oct-09 | 26 | 2.0 | <1.0 | <2.0 | 0.31 | <1.0 | <5.0 |
| MW-9 | 12-Jan-10 | NAPL Present through Current Date | | | | | | |
| | | | | | | | | |
| MW-9R | 25-Sep-19 | <1.0 | <1.0 | 56 | 80 | 0.87 | <1.0 | <5.0 |
| MW-9R | 25-Mar-20 | <2.0 | <2.0 | 50 | 44 | 0.66 | 1.2 | <5.0 |
| MW-9R | 23-Jun-20 | <1.0 | <1.0 | 11 | 23 | 0.86 | 46 | 20 |
| MW-9R | 23-Sep-20 | <5.0 | <5.0 | 38 | 100 | 3.8 | 550 | 270 |
| MW-9R | 23-Nov-20 | <5.0 | <5.0 | 12 | 29 | 1.0 | 250 | 120 |
| MW-9R | 17-Mar-21 | <1.0 | <1.0 | <1.0 | 6.7 | 2.9 | 220 | 98 |
| MW-9R | 29-Sep-21 | NS - Insufficient Water | | | | | | |
| MW-9R | 30-Nov-21 | NS - Insufficient Water | | | | | | |
| MW-9R | 08-Mar-22 | NS - Insufficient Water | | | | | | |
| MW-9R | 09-Jun-22 | NS - Insufficient Water | | | | | | |
| MW-9R | 28-Sep-22 | <2.0 | <2.0 | <2.0 | <3.0 | NA | NA | NA |

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS -
VOLATILE ORGANICS AND PETROLEUM HYDROCARBONS
BMG HWY 537 LLAVES PIPELINE 2008 OIL RELEASE
Rio Arriba County, New Mexico

| Well ID | Date Sampled | Benzene | Toluene | Ethyl- benzene | Total Xylenes | TPH-GRO | TPH-DRO | TPH-MRO |
|--------------------------|-----------------|---------------------|---------------------|---------------------|---------------------|-------------------|-------------------|-------------------|
| | | ($\mu\text{g/L}$) | ($\mu\text{g/L}$) | ($\mu\text{g/L}$) | ($\mu\text{g/L}$) | (mg/L) | (mg/L) | (mg/L) |
| Analytical Method | | 8021/8260 | 8021/826 | 8021/8260 | 8021/8260 | 8015D | 8015M/D | 8015M/D |
| New Mexico WQCC | | 5 | 1000 | 700 | 620 | NE | NE | NE |
| MW-9R | 21-Dec-22 | <2.0 | <2.0 | <2.0 | <3.0 | 0.24 | NA | NA |
| MW-9R | 13-Dec-23 | <2.0 | <2.0 | <2.0 | <3.0 | 0.34 | 31 | 13 |

NOTE: NS = Not Sampled
NA = Not Analyzed
TPH = Total Petroleum Hydrocarbons
GRO = Gasoline Range Organics
DRO = Diesel Range Organics
MRO = Motor Oil Range Organics

TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS - WQCC GROUNDWATER STANDARDS
(NMAC 20.6.2.3103)
BMG HWY 537 LLAVES PIPELINE 2008 OIL RELEASE
Rio Arriba County, New Mexico

| <i>Well ID</i> | <i>Sample Date</i> | <i>Total Dissolved Solids</i> | <i>Dissolved Iron</i> | <i>Dissolved Manganese</i> | <i>Phenols</i> |
|--------------------------|--------------------|-------------------------------|-----------------------|----------------------------|--------------------|
| <i>Analytical Method</i> | | 2540C | 200.7/6010B | 200.7/6010B | SW-846 9067 |
| <i>NM WQCC Standard</i> | | 1,000 | 1.0 | 0.2 | 0.005 |
| MW-7 | 23-Jun-20 | NA | 0.11 | 0.18 | NA |
| MW-7 | 13-Dec-23 | 980 | NA | NA | NA |
| MW-9R | 25-Sep-19 | 1,040 | 4.2 (T) | 3.3 (T) | 0.0042 |
| MW-9R | 25-Mar-20 | NA | 1.9 | 2.5 | NA |
| MW-9R | 6-Oct-22 | NA | 0.0096 | 0.0041 | 0.016 |
| MW-9R | 13-Dec-23 | 1,100 | 1.1 | 3.9 | <0.003 |
| MPE-5 | 13-Dec-23 | 2,910 | NA | NA | NA |

Notes:

<

NA

NE

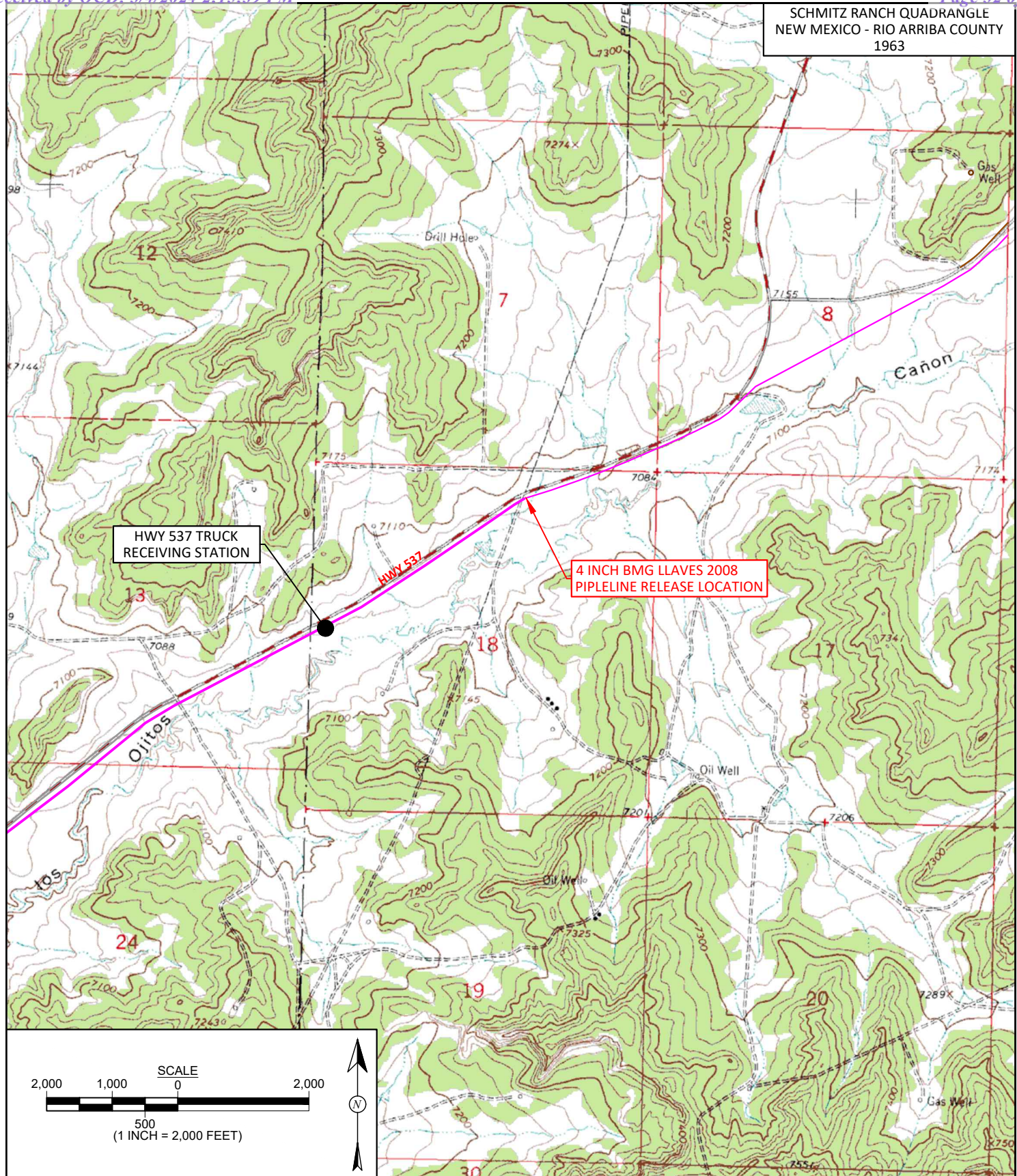
mg/L

(T)

Total

Bold where results are above WQCC standards.

Figures



DRAWN BY:
C. Lameman

DATE DRAWN:
March 3, 2017

REVISIONS BY:
C. Lameman

DATE REVISED:
January 9, 2024

CHECKED BY:
L. Cupps

DATE CHECKED:
January 9, 2024

APPROVED BY:
A. Todd

DATE APPROVED:
January 12, 2024

FIGURE 1

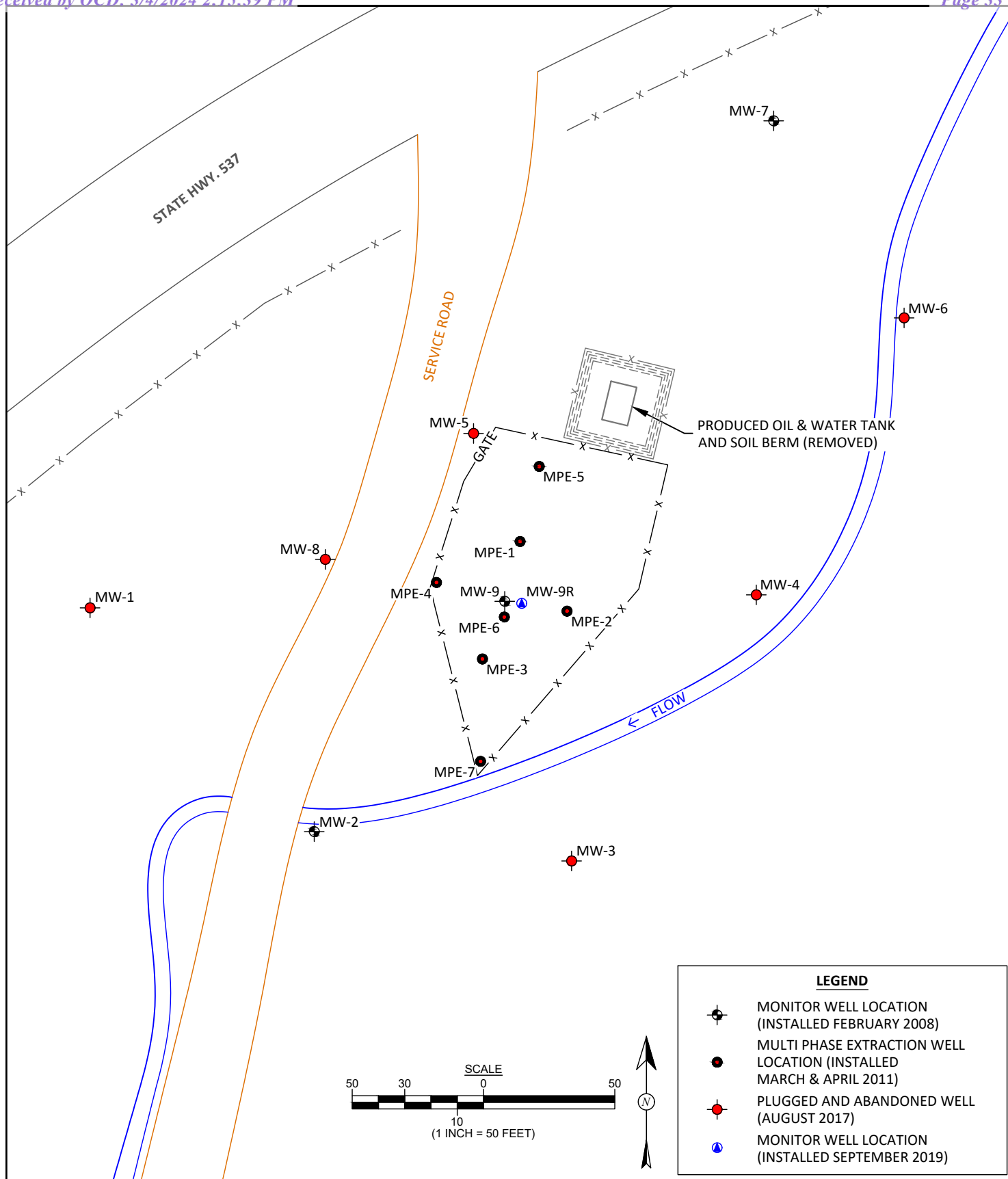
TOPOGRAPHIC SITE LOCATION MAP

BMG HIGHWAY 537
LLAVES 2008 PIPELINE OIL RELEASE
NW¼ NE¼, SECTION 18, T25N, R3W
RIO ARriba COUNTY, NEW MEXICO
N36.40357, W107.18422



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DRAWN BY:
C. Lameman

DATE DRAWN:
March 3, 2017

REVISIONS BY:
C. Lameman

DATE REVISED:
January 10, 2024

CHECKED BY:
L. Cupps

DATE CHECKED:
January 10, 2024

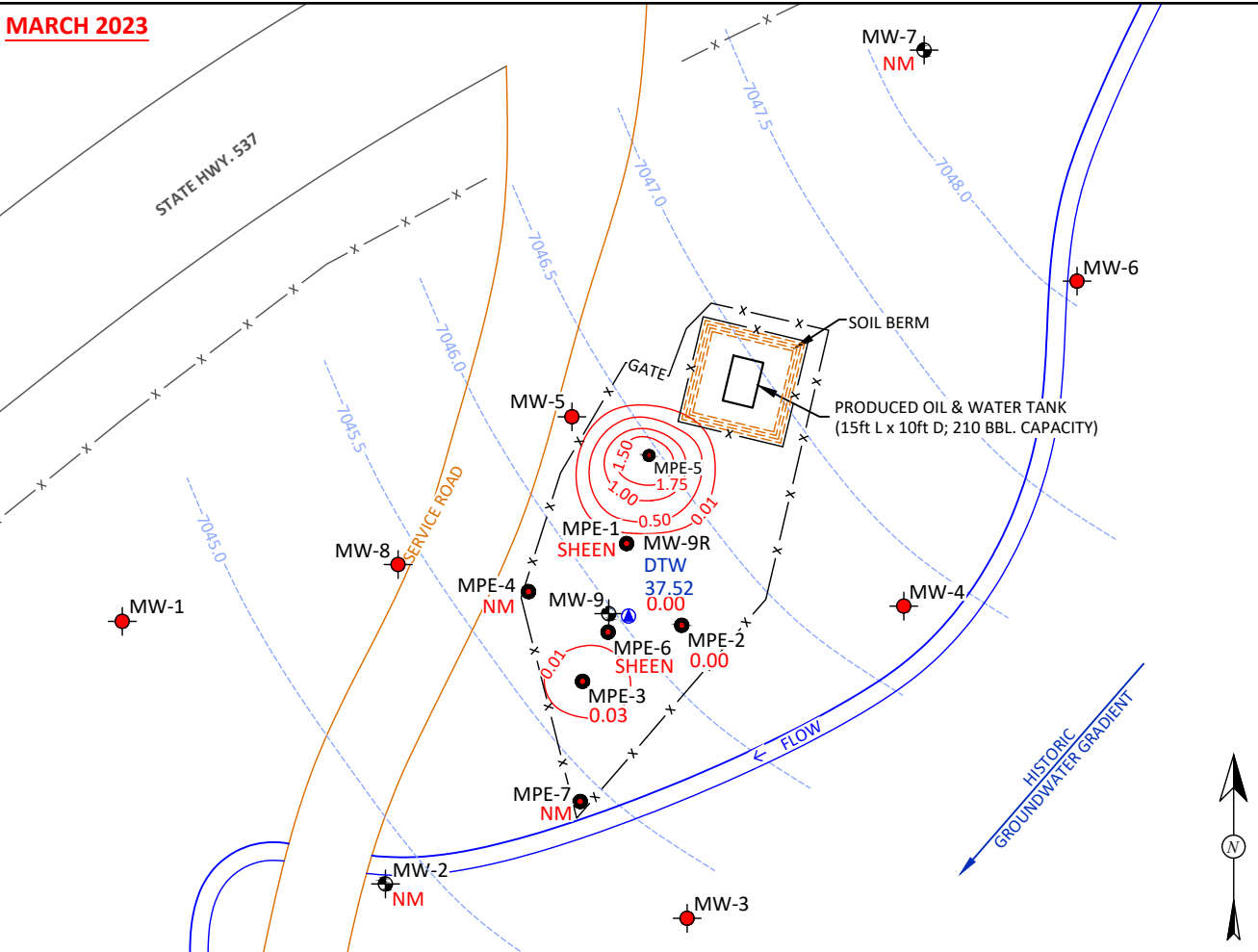
APPROVED BY:
A. Todd

DATE APPROVED:
January 12, 2024

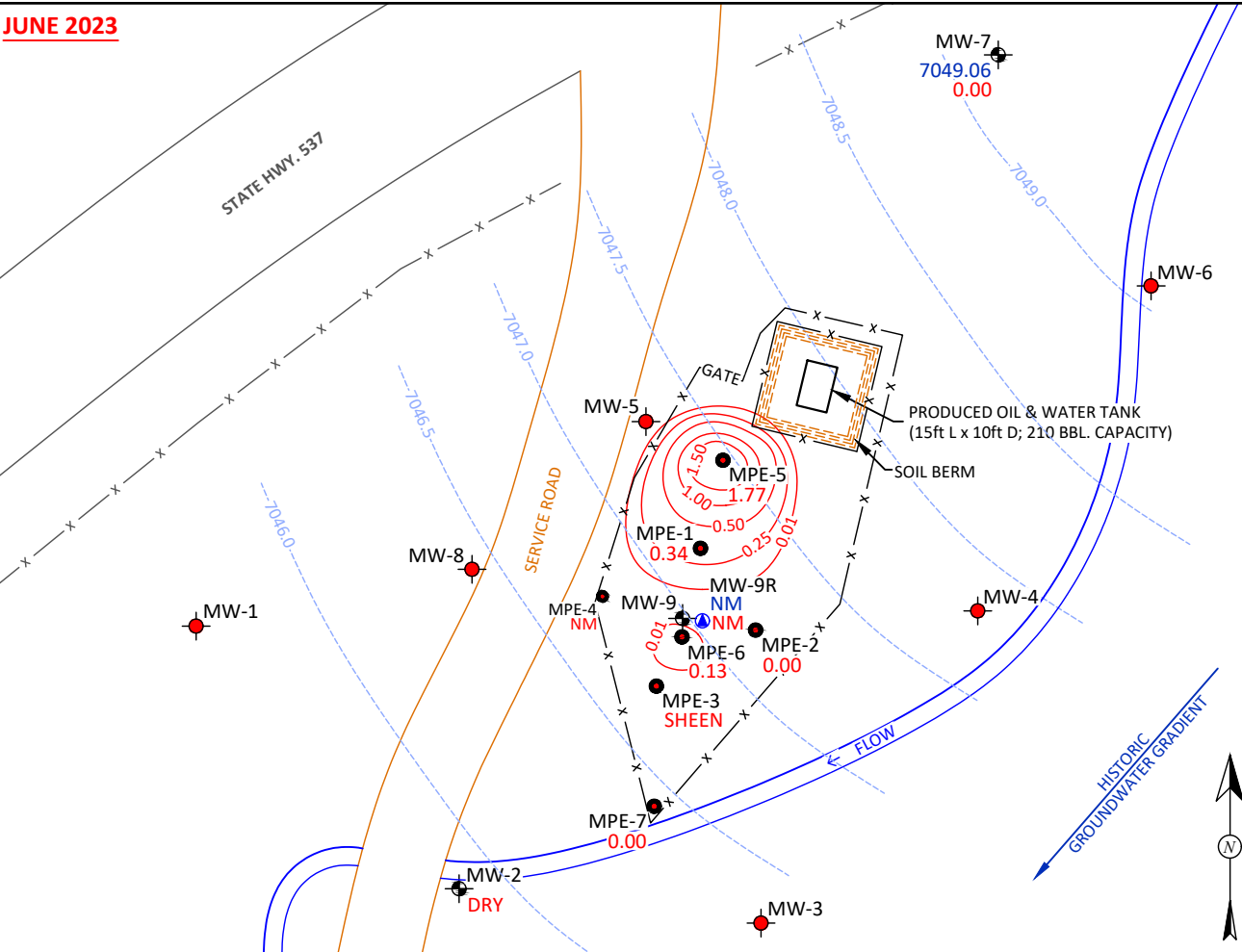
FIGURE 2

GENERAL SITE PLAN
BMG HIGHWAY 537
LLAVES 2008 PIPELINE OIL RELEASE
NW $\frac{1}{4}$ NE $\frac{1}{4}$, SECTION 18, T25N, R3W
RIO ARRIBA COUNTY, NEW MEXICO
N36.40357, W107.18422

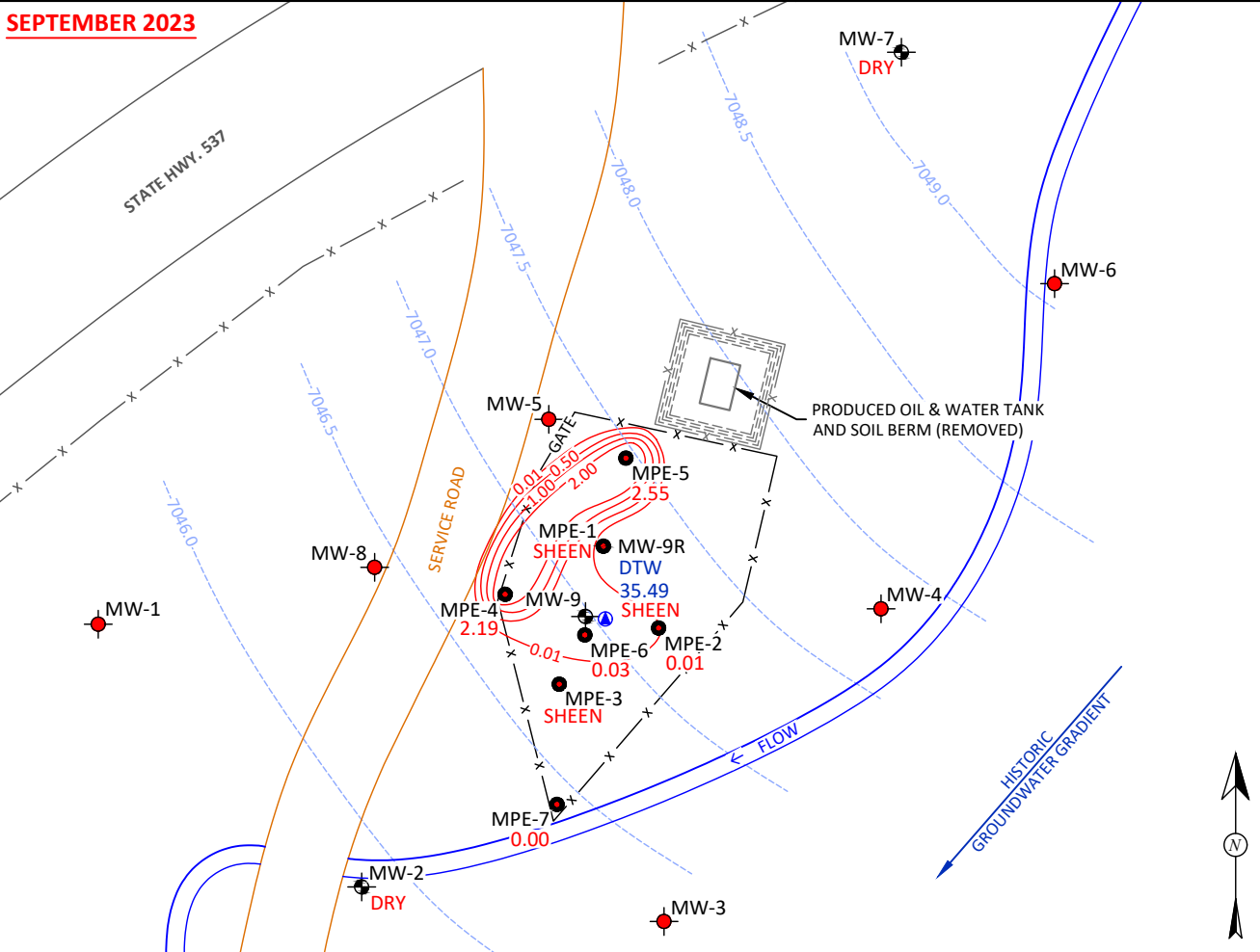
MARCH 2023



JUNE 2023



SEPTEMBER 2023



DECEMBER 2023

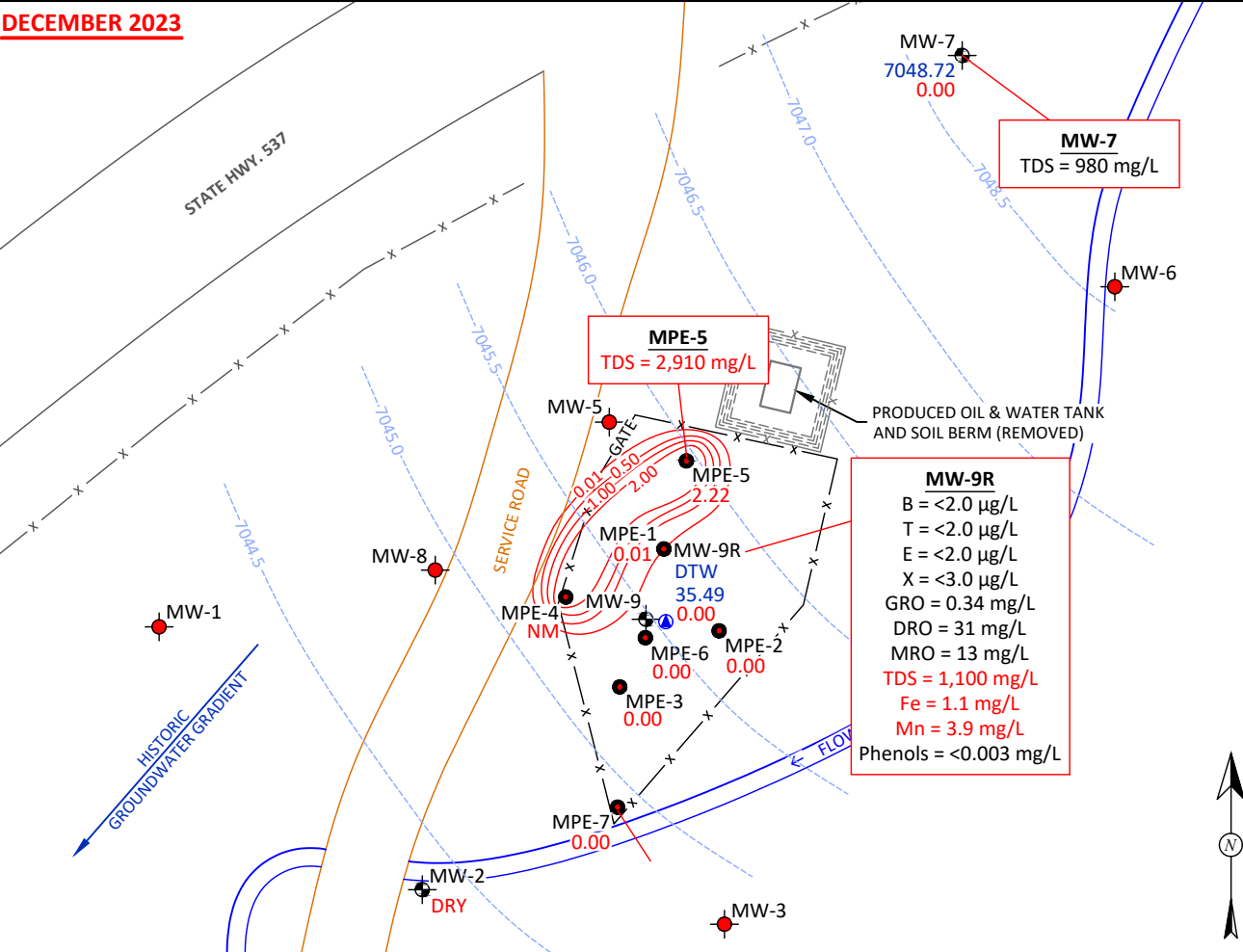


FIGURE 3

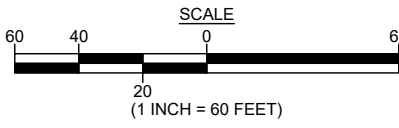
2023 GROUNDWATER ELEVATION CONTOURS, RESIDUAL NAPL CONTOURS, AND CONTAMINANT CONCENTRATIONS
BMG HIGHWAY 537
LLAVES 2008 PIPELINE OIL RELEASE
NW¼ NE¼, SECTION 18, T25N, R3W
RIO ARRIBA COUNTY, NEW MEXICO
N36.40357, W107.18422



| | |
|------------------------------------|---|
| DRAWN BY: C. Lameman | DATE DRAWN: June 16, 2022 |
| REVISIONS BY: C. Lameman | DATE REVISED: January 10, 2024 |
| CHECKED BY: L. Cupps | DATE CHECKED: January 10, 2024 |
| APPROVED BY: E. McNally | DATE APPROVED: January 10, 2024 |

- LEGEND**
- MONITOR WELL LOCATION (INSTALLED FEBRUARY 2008)
 - MULTI PHASE EXTRACTION WELL LOCATION (INSTALLED MARCH & APRIL 2011)
 - PLUGGED AND ABANDONED WELL (AUGUST 2017)
 - MONITOR WELL LOCATION (INSTALLED SEPTEMBER 2019)
 - GROUNDWATER ELEVATION IN FEET (AMSL)
 - INFERRED GROUNDWATER ELEVATION CONTOUR IN FEET (AMSL)
 - NAPL THICKNESS IN FEET
 - NAPL THICKNESS CONTOURS IN FEET
 - B BENZENE
 - T TOLUENE
 - E ETHYLBENZENE
 - X XYLENES, TOTAL
 - GRO GASOLINE RANGE ORGANICS
 - DRO DIESEL RANGE ORGANICS
 - MRO MOTOR OIL RANGE ORGANICS
 - TDS TOTAL DISSOLVED SOLIDS
 - Fe DISSOLVED IRON
 - Mn DISSOLVED MANGANESE
 - µg/L MICROGRAMS PER LITER (ppb)
 - mg/L MILLIGRAMS PER LITER (ppm)
 - < BELOW ANALYTICAL DETECTION LIMITS

NOTE: GROUNDWATER MEASUREMENTS AND SAMPLES WERE COLLECTED ON MARCH 15, JUNE 22, SEPTEMBER 13, AND DECEMBER 13, 2023. ALL SAMPLED WERE ANALYZED PER EPA METHOD 8021B OR 8260B, 8015, 2540C, 6010B AND SW-849 9067.



Appendix

NAPL Recovery Form

Animas Environmental Services

624 E. Comanche St., Farmington NM 87401

animasenvironmental.com (505) 564-2281

| Site: | | BMG | | | | Project No.: | | | |
|---|-------------------------|--------------------------------|---------------------------------|---------------------------------|------------------------------|-------------------------------|-------------------------------|----------------------------|---|
| Location: | | HWY 537 2008 Release | | | | Date: | | 03/15/23 | |
| Project: | | NAPL Recovery | | | | Arrival Time: | | 13:07 | |
| Sampling Technician: | | Jason Oyebi | | | | Air Temp: | | 50° light rain - cloudy | |
| Well ID | Start Time/ End Time | Initial Depth to NAPL (ft.) | Initial Depth to Water (ft.) | Initial NAPL Thickness (ft.) | Final Depth to NAPL (ft.) | Final Depth to Water (ft.) | Final NAPL Thickness (ft.) | Purged Volume (gal.) | Method / Notes / Observations |
| MPE-5 | 13:20 13:51 | 37.52 | 39.24 | ~1.75 | = 38.67 | 38.69 | .02 | ~.5 | Bailer - sock replaced |
| MPE-1 | 14:01 14:07 | 38.42 | 38.42 | 0 | 0 | 38.42 | 0 | ~.5 | Bailer - socks replaced |
| MPE-2 | 14:12 14:20 | 0 | 35.29 | 0 | 0 | 35.29 | 0 | 0 | No NAPL Detected No sock needed |
| MW-9R | 14:25 14:26 | 0 | 37.52 | 0 | 0 | 37.52 | 0 | 0 | No NAPL Detected No sock needed |
| MPE-6 | 14:30 14:37 | 0 | 35.65 | > .01 | 0 | 35.65 | 0 | 0 | NAPL found in sock - sock replaced - |
| MPE-3 | 14:40 14:46 | 36.03 | 36.00 | .03 | 36.03 | 36.00 | 7.01 | ~.5 | NAPL found in sock - sock replaced - |
| Purged NAPL and Water Storage, Transport, and Disposal Information: | | | | | | | | | |
| Total of 4 absorbent socks replaced @ site. | | | | | | | | | |
| 14:54 Depart site / heavy rainfall - 48° - Gate locked - | | | | | | | | | |

Released to Imaging: 4/24/2024 4:48:23 PM

NAPL Recovery Form

Animas Environmental Services

624 E. Comanche St., Farmington NM 87401

animasenvironmental.com (505) 564-2281

| Site: | | BMG | | | | Project No.: | | | |
|----------------------|---------------------|-----------------------------|------------------------------|------------------------------|---------------------------|----------------------------|----------------------------|----------------------|--|
| Location: | | HWY 537 2008 Release | | | | Date: | | 6-21-23 | |
| Project: | | NAPL Recovery | | | | Arrival Time: | | 13:15 | |
| Sampling Technician: | | | | | | Air Temp: | | | |
| Well ID | Start Time/End Time | Initial Depth to NAPL (ft.) | Initial Depth to Water (ft.) | Initial NAPL Thickness (ft.) | Final Depth to NAPL (ft.) | Final Depth to Water (ft.) | Final NAPL Thickness (ft.) | Purged Volume (gal.) | Method / Notes / Observations |
| 5 | 13:40 14:59 | 37.52 | 39.29 | 1.77 | 37.75 | 37.72 | .03 | 5 gallon | NAPL removed from sock sock placed into well Hotdry + S.G. |
| Well ID | Start Time/End Time | Initial Depth to NAPL (ft.) | Initial Depth to Water (ft.) | Initial NAPL Thickness (ft.) | Final Depth to NAPL (ft.) | Final Depth to Water (ft.) | Final NAPL Thickness (ft.) | Purged Volume (gal.) | Method / Notes / Observations |
| 1 | 15:04 15:31 | 38.09 | 38.43 | .34 | 42.72 | 42.72 | .01 | .75 | Sock replaced put into n.w. Hotdry + S.G. |
| Well ID | Start Time/End Time | Initial Depth to NAPL (ft.) | Initial Depth to Water (ft.) | Initial NAPL Thickness (ft.) | Final Depth to NAPL (ft.) | Final Depth to Water (ft.) | Final NAPL Thickness (ft.) | Purged Volume (gal.) | Method / Notes / Observations |
| 6 | 15:31 15:39 | 35.39 | 35.39 | .01 | 35.38 | 35.38 | .01 | .25 | Sock replaced Hotdry + S.G. |
| Well ID | Start Time/End Time | Initial Depth to NAPL (ft.) | Initial Depth to Water (ft.) | Initial NAPL Thickness (ft.) | Final Depth to NAPL (ft.) | Final Depth to Water (ft.) | Final NAPL Thickness (ft.) | Purged Volume (gal.) | Method / Notes / Observations |
| 3 | 15:41 16:23 | 35.16 | 35.32 | .16 | 35.04 | 35.09 | .05 | 2.5 | Sock replaced Hotdry + S.G. |
| Well ID | Start Time/End Time | Initial Depth to NAPL (ft.) | Initial Depth to Water (ft.) | Initial NAPL Thickness (ft.) | Final Depth to NAPL (ft.) | Final Depth to Water (ft.) | Final NAPL Thickness (ft.) | Purged Volume (gal.) | Method / Notes / Observations |
| | | | | | | | | | |
| Well ID | Start Time/End Time | Initial Depth to NAPL (ft.) | Initial Depth to Water (ft.) | Initial NAPL Thickness (ft.) | Final Depth to NAPL (ft.) | Final Depth to Water (ft.) | Final NAPL Thickness (ft.) | Purged Volume (gal.) | Method / Notes / Observations |
| | | | | | | | | | |

Purged NAPL and Water Storage, Transport, and Disposal Information:

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 2008 Release

Tech:

Project No.:

Date: 9-13-23

Time: 14:00

Form: 1 of 1

| Well ID | Time | Depth to NAPL (ft) | Depth to Water (ft) | NAPL Thickness (ft) | Notes / Observations |
|-----------------|-------|--------------------|---------------------|---------------------|--|
| MW-2 | 13:48 | — | — | — | DRY |
| MW-7 | 13:50 | — | — | — | DRY |
| MW-9R | 15:44 | 35.49 | 35.49 | 20.01 | Sheen? |
| MPE-1 | 16:22 | 39.04 | 39.04 | 20.01 | 2" Well Sheen in bailer |
| MPE-2 | 15:59 | 35.97 | 35.98 | 0.01 | 2" Well |
| MPE-3 | 14:41 | 34.78 | 34.81 | 0.03 | 2" Well |
| MPE-4 | 14:02 | 33.32 | — | 2.19 | 2" Well |
| MPE-5 | 17:08 | 38.87 | 36.32 | 2.55 | 2" Well |
| MPE-6 | 15:31 | 35.59 | 35.59 | 20.01 | 2" Well Sheen |
| MPE-7 | 13:58 | — | 33.91 | — | 2" Well |
| | | | | | |
| Waste NAPL Drum | — | — | — | — | Depth to Bottom of Drum = Diameter = 1.9 ft |

Source of the NAPL:

Time period NAPL has been collected from here:

[illegible]

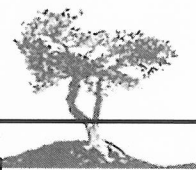
Wells measured with KECK water level or KECK interface tape and decontaminated between each well measurement.

WELL MONITORING AND MAINTENANCE FORM



| | | | |
|---|----------------------------------|-------------------------------------|----------------------------------|
| Site | BMG 2008 | Location | Hwy 537, Rio Arriba County, NM |
| Well ID | MPE-1 | Personnel | JO |
| Date | 9-13-23 | Start Time | 16:22 |
| FLUID LEVEL GAUGING: PERFORMED DURING THIS EVENT? YES / NO | | | |
| Initial Depth to Water (ft btoc): | 39.04 * | Initial Depth to Product (ft btoc): | 39.04 - Sheen |
| NAPL RECOVERY: PERFORMED DURING THIS EVENT? YES / NO | | | |
| Initial NAPL thickness (ft): | Sheen | NAPL Removed (gal): | 1 gallon mix w/ H ₂ O |
| Final Depth to Water (ft btoc): | 37.56 | Final Depth to NAPL (ft btoc): | 37.56 |
| Final NAPL thickness (ft): | Sheen | End Time: | 17:05 |
| SOCK REPLACEMENT: PERFORMED DURING THIS EVENT? YES / NO | | | |
| Is there a sock in this well? | Yes / No | Replaced | Yes / No |
| HOT WASH: PERFORMED DURING THIS EVENT? YES / NO | | | |
| Hot Wash Mixture: | 1 gal of Simple Green mixed with | 1 gal of hot water | |
| Hot Wash placed in well (gal): | 2 | Fluid Recovered from well (gal): | .25 |
| NOTES | | | |
| * Approximate Hot Wash added in - Noted Separation in bailer (see picture) Low water in well after. 16:50 re checked @ 17:00 No change | | | |

WELL MONITORING AND MAINTENANCE FORM

animas
environmental
services

| | | | |
|---------|-----------------|------------|---------------------------------------|
| Site | <u>BMG 2008</u> | Location | <u>Hwy 537, Rio Arriba County, NM</u> |
| Well ID | <u>MPE - 2</u> | Personnel | <u>Jo</u> |
| Date | <u>9-13-23</u> | Start Time | <u>15:59</u> |

FLUID LEVEL GAUGING: PERFORMED DURING THIS EVENT? ☒ YES / NO

| | | | |
|-----------------------------------|----------------|-------------------------------------|--------------|
| Initial Depth to Water (ft btoc): | <u>35.98 *</u> | Initial Depth to Product (ft btoc): | <u>35.97</u> |
|-----------------------------------|----------------|-------------------------------------|--------------|

NAPL RECOVERY: PERFORMED DURING THIS EVENT? ☒ YES / NO

| | | | |
|---------------------------------|--------------|--------------------------------|--------------------|
| Initial NAPL thickness (ft): | <u>0.01</u> | NAPL Removed (gal): | <u>.25 gallons</u> |
| Final Depth to Water (ft btoc): | <u>32.79</u> | Final Depth to NAPL (ft btoc): | <u>32.79</u> |
| Final NAPL thickness (ft): | <u>70.01</u> | End Time: | <u>16:20</u> |

SOCK REPLACEMENT: PERFORMED DURING THIS EVENT? ☒ YES / NO

| | | | | |
|-------------------------------|---|-------------------|---|--------------|
| Is there a sock in this well? | Yes <input checked="" type="radio"/> No <input type="radio"/> | <u>Sock Added</u> | Yes <input checked="" type="radio"/> No <input type="radio"/> | <u>16:17</u> |
|-------------------------------|---|-------------------|---|--------------|

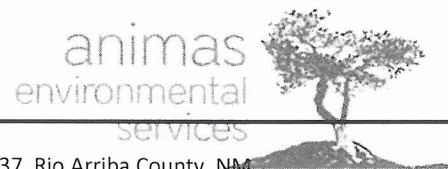
HOT WASH: PERFORMED DURING THIS EVENT? YES / ☒ NO

| | | | | |
|--------------------------------|------------|----------------------------------|------------|------------------|
| Hot Wash Mixture: | <u>N/A</u> | gal of Simple Green mixed with | <u>N/A</u> | gal of hot water |
| Hot Wash placed in well (gal): | <u>N/A</u> | Fluid Recovered from well (gal): | <u>N/A</u> | |

NOTES

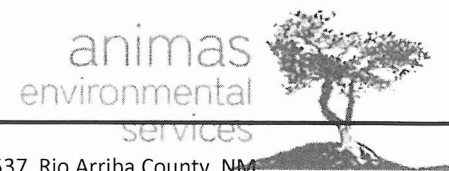
* Approximate
Thin NAPL Layer, removed by hand Bailer

WELL MONITORING AND MAINTENANCE FORM



| | | | |
|--|--|---|--------------------------------|
| Site | BMG 2008 | Location | Hwy 537, Rio Arriba County, NM |
| Well ID | MPE - 3 | Personnel | JD |
| Date | 9-13-23 | Start Time | 14:41 |
| FLUID LEVEL GAUGING: PERFORMED DURING THIS EVENT? <input checked="" type="checkbox"/> YES / NO | | | |
| Initial Depth to Water (ft btoc): | * 34.81 | Initial Depth to Product (ft btoc): | 34.79 |
| NAPL RECOVERY: PERFORMED DURING THIS EVENT? YES / NO | | | |
| Initial NAPL thickness (ft): | * .03 | NAPL Removed (gal): | 1 gallon - Blended 150 ft NAPL |
| Final Depth to Water (ft btoc): | 34.81 | Final Depth to NAPL (ft btoc): | 34.81 |
| Final NAPL thickness (ft): | ~ .01 | End Time: | 15:22 |
| SOCK REPLACEMENT: PERFORMED DURING THIS EVENT? <input checked="" type="checkbox"/> YES / NO | | | |
| Is there a sock in this well? | <input checked="" type="checkbox"/> Yes / No | Replaced - <input checked="" type="checkbox"/> Yes / No @ 15:18 | |
| HOT WASH: PERFORMED DURING THIS EVENT? <input checked="" type="checkbox"/> YES / NO | | | |
| Hot Wash Mixture: | 1 gal of Simple Green mixed with | 1 gal of hot water | |
| Hot Wash placed in well (gal): | 2 gallons | Fluid Recovered from well (gal): | 2.5 mix & NAPL - Blended - |
| NOTES | | | |
| * = Estimated due to interface probe problems - | | | |
| 38.71 TDB | | | |

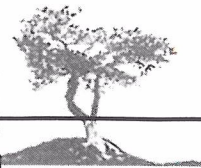
WELL MONITORING AND MAINTENANCE FORM



| | | | |
|--|-----------------|-------------------------------------|---------------------------------------|
| Site | <u>BMG 2008</u> | Location | <u>Hwy 537, Rio Arriba County, NM</u> |
| Well ID | <u>MPE-4</u> | Personnel | <u>JD</u> |
| Date | <u>9-13-23</u> | Start Time | <u>14:02</u> |
| FLUID LEVEL GAUGING: PERFORMED DURING THIS EVENT? YES / NO | | | |
| Initial Depth to Water (ft btoc): | <u>0</u> | Initial Depth to Product (ft btoc): | <u>33.32</u> |
| NAPL RECOVERY: PERFORMED DURING THIS EVENT? YES / NO | | | |
| Initial NAPL thickness (ft): | <u>2.19</u> | NAPL Removed (gal): | <u>0</u> |
| Final Depth to Water (ft btoc): | <u>0</u> | Final Depth to NAPL (ft btoc): | <u>33.32</u> |
| Final NAPL thickness (ft): | <u>2.19</u> | End Time: | <u>14:20</u> |
| SOCK REPLACEMENT: PERFORMED DURING THIS EVENT? YES / <u>NO</u> | | | |
| Is there a sock in this well? | Yes / <u>No</u> | Yes / <u>No</u> | |
| HOT WASH: PERFORMED DURING THIS EVENT? YES / <u>NO</u> | | | |
| Hot Wash Mixture: | <u>N/A</u> | gal of Simple Green mixed with | <u>N/A</u> gal of hot water |
| Hot Wash placed in well (gal): | <u>N/A</u> | Fluid Recovered from well (gal): | <u>N/A</u> |
| NOTES | | | |
| <p>Blockage prevents reaching NAPL layer with bailer 35.51 ft where tape stops</p> <p>NO H₂O detected @ this time —</p> | | | |

WELL MONITORING AND MAINTENANCE FORM

animas
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services



Site BMG 2008
Well ID MPE - 5
Date 9-13-23

Location Hwy 537, Rio Arriba County, NM
Personnel JO
Start Time 17:08

FLUID LEVEL GAUGING: PERFORMED DURING THIS EVENT? YES / NO

Initial Depth to Water (ft btoc): 36.32 * Initial Depth to Product (ft btoc): 38.87

NAPL RECOVERY: PERFORMED DURING THIS EVENT? YES / NO

Initial NAPL thickness (ft): 2.55 NAPL Removed (gal): 3.5 gallons
Final Depth to Water (ft btoc): ~~36.98~~ 36.98 Final Depth to NAPL (ft btoc): 36.91
Final NAPL thickness (ft): .03 End Time: 17:52

SOCK REPLACEMENT: PERFORMED DURING THIS EVENT? YES / NO

Is there a sock in this well? ☒ Yes / No Replaced ☒ Yes / No

HOT WASH: PERFORMED DURING THIS EVENT? YES / NO

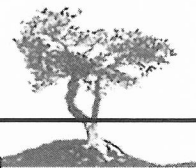
Hot Wash Mixture: 1 gal of Simple Green mixed with 1 gal of hot water
Hot Wash placed in well (gal): 2 Fluid Recovered from well (gal): 1 gallon mix

NOTES

* Approximate
Mix seems to stay in place and not dissipate into ground
large NAPL Amount (almost full barrel)
17:31

WELL MONITORING AND MAINTENANCE FORM

animas
environmental
services



| | | | |
|---|---|-------------------------------------|---------------------------------------|
| Site | <u>BMG 2008</u> | Location | <u>Hwy 537, Rio Arriba County, NM</u> |
| Well ID | <u>MPE-6</u> | Personnel | <u>JO</u> |
| Date | <u>9-13-23</u> | Start Time | <u>15:31</u> |
| FLUID LEVEL GAUGING: PERFORMED DURING THIS EVENT? | | <u>YES</u> / NO | |
| Initial Depth to Water (ft btoc): | <u>35.59 *</u> | Initial Depth to Product (ft btoc): | <u>35.59 *</u> |
| NAPL RECOVERY: PERFORMED DURING THIS EVENT? | | YES / <u>NO</u> | |
| Initial NAPL thickness (ft): | <u>70.01</u> | NAPL Removed (gal): | <u>N/A</u> |
| Final Depth to Water (ft btoc): | <u>35.59</u> | Final Depth to NAPL (ft btoc): | <u>35.59</u> |
| Final NAPL thickness (ft): | <u>70.01</u> | End Time: | <u>15:43</u> |
| SOCK REPLACEMENT: PERFORMED DURING THIS EVENT? | | <u>YES</u> / NO | |
| Is there a sock in this well? | <u>Yes</u> / No | <u>Replaced</u> | <u>Yes</u> / No |
| HOT WASH: PERFORMED DURING THIS EVENT? | | YES / <u>NO</u> | |
| Hot Wash Mixture: | <u>N/A</u> gal of Simple Green mixed with | <u>N/A</u> gal of hot water | |
| Hot Wash placed in well (gal): | <u>N/A</u> | Fluid Recovered from well (gal): | <u>N/A</u> |
| NOTES | | | |
| * Estimated | | | |
| Sock is working to absorb NAPL | | | |

WELL MONITORING AND MAINTENANCE FORM



| | | | |
|---|---|-------------------------------------|---|
| Site | BMG 2008 | Location | Hwy 537, Rio Arriba County, NM |
| Well ID | MW - 9R | Personnel | JO |
| Date | 9-13-23 | Start Time | 15:44 |
| FLUID LEVEL GAUGING: PERFORMED DURING THIS EVENT? <input checked="" type="checkbox"/> YES / <input type="checkbox"/> NO | | | |
| Initial Depth to Water (ft btoc): | 35.49 * | Initial Depth to Product (ft btoc): | 35.49 / Sheen ? |
| NAPL RECOVERY: PERFORMED DURING THIS EVENT? YES / <input checked="" type="checkbox"/> NO | | | |
| Initial NAPL thickness (ft): | slight sheen | NAPL Removed (gal): | N/A |
| Final Depth to Water (ft btoc): | 35.49 | Final Depth to NAPL (ft btoc): | 35.49 |
| Final NAPL thickness (ft): | Sheen ? | End Time: | 15:56 |
| SOCK REPLACEMENT: PERFORMED DURING THIS EVENT? YES / <input checked="" type="checkbox"/> NO | | | |
| Is there a sock in this well? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Replaced | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| HOT WASH: PERFORMED DURING THIS EVENT? YES / <input type="checkbox"/> NO | | | |
| Hot Wash Mixture: | N/A | gal of Simple Green mixed with | N/A |
| Hot Wash placed in well (gal): | N/A | Fluid Recovered from well (gal): | N/A |
| NOTES | | | |
| <p>* Approximate</p> <p>Possibly Sheen from Bucket & Not well.</p> <p>No odor or coloration of H₂O / was clear -</p> | | | |

WELL MONITORING AND MAINTENANCE FORM



| | | | |
|--|---|-------------------------------------|---------------------------------------|
| Site | <u>BMG 2008</u> | Location | <u>Hwy 537, Rio Arriba County, NM</u> |
| Well ID | <u>IMPE-1</u> | Personnel | <u>JD</u> |
| Date | <u>12-13-23</u> | Start Time | <u>16:08</u> |
| FLUID LEVEL GAUGING: PERFORMED DURING THIS EVENT? <u>YES</u> / NO | | | |
| Initial Depth to Water (ft btoc): | <u>37.68</u> | Initial Depth to Product (ft btoc): | <u>37.67</u> |
| NAPL RECOVERY: PERFORMED DURING THIS EVENT? YES / <u>NO</u> | | | |
| Initial NAPL thickness (ft): | <u>.01</u> | NAPL Removed (gal): | <u>0</u> |
| Final Depth to Water (ft btoc): | <u>37.68</u> | Final Depth to NAPL (ft btoc): | <u>37.67</u> |
| Final NAPL thickness (ft): | <u>.01</u> | End Time: | <u>16:15</u> |
| SOCK REPLACEMENT: PERFORMED DURING THIS EVENT? <u>YES</u> / NO | | | |
| Is there a sock in this well? | <u>Yes</u> / No | | <u>Yes</u> / No |
| HOT WASH: PERFORMED DURING THIS EVENT? YES / <u>NO</u> | | | |
| Hot Wash Mixture: | _____ gal of Simple Green mixed with _____ gal of hot water | | |
| Hot Wash placed in well (gal): | _____ | Fluid Recovered from well (gal): | _____ |
| NOTES | | | |
| <u>Sock absorbs most NAPL -</u> | | | |

WELL MONITORING AND MAINTENANCE FORM



| | | | |
|---|---|-------------------------------------|--------------------------------|
| Site | BMG 2008 | Location | Hwy 537, Rio Arriba County, NM |
| Well ID | IMPE-2 | Personnel | So |
| Date | 12-13-23 | Start Time | 16:18 |
| FLUID LEVEL GAUGING: PERFORMED DURING THIS EVENT? YES / NO | | | |
| Initial Depth to Water (ft btoc): | 35.51 | Initial Depth to Product (ft btoc): | Possible Sheen |
| NAPL RECOVERY: PERFORMED DURING THIS EVENT? YES / NO | | | |
| Initial NAPL thickness (ft): | sheen | NAPL Removed (gal): | 0 |
| Final Depth to Water (ft btoc): | 35.51 | Final Depth to NAPL (ft btoc): | 35.51 (sheen) |
| Final NAPL thickness (ft): | 2.01 | End Time: | 16:25 |
| SOCK REPLACEMENT: PERFORMED DURING THIS EVENT? YES / NO | | | |
| Is there a sock in this well? | Yes / No | Yes / No | |
| HOT WASH: PERFORMED DURING THIS EVENT? YES / NO | | | |
| Hot Wash Mixture: | _____ gal of Simple Green mixed with _____ gal of hot water | | |
| Hot Wash placed in well (gal): | _____ | Fluid Recovered from well (gal): | _____ |
| NOTES | | | |
| No NAPL Detected - Sock changed - | | | |

WELL MONITORING AND MAINTENANCE FORM



| | | | |
|--|--------------------------------------|-------------------------------------|---------------------------------------|
| Site | <u>BMG 2008</u> | Location | <u>Hwy 537, Rio Arriba County, NM</u> |
| Well ID | <u>MPE-3</u> | Personnel | <u>JB</u> |
| Date | <u>12-13-23</u> | Start Time | <u>17:10</u> |
| FLUID LEVEL GAUGING: PERFORMED DURING THIS EVENT? <u>YES</u> / NO | | | |
| Initial Depth to Water (ft btoc): | <u>35.91</u> | Initial Depth to Product (ft btoc): | <u>Shcen</u> |
| NAPL RECOVERY: PERFORMED DURING THIS EVENT? YES / <u>NO</u> | | | |
| Initial NAPL thickness (ft): | <u>Shcen</u> | NAPL Removed (gal): | <u>0</u> |
| Final Depth to Water (ft btoc): | <u>35.91</u> | Final Depth to NAPL (ft btoc): | <u>Shcen</u> |
| Final NAPL thickness (ft): | <u>Shcen</u> | End Time: | <u>17:13</u> |
| SOCK REPLACEMENT: PERFORMED DURING THIS EVENT? <u>YES</u> / NO | | | |
| Is there a sock in this well? | <u>Yes</u> / No | Yes / No | |
| HOT WASH: PERFORMED DURING THIS EVENT? YES / <u>NO</u> | | | |
| Hot Wash Mixture: | _____ gal of Simple Green mixed with | _____ gal of hot water | |
| Hot Wash placed in well (gal): | _____ | Fluid Recovered from well (gal): | _____ |
| NOTES | | | |
| <u>No large NAPL accumulation noted.</u> | | | |

WELL MONITORING AND MAINTENANCE FORM



| | | | |
|---|--------------------------------|-------------------------------------|--------------------------------|
| Site | BMG 2008 | Location | Hwy 537, Rio Arriba County, NM |
| Well ID | MPE-4 | Personnel | JO |
| Date | 12-13-23 | Start Time | 17:08 |
| FLUID LEVEL GAUGING: PERFORMED DURING THIS EVENT? YES / NO | | | |
| Initial Depth to Water (ft btoc): | 0 | Initial Depth to Product (ft btoc): | 0 |
| NAPL RECOVERY: PERFORMED DURING THIS EVENT? YES / NO | | | |
| Initial NAPL thickness (ft): | 0 | NAPL Removed (gal): | 0 |
| Final Depth to Water (ft btoc): | 0 | Final Depth to NAPL (ft btoc): | 0 |
| Final NAPL thickness (ft): | 0 | End Time: | 17:08 |
| SOCK REPLACEMENT: PERFORMED DURING THIS EVENT? YES / NO | | | |
| Is there a sock in this well? | Yes / No | Yes / No | |
| HOT WASH: PERFORMED DURING THIS EVENT? YES / NO | | | |
| Hot Wash Mixture: | gal of Simple Green mixed with | gal of hot water | |
| Hot Wash placed in well (gal): | | Fluid Recovered from well (gal): | |
| NOTES | | | |
| Blockage @ 35.28 | | | |

WELL MONITORING AND MAINTENANCE FORM



| | | | |
|--|---|-------------------------------------|--------------------------------|
| Site | BMG 2008 | Location | Hwy 537, Rio Arriba County, NM |
| Well ID | MW-MPE-5 | Personnel | JO |
| Date | 12-13-23 | Start Time | 15:10 |
| FLUID LEVEL GAUGING: PERFORMED DURING THIS EVENT? YES / NO | | | |
| Initial Depth to Water (ft btoc): | 39.98 | Initial Depth to Product (ft btoc): | 37.76 |
| NAPL RECOVERY: PERFORMED DURING THIS EVENT? YES / NO | | | |
| Initial NAPL thickness (ft): | 2.22 | NAPL Removed (gal): | .343 |
| Final Depth to Water (ft btoc): | 38.25 | Final Depth to NAPL (ft btoc): | 38.15 |
| Final NAPL thickness (ft): | .10 | End Time: | 15:59 |
| SOCK REPLACEMENT: PERFORMED DURING THIS EVENT? YES / NO | | | |
| Is there a sock in this well? | Yes / No | Yes / No | |
| HOT WASH: PERFORMED DURING THIS EVENT? YES / NO | | | |
| Hot Wash Mixture: | gal of Simple Green mixed with gal of hot water | | |
| Hot Wash placed in well (gal): | Fluid Recovered from well (gal): | | |
| NOTES | | | |
| <p>NAPL Collected -</p> <p>450 mL @ 15:20 200 mL 15:55</p> <p>350 mL @ 15:39</p> <p>300 mL @ 15:45 @ 25 mL Sample collected @ 16:01</p> | | | |

WELL MONITORING AND MAINTENANCE FORM



| | | | |
|--|---|-------------------------------------|---------------------------------------|
| Site | <u>BMG 2008</u> | Location | <u>Hwy 537, Rio Arriba County, NM</u> |
| Well ID | <u>MPE-6</u> | Personnel | <u>JS</u> |
| Date | <u>12-13-23</u> | Start Time | <u>16:59</u> |
| FLUID LEVEL GAUGING: PERFORMED DURING THIS EVENT? <u>YES</u> / NO | | | |
| Initial Depth to Water (ft btoc): | <u>36.00</u> | Initial Depth to Product (ft btoc): | <u>Shoen ?</u> |
| NAPL RECOVERY: PERFORMED DURING THIS EVENT? YES / <u>NO</u> | | | |
| Initial NAPL thickness (ft): | <u>Shoen</u> | NAPL Removed (gal): | <u>0</u> |
| Final Depth to Water (ft btoc): | <u>36.00</u> | Final Depth to NAPL (ft btoc): | <u>36.00</u> |
| Final NAPL thickness (ft): | <u>Shoen</u> | End Time: | <u>17:05</u> |
| SOCK REPLACEMENT: PERFORMED DURING THIS EVENT? <u>YES</u> / NO | | | |
| Is there a sock in this well? | <u>Yes</u> / No | <u>Yes</u> / No | |
| HOT WASH: PERFORMED DURING THIS EVENT? YES / <u>NO</u> | | | |
| Hot Wash Mixture: | _____ gal of Simple Green mixed with _____ gal of hot water | | |
| Hot Wash placed in well (gal): | _____ | Fluid Recovered from well (gal): | _____ |
| NOTES | | | |
| <u>Shoen only detected in MW-</u> | | | |

WELL MONITORING AND MAINTENANCE FORM



| | | | |
|---|---|-------------------------------------|--------------------------------|
| Site | BMG 2008 | Location | Hwy 537, Rio Arriba County, NM |
| Well ID | IMPE-7 | Personnel | JO |
| Date | 12-13-23 | Start Time | 16:56 |
| FLUID LEVEL GAUGING: PERFORMED DURING THIS EVENT? YES / NO | | | |
| Initial Depth to Water (ft btoc): | 33.64 | Initial Depth to Product (ft btoc): | N/A |
| NAPL RECOVERY: PERFORMED DURING THIS EVENT? YES / NO | | | |
| Initial NAPL thickness (ft): | 0 | NAPL Removed (gal): | 0 |
| Final Depth to Water (ft btoc): | 33.64 | Final Depth to NAPL (ft btoc): | 0 |
| Final NAPL thickness (ft): | 0 | End Time: | 16:56 |
| SOCK REPLACEMENT: PERFORMED DURING THIS EVENT? YES / NO | | | |
| Is there a sock in this well? | Yes / No | Yes / No | |
| HOT WASH: PERFORMED DURING THIS EVENT? YES / NO | | | |
| Hot Wash Mixture: | gal of Simple Green mixed with gal of hot water | | |
| Hot Wash placed in well (gal): | | Fluid Recovered from well (gal): | |
| NOTES | | | |
| Gauged only | | | |

WELL MONITORING AND MAINTENANCE FORM



| | | | |
|--|---|-------------------------------------|---------------------------------------|
| Site | <u>BMG 2008</u> | Location | <u>Hwy 537, Rio Arriba County, NM</u> |
| Well ID | <u>MW-9R</u> | Personnel | <u>JS</u> |
| Date | <u>12-13-23</u> | Start Time | <u>16:25</u> |
| FLUID LEVEL GAUGING: PERFORMED DURING THIS EVENT? <u>YES</u> / NO | | | |
| Initial Depth to Water (ft btoc): | <u>35.86</u> | Initial Depth to Product (ft btoc): | <u>seen noted</u> |
| NAPL RECOVERY: PERFORMED DURING THIS EVENT? YES / <u>NO</u> | | | |
| Initial NAPL thickness (ft): | <u>0</u> | NAPL Removed (gal): | <u>0</u> |
| Final Depth to Water (ft btoc): | <u>39.48</u> | Final Depth to NAPL (ft btoc): | <u>seen developed</u> |
| Final NAPL thickness (ft): | <u>seen</u> | End Time: | <u>16:51</u> |
| SOCK REPLACEMENT: PERFORMED DURING THIS EVENT? YES / <u>NO</u> | | | |
| Is there a sock in this well? | Yes / <u>No</u> | Yes / No | |
| HOT WASH: PERFORMED DURING THIS EVENT? YES / NO | | | |
| Hot Wash Mixture: | _____ gal of Simple Green mixed with _____ gal of hot water | | |
| Hot Wash placed in well (gal): | _____ | Fluid Recovered from well (gal): | _____ |
| NOTES | | | |
| <u>40.91 TDB</u> | | | |
| <u>Calculated purge - 2.5 gallons</u> | | | |
| <u>Samples Collected - 16:33</u> | | | |



Environment Testing

Eurofins Environment Testing South
Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

January 05, 2024

Elizabeth McNally

Animas Environmental Services

624 E. Comanche

Farmington, NM 87401

TEL: (505) 564-2281

FAX:

RE: BMG Hwy 537 2008 Release

OrderNo.: 2312925

Dear Elizabeth McNally:

Eurofins Environment Testing South Central, LLC received 4 sample(s) on 12/15/2023 for the analyses presented in the following report.

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

Please do not hesitate to contact Eurofins Albuquerque 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", with a stylized flourish at the end.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2312925
Date Reported: 1/5/2024

CLIENT: Animas Environmental Services Client Sample ID: MW-7
Project: BMG Hwy 537 2008 Release Collection Date: 12/13/2023 2:35:00 PM
Lab ID: 2312925-001 Matrix: AQUEOUS Received Date: 12/15/2023 6:50:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|-------------------------------------|--------|-----|------|-------|----|-----------------------|-------------|
| SM2540C MOD: TOTAL DISSOLVED SOLIDS | | | | | | | Analyst: KS |
| Total Dissolved Solids | 980 | 500 | *D | mg/L | 1 | 12/21/2023 7:22:00 PM | 79518 |

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2312925
Date Reported: 1/5/2024

CLIENT: Animas Environmental Services Client Sample ID: MPE-5
Project: BMG Hwy 537 2008 Release Collection Date: 12/13/2023 4:01:00 PM
Lab ID: 2312925-002 Matrix: AQUEOUS Received Date: 12/15/2023 6:50:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|-------------------------------------|--------|-----|------|-------|----|-----------------------|-------------|
| SM2540C MOD: TOTAL DISSOLVED SOLIDS | | | | | | | Analyst: KS |
| Total Dissolved Solids | 2910 | 500 | *D | mg/L | 1 | 12/21/2023 7:22:00 PM | 79518 |

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

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

Analytical Report

Lab Order 2312925

Date Reported: 1/5/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: MW-9R

Project: BMG Hwy 537 2008 Release

Collection Date: 12/13/2023 4:33:00 PM

Lab ID: 2312925-003

Matrix: AQUEOUS

Received Date: 12/15/2023 6:50:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|------------------------|---------------------|
| SM2540C MOD: TOTAL DISSOLVED SOLIDS | | | | | | | Analyst: KS |
| Total Dissolved Solids | 1100 | 500 | *D | mg/L | 1 | 12/21/2023 7:22:00 PM | 79518 |
| EPA METHOD 6010B: DISSOLVED METALS | | | | | | | Analyst: VP |
| Iron | 1.1 | 0.10 | | mg/L | 5 | 12/18/2023 10:26:58 AM | A101908 |
| Manganese | 3.9 | 0.020 | | mg/L | 10 | 12/18/2023 10:36:22 AM | A101908 |
| EPA METHOD 8015M/D: DIESEL RANGE | | | | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | 31 | 1.0 | | mg/L | 1 | 12/18/2023 11:31:17 PM | 79449 |
| Motor Oil Range Organics (MRO) | 13 | 5.0 | | mg/L | 1 | 12/18/2023 11:31:17 PM | 79449 |
| Surr: DNOP | 106 | 54.5-177 | | %Rec | 1 | 12/18/2023 11:31:17 PM | 79449 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | 0.34 | 0.10 | D | mg/L | 2 | 12/19/2023 5:48:04 AM | GW1019 |
| Surr: BFB | 193 | 15-270 | D | %Rec | 2 | 12/19/2023 5:48:04 AM | GW1019 |
| EPA METHOD 8260B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 2.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| Toluene | ND | 2.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| Ethylbenzene | ND | 2.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| Methyl tert-butyl ether (MTBE) | ND | 2.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| 1,2,4-Trimethylbenzene | ND | 2.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| 1,3,5-Trimethylbenzene | ND | 2.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| 1,2-Dichloroethane (EDC) | ND | 2.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| 1,2-Dibromoethane (EDB) | ND | 2.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| Naphthalene | ND | 4.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| 1-Methylnaphthalene | ND | 8.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| 2-Methylnaphthalene | ND | 8.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| Acetone | ND | 20 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| Bromobenzene | ND | 2.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| Bromodichloromethane | ND | 2.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| Bromoform | ND | 2.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| Bromomethane | ND | 6.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| 2-Butanone | ND | 20 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| Carbon disulfide | ND | 20 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| Carbon Tetrachloride | ND | 2.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| Chlorobenzene | ND | 2.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| Chloroethane | ND | 4.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| Chloroform | ND | 2.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| Chloromethane | ND | 6.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| 2-Chlorotoluene | ND | 2.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| 4-Chlorotoluene | ND | 2.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |

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

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

Analytical Report

Lab Order 2312925

Date Reported: 1/5/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: MW-9R

Project: BMG Hwy 537 2008 Release

Collection Date: 12/13/2023 4:33:00 PM

Lab ID: 2312925-003

Matrix: AQUEOUS

Received Date: 12/15/2023 6:50:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|------------------------------------|--------|-----|------|-------|----|-----------------------|--------------|
| EPA METHOD 8260B: VOLATILES | | | | | | | Analyst: RAA |
| cis-1,2-DCE | ND | 2.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| cis-1,3-Dichloropropene | ND | 2.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| 1,2-Dibromo-3-chloropropane | ND | 4.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| Dibromochloromethane | ND | 2.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| Dibromomethane | ND | 2.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| 1,2-Dichlorobenzene | ND | 2.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| 1,3-Dichlorobenzene | ND | 2.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| 1,4-Dichlorobenzene | ND | 2.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| Dichlorodifluoromethane | ND | 2.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| 1,1-Dichloroethane | ND | 2.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| 1,1-Dichloroethene | ND | 2.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| 1,2-Dichloropropane | ND | 2.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| 1,3-Dichloropropane | ND | 2.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| 2,2-Dichloropropane | ND | 4.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| 1,1-Dichloropropene | ND | 2.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| Hexachlorobutadiene | ND | 2.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| 2-Hexanone | ND | 20 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| Isopropylbenzene | ND | 2.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| 4-Isopropyltoluene | ND | 2.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| 4-Methyl-2-pentanone | ND | 20 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| Methylene Chloride | ND | 6.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| n-Butylbenzene | ND | 6.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| n-Propylbenzene | ND | 2.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| sec-Butylbenzene | ND | 2.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| Styrene | ND | 2.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| tert-Butylbenzene | ND | 2.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| 1,1,1,2-Tetrachloroethane | ND | 2.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| 1,1,2,2-Tetrachloroethane | ND | 4.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| Tetrachloroethene (PCE) | ND | 2.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| trans-1,2-DCE | ND | 2.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| trans-1,3-Dichloropropene | ND | 2.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| 1,2,3-Trichlorobenzene | ND | 2.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| 1,2,4-Trichlorobenzene | ND | 2.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| 1,1,1-Trichloroethane | ND | 2.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| 1,1,2-Trichloroethane | ND | 2.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| Trichloroethene (TCE) | ND | 2.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| Trichlorofluoromethane | ND | 2.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| 1,2,3-Trichloropropane | ND | 4.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| Vinyl chloride | ND | 2.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |

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

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

Analytical Report

Lab Order 2312925

Date Reported: 1/5/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: MW-9R

Project: BMG Hwy 537 2008 Release

Collection Date: 12/13/2023 4:33:00 PM

Lab ID: 2312925-003

Matrix: AQUEOUS

Received Date: 12/15/2023 6:50:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|---------------------------------------|--------|--------|------|-------|----|-----------------------|--------------|
| EPA METHOD 8260B: VOLATILES | | | | | | | Analyst: RAA |
| Xylenes, Total | ND | 3.0 | | µg/L | 2 | 12/24/2023 9:58:00 PM | R102066 |
| Surr: 1,2-Dichloroethane-d4 | 89.7 | 70-130 | | %Rec | 2 | 12/24/2023 9:58:00 PM | R102066 |
| Surr: 4-Bromofluorobenzene | 104 | 70-130 | | %Rec | 2 | 12/24/2023 9:58:00 PM | R102066 |
| Surr: Dibromofluoromethane | 99.4 | 70-130 | | %Rec | 2 | 12/24/2023 9:58:00 PM | R102066 |
| Surr: Toluene-d8 | 93.5 | 70-130 | | %Rec | 2 | 12/24/2023 9:58:00 PM | R102066 |
| TOTAL PHENOLICS BY SW-846 9067 | | | | | | | Analyst: JPM |
| Phenolics | ND | 3.0 | | µg/L | 1 | 12/29/2023 2:32:00 PM | 79667 |

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

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

Analytical Report

Lab Order 2312925

Date Reported: 1/5/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Trip Blank

Project: BMG Hwy 537 2008 Release

Collection Date:

Lab ID: 2312925-004

Matrix: TRIP BLANK

Received Date: 12/15/2023 6:50:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|------------------------------------|--------|-----|------|-------|----|------------------------|--------------|
| EPA METHOD 8260B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 1.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| Toluene | ND | 1.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| Ethylbenzene | ND | 1.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| Methyl tert-butyl ether (MTBE) | ND | 1.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| 1,2,4-Trimethylbenzene | ND | 1.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| 1,3,5-Trimethylbenzene | ND | 1.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| 1,2-Dichloroethane (EDC) | ND | 1.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| Naphthalene | ND | 2.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| 1-Methylnaphthalene | ND | 4.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| 2-Methylnaphthalene | ND | 4.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| Acetone | ND | 10 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| Bromobenzene | ND | 1.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| Bromodichloromethane | ND | 1.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| Bromoform | ND | 1.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| Bromomethane | ND | 3.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| 2-Butanone | ND | 10 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| Carbon disulfide | ND | 10 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| Carbon Tetrachloride | ND | 1.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| Chlorobenzene | ND | 1.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| Chloroethane | ND | 2.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| Chloroform | ND | 1.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| Chloromethane | ND | 3.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| 2-Chlorotoluene | ND | 1.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| 4-Chlorotoluene | ND | 1.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| cis-1,2-DCE | ND | 1.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| cis-1,3-Dichloropropene | ND | 1.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| 1,2-Dibromo-3-chloropropane | ND | 2.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| Dibromochloromethane | ND | 1.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| Dibromomethane | ND | 1.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| 1,2-Dichlorobenzene | ND | 1.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| 1,3-Dichlorobenzene | ND | 1.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| 1,4-Dichlorobenzene | ND | 1.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| Dichlorodifluoromethane | ND | 1.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| 1,1-Dichloroethane | ND | 1.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| 1,1-Dichloroethene | ND | 1.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| 1,2-Dichloropropane | ND | 1.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| 1,3-Dichloropropane | ND | 1.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| 2,2-Dichloropropane | ND | 2.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |

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

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

Analytical Report

Lab Order 2312925

Date Reported: 1/5/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Trip Blank

Project: BMG Hwy 537 2008 Release

Collection Date:

Lab ID: 2312925-004

Matrix: TRIP BLANK

Received Date: 12/15/2023 6:50:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|------------------------------------|--------|--------|------|-------|----|------------------------|--------------|
| EPA METHOD 8260B: VOLATILES | | | | | | | Analyst: RAA |
| 1,1-Dichloropropene | ND | 1.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| Hexachlorobutadiene | ND | 1.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| 2-Hexanone | ND | 10 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| Isopropylbenzene | ND | 1.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| 4-Isopropyltoluene | ND | 1.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| 4-Methyl-2-pentanone | ND | 10 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| Methylene Chloride | ND | 3.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| n-Butylbenzene | ND | 3.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| n-Propylbenzene | ND | 1.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| sec-Butylbenzene | ND | 1.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| Styrene | ND | 1.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| tert-Butylbenzene | ND | 1.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| Tetrachloroethene (PCE) | ND | 1.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| trans-1,2-DCE | ND | 1.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| trans-1,3-Dichloropropene | ND | 1.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| 1,2,3-Trichlorobenzene | ND | 1.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| 1,1,1-Trichloroethane | ND | 1.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| 1,1,2-Trichloroethane | ND | 1.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| Trichloroethene (TCE) | ND | 1.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| Trichlorofluoromethane | ND | 1.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| 1,2,3-Trichloropropane | ND | 2.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| Vinyl chloride | ND | 1.0 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| Xylenes, Total | ND | 1.5 | | µg/L | 1 | 12/24/2023 10:22:00 PM | R102066 |
| Surr: 1,2-Dichloroethane-d4 | 88.0 | 70-130 | | %Rec | 1 | 12/24/2023 10:22:00 PM | R102066 |
| Surr: 4-Bromofluorobenzene | 99.2 | 70-130 | | %Rec | 1 | 12/24/2023 10:22:00 PM | R102066 |
| Surr: Dibromofluoromethane | 96.9 | 70-130 | | %Rec | 1 | 12/24/2023 10:22:00 PM | R102066 |
| Surr: Toluene-d8 | 96.0 | 70-130 | | %Rec | 1 | 12/24/2023 10:22:00 PM | R102066 |

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312925
05-Jan-24

Client: Animas Environmental Services
Project: BMG Hwy 537 2008 Release

| | | | | | | | | | | |
|--------------------------------|---------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Sample ID: MB-79449 | SampType: MBLK | TestCode: EPA Method 8015M/D: Diesel Range | | | | | | | | |
| Client ID: PBW | Batch ID: 79449 | RunNo: 101917 | | | | | | | | |
| Prep Date: 12/18/2023 | Analysis Date: 12/18/2023 | SeqNo: 3759177 | | 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 | 0.52 | | 0.5000 | | 104 | 54.5 | 177 | | | |

| | | | | | | | | | | |
|-----------------------------|---------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Sample ID: LCS-79449 | SampType: LCS | TestCode: EPA Method 8015M/D: Diesel Range | | | | | | | | |
| Client ID: LCSW | Batch ID: 79449 | RunNo: 101917 | | | | | | | | |
| Prep Date: 12/18/2023 | Analysis Date: 12/18/2023 | SeqNo: 3759179 | | 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 | 100 | 57 | 147 | | | |
| Surr: DNOP | 0.26 | | 0.2500 | | 104 | 54.5 | 177 | | | |

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 standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312925

05-Jan-24

Client: Animas Environmental Services**Project:** BMG Hwy 537 2008 Release

| | | | | | | | | | | |
|---------------------------------|----------------------------------|-------|---|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID: 2.5ug gro lcs | SampType: LCS | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
| Client ID: LCSW | Batch ID: GW101914 | | RunNo: 101914 | | | | | | | |
| Prep Date: | Analysis Date: 12/18/2023 | | SeqNo: 3758748 | | 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 | 97.1 | 70 | 130 | | | |
| Surr: BFB | 39 | | 20.00 | | 196 | 15 | 270 | | | |

| | | | | | | | | | | |
|-------------------------------|----------------------------------|-------|---|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID: mb | SampType: MBLK | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
| Client ID: PBW | Batch ID: GW101914 | | RunNo: 101914 | | | | | | | |
| Prep Date: | Analysis Date: 12/18/2023 | | SeqNo: 3758749 | | 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 | 19 | | 20.00 | | 96.5 | 15 | 270 | | | |

| | | | | | | | | | | |
|---------------------------------|----------------------------------|-----|---|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID: 2.5ug gro lcs | SampType: LCS | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
| Client ID: LCSW | Batch ID: GW101954 | | RunNo: 101954 | | | | | | | |
| Prep Date: | Analysis Date: 12/19/2023 | | SeqNo: 3760780 | | Units: %Rec | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB | 41 | | 20.00 | | 206 | 15 | 270 | | | |

| | | | | | | | | | | |
|-----------------------|----------------------------------|-----|---|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID: mb | SampType: MBLK | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
| Client ID: PBW | Batch ID: GW101954 | | RunNo: 101954 | | | | | | | |
| Prep Date: | Analysis Date: 12/19/2023 | | SeqNo: 3760781 | | Units: %Rec | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB | 20 | | 20.00 | | 98.4 | 15 | 270 | | | |

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312925

05-Jan-24

Client: Animas Environmental Services**Project:** BMG Hwy 537 2008 Release

| | | | | | | | | | | |
|-----------------------------|----------------------------------|-----|-----------|--|------|--------------------|-----------|------|----------|------|
| Sample ID: 100ng lcs | SampType: LCS | | | TestCode: EPA Method 8260B: VOLATILES | | | | | | |
| Client ID: LCSW | Batch ID: R102066 | | | RunNo: 102066 | | | | | | |
| Prep Date: | Analysis Date: 12/24/2023 | | | SeqNo: 3767183 | | Units: µg/L | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 19 | 1.0 | 20.00 | 0 | 95.8 | 70 | 130 | | | |
| Toluene | 19 | 1.0 | 20.00 | 0 | 93.8 | 70 | 130 | | | |
| Chlorobenzene | 19 | 1.0 | 20.00 | 0 | 94.9 | 70 | 130 | | | |
| 1,1-Dichloroethene | 18 | 1.0 | 20.00 | 0 | 89.8 | 70 | 130 | | | |
| Trichloroethene (TCE) | 18 | 1.0 | 20.00 | 0 | 88.2 | 70 | 130 | | | |
| Surr: 1,2-Dichloroethane-d4 | 9.1 | | 10.00 | | 91.3 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 10 | | 10.00 | | 103 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 9.9 | | 10.00 | | 98.9 | 70 | 130 | | | |
| Surr: Toluene-d8 | 9.8 | | 10.00 | | 97.8 | 70 | 130 | | | |

| | | | | | | | | | | |
|--------------------------------|----------------------------------|-----|-----------|--|------|--------------------|-----------|------|----------|------|
| Sample ID: mb | SampType: MBLK | | | TestCode: EPA Method 8260B: VOLATILES | | | | | | |
| Client ID: PBW | Batch ID: R102066 | | | RunNo: 102066 | | | | | | |
| Prep Date: | Analysis Date: 12/24/2023 | | | SeqNo: 3767184 | | Units: µg/L | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 1.0 | | | | | | | | |
| Toluene | ND | 1.0 | | | | | | | | |
| Ethylbenzene | ND | 1.0 | | | | | | | | |
| Methyl tert-butyl ether (MTBE) | ND | 1.0 | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | | | | | | | | |
| 1,2-Dichloroethane (EDC) | ND | 1.0 | | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | | | | | | | | |
| Naphthalene | ND | 2.0 | | | | | | | | |
| 1-Methylnaphthalene | ND | 4.0 | | | | | | | | |
| 2-Methylnaphthalene | ND | 4.0 | | | | | | | | |
| Acetone | ND | 10 | | | | | | | | |
| Bromobenzene | ND | 1.0 | | | | | | | | |
| Bromodichloromethane | ND | 1.0 | | | | | | | | |
| Bromoform | ND | 1.0 | | | | | | | | |
| Bromomethane | ND | 3.0 | | | | | | | | |
| 2-Butanone | ND | 10 | | | | | | | | |
| Carbon disulfide | ND | 10 | | | | | | | | |
| Carbon Tetrachloride | ND | 1.0 | | | | | | | | |
| Chlorobenzene | ND | 1.0 | | | | | | | | |
| Chloroethane | ND | 2.0 | | | | | | | | |
| Chloroform | ND | 1.0 | | | | | | | | |
| Chloromethane | ND | 3.0 | | | | | | | | |
| 2-Chlorotoluene | ND | 1.0 | | | | | | | | |

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312925

05-Jan-24

Client: Animas Environmental Services

Project: BMG Hwy 537 2008 Release

| | | | | | | | | | | |
|-----------------------------|---------------------------|---------------------------------------|-------------|-------------|------|----------|-----------|------|----------|------|
| Sample ID: mb | SampType: MBLK | TestCode: EPA Method 8260B: VOLATILES | | | | | | | | |
| Client ID: PBW | Batch ID: R102066 | RunNo: 102066 | | | | | | | | |
| Prep Date: | Analysis Date: 12/24/2023 | SeqNo: 3767184 | 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 standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312925

05-Jan-24

Client: Animas Environmental Services

Project: BMG Hwy 537 2008 Release

| | | | | | | | | | | |
|-----------------------------|---------------------------|---------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Sample ID: mb | SampType: MBLK | TestCode: EPA Method 8260B: VOLATILES | | | | | | | | |
| Client ID: PBW | Batch ID: R102066 | RunNo: 102066 | | | | | | | | |
| Prep Date: | Analysis Date: 12/24/2023 | SeqNo: 3767184 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 | 9.1 | | 10.00 | | 91.0 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 10 | | 10.00 | | 103 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 10 | | 10.00 | | 100 | 70 | 130 | | | |
| Surr: Toluene-d8 | 9.7 | | 10.00 | | 97.3 | 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 standard limits. If undiluted results may be estimated.
- B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312925

05-Jan-24

Client: Animas Environmental Services**Project:** BMG Hwy 537 2008 Release

| | | | | | | | | | | |
|------------------------------|----------------------------------|-----|---|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID: MB-79667 | SampType: MBLK | | TestCode: Total Phenolics by SW-846 9067 | | | | | | | |
| Client ID: PBW | Batch ID: 79667 | | RunNo: 102179 | | | | | | | |
| Prep Date: 12/29/2023 | Analysis Date: 12/29/2023 | | SeqNo: 3772098 | | Units: µg/L | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Phenolics | ND | 3.0 | | | | | | | | |

| | | | | | | | | | | |
|------------------------------|----------------------------------|-----|---|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID: LCS-79667 | SampType: LCS | | TestCode: Total Phenolics by SW-846 9067 | | | | | | | |
| Client ID: LCSW | Batch ID: 79667 | | RunNo: 102179 | | | | | | | |
| Prep Date: 12/29/2023 | Analysis Date: 12/29/2023 | | SeqNo: 3772099 | | Units: µg/L | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Phenolics | 15 | 3.0 | 20.00 | 0 | 76.7 | 43.9 | 108 | | | |

| | | | | | | | | | | |
|------------------------------|----------------------------------|-----|---|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID: LCSD-79667 | SampType: LCSD | | TestCode: Total Phenolics by SW-846 9067 | | | | | | | |
| Client ID: LCSS02 | Batch ID: 79667 | | RunNo: 102179 | | | | | | | |
| Prep Date: 12/29/2023 | Analysis Date: 12/29/2023 | | SeqNo: 3772100 | | Units: µg/L | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Phenolics | 16 | 3.0 | 20.00 | 0 | 78.7 | 43.9 | 108 | 2.55 | 20 | |

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312925

05-Jan-24

Client: Animas Environmental Services**Project:** BMG Hwy 537 2008 Release

| | | | | | | | | | | |
|------------------------|----------------------------------|--------|---|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID: MB-A | SampType: MBLK | | TestCode: EPA Method 6010B: Dissolved Metals | | | | | | | |
| Client ID: PBW | Batch ID: A101908 | | RunNo: 101908 | | | | | | | |
| Prep Date: | Analysis Date: 12/18/2023 | | SeqNo: 3758361 | | Units: mg/L | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Iron | ND | 0.020 | | | | | | | | |
| Manganese | ND | 0.0020 | | | | | | | | |

| | | | | | | | | | | |
|-------------------------|----------------------------------|--------|---|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID: LCS-A | SampType: LCS | | TestCode: EPA Method 6010B: Dissolved Metals | | | | | | | |
| Client ID: LCSW | Batch ID: A101908 | | RunNo: 101908 | | | | | | | |
| Prep Date: | Analysis Date: 12/18/2023 | | SeqNo: 3758363 | | Units: mg/L | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Iron | 0.49 | 0.020 | 0.5000 | 0 | 98.8 | 80 | 120 | | | |
| Manganese | 0.49 | 0.0020 | 0.5000 | 0 | 98.1 | 80 | 120 | | | |

| | | | | | | | | | | |
|----------------------------------|----------------------------------|------|---|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID: 2312925-003DMS | SampType: MS | | TestCode: EPA Method 6010B: Dissolved Metals | | | | | | | |
| Client ID: MW-9R | Batch ID: A101908 | | RunNo: 101908 | | | | | | | |
| Prep Date: | Analysis Date: 12/18/2023 | | SeqNo: 3758376 | | Units: mg/L | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Iron | 3.7 | 0.10 | 2.500 | 1.148 | 101 | 75 | 125 | | | |

| | | | | | | | | | | |
|-----------------------------------|----------------------------------|------|---|-------------|--------------------|----------|-----------|-------|----------|------|
| Sample ID: 2312925-003DMSD | SampType: MSD | | TestCode: EPA Method 6010B: Dissolved Metals | | | | | | | |
| Client ID: MW-9R | Batch ID: A101908 | | RunNo: 101908 | | | | | | | |
| Prep Date: | Analysis Date: 12/18/2023 | | SeqNo: 3758377 | | Units: mg/L | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Iron | 3.7 | 0.10 | 2.500 | 1.148 | 102 | 75 | 125 | 0.512 | 20 | |

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312925

05-Jan-24

Client: Animas Environmental Services

Project: BMG Hwy 537 2008 Release

| | | | | | | | | | | |
|------------------------|---------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Sample ID: MB-79518 | SampType: MBLK | TestCode: SM2540C MOD: Total Dissolved Solids | | | | | | | | |
| Client ID: PBW | Batch ID: 79518 | RunNo: 102025 | | | | | | | | |
| Prep Date: 12/20/2023 | Analysis Date: 12/21/2023 | SeqNo: 3764700 | | Units: mg/L | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Total Dissolved Solids | ND | 50.0 | | | | | | | | |

| | | | | | | | | | | |
|------------------------|---------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Sample ID: LCS-79518 | SampType: LCS | TestCode: SM2540C MOD: Total Dissolved Solids | | | | | | | | |
| Client ID: LCSW | Batch ID: 79518 | RunNo: 102025 | | | | | | | | |
| Prep Date: 12/20/2023 | Analysis Date: 12/21/2023 | SeqNo: 3764701 | | Units: mg/L | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Total Dissolved Solids | 995 | 50.0 | 1000 | 0 | 99.5 | 80 | 120 | | | |

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 standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit



Environment Testin

Eurofins Environment Testing South
Central, LLC

4901 Hawkins NE

Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Animas Environmental Work Order Number: 2312925 RcptNo: 1

Received By: Tracy Casarrubias 12/15/2023 6:50:00 AM

Completed By: Tracy Casarrubias 12/15/2023 10:40:35 AM

Reviewed By: *gm 12/15/23*

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ 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: *js 12-15-23*

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☒ No ☐ NA ☐

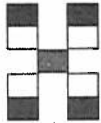
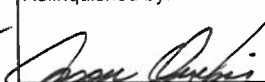

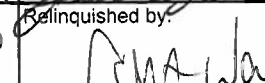
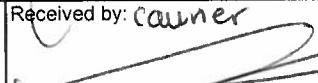
Person Notified: Angela T. Date: 12/15/2023
By Whom: Tracy Casarrubias Via: ☐ eMail ☒ Phone ☐ Fax ☐ In Person
Regarding: Missing Volume.
Client Instructions: Taking some unpreserved volume from different fraction to fulfill "8015DRO" analysis.- T

16. Additional remarks:

From original volume provided for 003C, ~200mL was poured off into a 250mL Amber Glass bottle for "8015DRO" analysis.- TMC
12/15/23

17. Cooler Information

| Cooler No | Temp $^{\circ}\text{C}$ | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|-------------------------|-----------|-------------|---------|-----------|-----------|
| 1 | 1.8 | Good | Yes | Morty | | |

| Chain-of-Custody Record | | | | | | Turn-Around Time: | |  HALL ENVIRONMENTAL ANALYSIS LABORATORY | | | | | | | |
|---|-------|---|-------------------|--|---|--------------------------|-----------------------|--|---|---|-------------------------|----------------------|--|--|--|
| Client: | | Animas Environmental Services | | <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush | | | | | | | | | | | |
| Mailing Address: | | | | PO Box 8 | | BMG Hwy 537 2008 Release | | 4901 Hawkins NE - Albuquerque, NM 87109 | | | | | | | |
| | | | | Farmington, NM 87499-0008 | | Project #: | | Tel. 505-345-3975 Fax 505-345-4107 | | | | | | | |
| Phone #: | | | | 505-564-2281 or 720-537-6650 | | | | Analysis Request | | | | | | | |
| Email or Fax#: | | | | atodd@animasenvironmental.com | | Project Manager: | | Angela Todd Elizabeth McNally | | | | | | | |
| QA/QC Package: | | | | | | Elizabeth McNally | | | | | | | | | |
| <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation) | | | | | | | | | | | | | | | |
| Accreditation: | | | | | | Sampler: | | Jason Oyebi | | | | | | | |
| <input type="checkbox"/> NELAP <input type="checkbox"/> Other | | | | | | On Ice: | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | |
| <input type="checkbox"/> EDD (Type) | | | | | | Sample Temperature: | | 1.8 ± 0.1 = 1.8°C | | | | | | | |
| Date | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | HEAL No. | VOCs via Method 8260B | TPH (DRO/GRO/MRO) via Method 8015 | Total dissolved solids via Method 2540C | Dissolved iron and manganese via Method 6010B/6020A | Phenols via Method 9066 | Air Bubbles (Y or N) | | | |
| 12-13-23 | 14:35 | H ₂ O | MW-7 | 1x500-mL poly | no pres | 001 | | | X | | | | | | |
| 12-13-23 | 16:01 | H ₂ O | MPE-5 | 1x500-mL poly | no pres | 002 | | | X | | | | | | |
| 12-13-23 | 16:33 | H ₂ O | MW-9R | 5x40 mL VOA 1x500-mL poly 1x125-mL poly 1x1-L amber glass | 5-HCl or HgCl ₂ 1-no pres 1-HNO ₃ 1-H ₂ SO ₄ | 003 | X | X | X | X | X | | | | |
| | | H ₂ O | Trip Blanks | 2x40mL VOA | 2-HCl or HgCl ₂ | 004 | X | X | | | | | | | |
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| | | | | | | | | | | | | | | | |
| Date: | Time: | Relinquished by: | | Received by: | | Date | Time | Remarks: Please bill direct to Benson-Montin-Greer bmg@bmgdrilling.com Metals sample to be field-filtered. Call with any questions. | | | | | | | |
| 12/14/23 | 1332 |  | |  | | 12/14/23 | 1332 | | | | | | | | |
| Date: | Time: | Relinquished by: | | Received by: | | Date | Time | | | | | | | | |
| 12/14/23 | 1750 |  | |  | | 12/15/23 | 6:50 | | | | | | | | |

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 319193

CONDITIONS

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| Operator: BENSON-MONTIN-GREER DRILLING CORP 4900 College Blvd. Farmington, NM 87402 | OGRID: 2096 |
| | Action Number: 319193 |
| | Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT) |
| | |

CONDITIONS

| Created By | Condition | Condition Date |
|------------------|--|----------------|
| michael.buchanan | Review of the Q1 through Q4 2023 Progress Report for Highway 537 Llaves Pipeline 2008 Release: Content Satisfactory 1. Proceed to professionally survey the TOC for the MPE wells and MW-9R for accurate site description and data collection 2. Remove NAPL from MPE-4 as planned 3. Install and change absorbent socks as planned for MPE wells 4. Continue with scheduled sampling and gauging as BMG has planned and please notify OCD four (4) business days in advance before sampling commences. 5. Send the 2024 Progress Report by April 1, 2025. | 4/24/2024 |