August 26, 2021

APPROVED
By Nelson Velez at 3:22 pm, Jan 03, 2022

1. Follow recommendations stated within the aforementioned report to conduct groundwater monitoring and sampling in MW-1.
a. Quarterly: Volatile organics (USEPA Method 8260)
b. Annual: Phenols (SW-846 9067) and dissolved manganese (USEPA Method 200.7)
c. Gauge all wells for depth to groundwater on a quarterly basis
d. Measure water quality parameters in all wells on an annual basis
e. Replace absorbent sock in MW-1 if needed
f. Submit the Annual Monitoring Report to the OCD no later than March 31, 2022

Cory Smith
New Mexico Oil Conservation Division
1000 Rio Brazos Road
Aztec, New Mexico 87410

Re: Q1 through Q4 2020 Progress Report
Benson-Montin-Greer
Highway 537 Truck Receiving Station 2009 Release
Rio Arriba County, New Mexico
AP-137 (Formerly 3RP-448)

Dear Mr. Smith:

On behalf of Benson-Montin-Greer Drilling Corporation (BMG), Animas Environmental Services, LLC (AES) has prepared this Annual 2020 Progress Report, which provides details of monitoring and sampling of site wells at the BMG Highway 537 Truck Receiving Station 2009 Release location. Site activities were conducted in accordance with a Stage 1 and 2 Abatement Plan dated June 14, 2019, and Abatement Plan approval is currently pending.

1.0 Site Information

1.1 Site Location

The 2009 release originated on the Schmitz Ranch, on the south side of Highway 537 and within the bermed area of the Highway 537 Truck Receiving Station. The station is adjacent to the Los Ojitos Arroyo, which ultimately drains to Largo Canyon. The release location is legally described as being located within the SW¼ NW¼ Section 18, T25N, R3W in Rio Arriba County, New Mexico. Latitude and longitude were recorded as being N36.39866 and W107.19328, respectively. A topographic site location map, based on an excerpt from the U.S. Geological Survey (USGS) 7.5-minute Schmitz Ranch, Rio Arriba County, New Mexico topographic quadrangle, is included as Figure 1, and a general site plan is presented as Figure 2.

1.2 Release History

January 29, 2009 - a Western Refining truck driver discovered crude condensate within the bermed area around the storage tanks, on the south side of Tank #1. BMG personnel arrived on-site and confirmed a leak at a buried 6-inch line between the storage tanks and

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the truck loading pump. The release was the result of a corrosion hole along the bottom of the pipe near the truck loading pumps.

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

1.3 Site Investigation and Monitor Well Installation

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

Soils were found to consist of interbedded layers of moist reddish-brown clayey and silty sand, moist reddish-brown silty and sandy clay, poorly sorted tan sands and sandstone, and moist stiff brown clays. Soil contaminant concentrations exceeded NMOCD action levels for total BTEX in MW-1, MW-3, MW-4, and MW-8. Soil concentrations for total TPH exceeded laboratory detection limits in MW-1, MW-3, MW-4, and MW-8. The highest total BTEX concentrations and total TPH concentrations were reported at 345 mg/kg and 8,100 mg/kg, respectively, at 26 ft bgs in MW-3. Details of the site investigation are included in the AES *Site Investigation Report* submitted to NMOCD in April 2009.

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

- Former Tank Area - under the former tank area, the field screening results for VOCs via OVM ranged from 0.0 parts per million (ppm) in SB-1, SB-2, SB-4, and SB-6 up to 1,048 ppm in SB-5 (8 to 12 ft). With the exception of SB-5, VOC concentrations in the tank area borings were below the NMOCD action level of 100 ppm VOCs. Field TPH concentrations were also below the NMOCD action level of 100 mg/kg in all borings, except SB-5, in which the highest TPH concentration was noted at 225 mg/kg (12 to 16 ft bgs). The remaining intervals in SB-5 had TPH concentrations of 61.5 mg/kg (4 to 8 ft and 8 to 12 ft bgs) and 69.2 mg/kg (16 to 20 ft bgs). Excepting SB-5, residual contaminant concentrations

below the former tank area were below applicable NMOCD action levels for VOCs and TPH.

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

1.4 Groundwater Monitoring and Sampling, 2009 to 2017

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

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

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

On August 7, 2017, BMG, with approval from NMOCD, completed the plugging and abandonment (P&A) of six monitor wells located at the site, including MW-6 through MW-11. These monitor wells all had at least eight consecutive events of groundwater contaminant concentrations below laboratory detection limits or below applicable New Mexico WQCC standards. At the request of NMOCD, MW-2, MW-4, and MW-5 were kept open so that they could continue to be gauged for depth to groundwater and hydraulic gradient could be determined.

1.6 NAPL Recovery Efforts in MW-1

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

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

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

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

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

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

1.7 Site Activities, 2019

1.7.1 Groundwater Monitoring and Sampling, March 2019

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

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

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

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

1.7.2 Soil Boring Installation and Groundwater Sampling, September 2019

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

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

On September 25, 2019, groundwater gauging and sampling occurred. Residual NAPL was observed in MW-1 (0.08 ft). NAPL was effectively bailed off, and samples were collected from MW-1 (source area well) for laboratory analysis of WQCC parameters listed in NMAC 20.6.2.3103 as noted in the Abatement Plan. MW-1 exceeded WQCC standards for benzene (88 µg/L), TDS (3,500 mg/L), sulfate (1,800 mg/L), phenols (0.028 mg/L), uranium (0.036 mg/L), total aluminum (20 mg/L), total iron (28 mg/L), and total

manganese (0.68 mg/L). Groundwater concentrations were either below laboratory detection limits or below applicable WQCC standards for all other parameters analyzed.

1.8 Abatement Plan

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

2.0 Groundwater Monitoring and Sampling, 2020

Groundwater monitoring and sampling was conducted by AES in March, June, September, and November 2020. All samples were preserved in laboratory-supplied containers and stored in an insulated cooler containing ice. Samples were shipped by Hall personnel in chilled and insulated coolers at less than 6°C to the analytical laboratory.

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

2.1 March 2020

Groundwater monitoring of all site wells and sampling of monitor well MW-1 and MW-2 was conducted by AES on March 25, 2020, for 1st Quarter 2020. During the sampling event, a NAPL sheen was detected in MW-1 before the initial bail. NAPL was bailed from this well, and because groundwater recharge was sufficient in both wells, samples were able to be collected for laboratory analysis.

Groundwater Elevations and Water Quality Measurements
Depth to groundwater at the site ranged from 29.56 ft bgs at MW-3 to 30.56 ft bgs at MW-5. Residual NAPL with low transmissivity was measured only at MW-1 (0.01 ft). Well MW-5 had a damaged casing. Groundwater gradient was calculated to be 0.006 ft/ft in a southwestern direction. March 2020 groundwater elevations and contours are presented in Figure 3A.

Groundwater Laboratory Analyses
Groundwater samples from MW-1 (near the release area) and MW-2 (up-gradient) were submitted to Hall in Albuquerque, New Mexico, for analysis of the following parameters listed in NMAC 20.6.2.3103(A-C) in accordance with the proposed Abatement Plan:

- BTEX per USEPA Method 8260 Short List;
- TPH (GRO/DRO/MRO) per USEPA Method 8015B;
- Dissolved Iron and Manganese per USEPA Method 6010B; and
- Phenolics per USEPA Method SW-846 9067.

In addition, groundwater samples from up-gradient MW-2 were submitted to Hall for analysis of:

- Anions (sulfate) per USEPA Method 200.0;
- Total dissolved solids (TDS) per USEPA Method SM2540C; and
- Total aluminum and uranium per USEPA Method 200.7 and 200.8.

Groundwater Laboratory Analytical Results

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

- Benzene - 220 µg/L (WQCC standard 5 µg/L);
- Dissolved manganese – 0.52 mg/L (WQCC standard 0.2).

Groundwater analytical results for MW-2 (upgradient and background) showed concentrations *above WQCC standards* for the following parameters:

- Sulfate – 2,200 mg/L (WQCC standard 600 mg/L); and
- Total dissolved solids (TDS) – 3,400 mg/L (WQCC standard 1,000 mg/L).

TPH concentrations as GRO (2.3 mg/L) were detected, and TPH-DRO and TPH-MRO levels were below laboratory detection limits. Note there are no WQCC standards for these parameters.

All other metal concentrations were reported below applicable WQCC standards.

Note that the phenol concentration in both wells was reported below the laboratory detection limit of 2.5 µg/L, which exceeds the September 2019 MW-1 concentration of 0.028 µg/L and the WQCC standard of 0.005 µg/L. Groundwater analytical results are tabulated and presented in Tables 2 and 3; and are also presented on Figure 4. The laboratory analytical report is included in Appendix B.

2.2 June 2020

Groundwater monitoring of all site wells and sampling of monitor wells MW-1 and MW-2 was conducted by AES on June 23, 2020, for 2nd Quarter 2020. During the sampling event, residual NAPL remained in MW-1. NAPL was bailed from this well, and because groundwater recharge was sufficient in both wells, samples were able to be collected for laboratory analysis.

Groundwater Elevations and Water Quality Measurements

Depth to groundwater at the site ranged from 30.26 ft bgs at MW-3 to 31.09 ft bgs at MW-5. NAPL was measured only at MW-1 (0.03 ft). In order to treat the residual NAPL that had not been easily recoverable because of reduced transmissivity, AES installed a hydrophobic absorbent sock within MW-1. Groundwater gradient was calculated to be 0.006 ft/ft in a southwestern direction. June 2020 groundwater elevations and contours are presented in Figure 3B.

Groundwater Laboratory Analyses

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

- BTEX per USEPA Method 8260 Short List;
- TPH (GRO/DRO/MRO) per USEPA Method 8015B;
- Dissolved Aluminum, Iron, and Manganese per USEPA Method 6010B; and
- Dissolved Uranium per USEPA Method 6020.

In addition, groundwater samples from MW-2 were submitted to Hall for analysis of:

- Dissolved Aluminum per USEPA Method 6010B.

Groundwater Laboratory Analytical Results

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

- Benzene - 760 µg/L (WQCC standard 5 µg/L);
- Dissolved manganese – 0.66 mg/L (WQCC standard 0.2).

Groundwater analytical results for MW-2 did not exceed the WQCC standard for dissolved aluminum.

TPH concentrations as GRO (7.7 mg/L) were detected, and TPH-DRO and TPH-MRO levels were below laboratory detection limits. Groundwater analytical results are tabulated and presented in Tables 2 and 3; and are also presented on Figure 4.

2.3 September 2020

Groundwater monitoring of all site wells and sampling of monitor well MW-1 was conducted by AES on September 23, 2020, for 3rd Quarter 2020. Residual NAPL was noted in MW-1.

Groundwater Elevations and Water Quality Measurements
Depth to groundwater at the site ranged from 30.78 ft bgs at MW-3 to 31.58 ft bgs at MW-5. NAPL was measured only at MW-1 (0.05 ft). Groundwater gradient was calculated to be 0.005 ft/ft in a southwestern direction. September 2020 groundwater elevations and contours are presented in Figure 3C.

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

- BTEX per USEPA Method 8260 Short List; and
- TPH (GRO/DRO/MRO) per USEPA Method 8015B.

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

- Benzene – 9.7 µg/L (WQCC standard 5 µg/L).

TPH concentrations as GRO (0.35 mg/L) and DRO (4.7 mg/L) were detected, and TPH-MRO levels were below laboratory detection limits. Groundwater analytical results are tabulated and presented in Tables 2 and 3; and are also presented on Figure 4. The laboratory analytical report is included in Appendix B.

2.4 November 2020

Groundwater monitoring of all site wells and sampling of monitor well MW-1 was conducted by AES on November 23, 2020, for 4th Quarter 2020. Residual NAPL was detected in MW-1.

Groundwater Elevations and Water Quality Measurements

Depth to groundwater at the site ranged from 30.84 ft bgs at MW-3 to 31.66 ft bgs at MW-5. NAPL was measured only at MW-1 (0.02 ft). Field water quality measurements could not be obtained from MW-1 due to a NAPL sheen remaining after bailing. Groundwater gradient was calculated to be 0.005 ft/ft in a southwestern direction. November 2020 groundwater elevations and contours are presented in Figure 3D.

Groundwater Laboratory Analyses

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

- BTEX per USEPA Method 8021; and
- TPH (GRO/DRO/MRO) per USEPA Method 8015B.

Groundwater Laboratory Analytical Results

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

- Benzene – 110 µg/L (WQCC standard 5 µg/L).

TPH concentrations as GRO (3.6 mg/L) and DRO (1.0 mg/L) were detected, and TPH-MRO levels were below laboratory detection limits. Groundwater analytical results are tabulated and presented in Tables 2 and 3; and are also presented on Figure 4. The laboratory analytical report is included in Appendix B.

3.0 Discussion

Under NMAC 9.15.30 for Abatement Plans, groundwater sampling for parameters listed in NMAC 20.6.2.3103(A-C) are required to identify parameters that may be contaminants of concern. Comprehensive sampling was first completed in MW-1 (source area) in September 2019, and exceedances were identified for benzene, uranium, sulfate, TDS, and dissolved manganese. Total phenol concentrations were also slightly above laboratory detection limits in MW-1, and benzene concentrations have been variable but overall decreasing in MW-1 (release area). Subsequent sampling at MW-2 (upgradient) was then conducted in March 2020 for the following parameters to see if elevated concentrations were associated with background levels.

- **Sulfate and TDS** – is associated with naturally occurring background concentrations;
- **Uranium** – follow up sampling in MW-1 and MW-2 showed concentrations below WQCC standards which appear to be associated with naturally occurring background levels;
- **Manganese** – dissolved phase concentrations at MW-1 (source area) are above natural background levels, with the highest concentration reported at 0.66 mg/L.

4.0 Conclusions and Recommendations

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

Based on field observations, field screening, and laboratory analytical results from March through November 2020, the following is concluded:

1. Depth to groundwater at the site gradually and slightly decreased at all wells between the March and November 2020 events. The groundwater elevation at MW-1 (31.53 ft bgs) decreased to a near record low at MW-1 (31.65 ft bgs), and to record lows at MW-2 through MW-5, with elevations ranging from 30.84 ft bgs at MW-3 to 31.66 ft bgs at MW-5 in November 2020. Gradient was calculated to be to the southwest and is consistent with previous site data;

2. Residual NAPL was observed in MW-1 (0.01 ft in March 2020 to 0.05 ft in September 2020). NAPL was effectively bailed off to a sheen, a hydrophobic absorbent sock was installed in June 2020, and samples were collected in March and through November 2020 from MW-1. In addition, samples were also collected from MW-2 in March and June 2020 for laboratory analyses;

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

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

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

5.0 Scheduled Site Activities

In accordance with the submitted Stage 1 and 2 Abatement Plan, the following site activities are currently scheduled for 2021:

Months from Stage 1 and 2 Abatement Plan Approval and/or Scheduled Month for Work	***Abatement Task Due***
0	NMOCD Approval of Stage 1 and Stage 2 Abatement Plan
0.5	Public Notice Posted
March 2021	Quarterly groundwater gauging all wells; Groundwater sampling (MW-1)
June 2021	Quarterly groundwater gauging all wells; Groundwater sampling (MW-1)
July 2021	1st Progress Report (Q1 and Q2) (in progress)
September 2021	Quarterly groundwater gauging and water quality measurements all wells. Groundwater sampling (MW-1)
December 2021	Quarterly groundwater gauging all wells; Groundwater sampling (MW-1)
January 2022	2nd Progress Report (Q3 and Q4)

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

Respectfully Submitted,

David J. Reese
Environmental Scientist

Elizabeth McNally, P.E.

Tables

Figures

Appendices

Cc: Zach Stradling (*zstradling@bmgdrilling.com*)
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Craig Schmitz, Private Landowner (hard copy)
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Lindrith, NM 87029

https://animasenvironmental.sharepoint.com/sites/bmgprojectsnon-spcc/Shared Documents/Hwy 537 2009/Reports/Annual 2020 Groundwater Monitoring Report 082621.docx

Tables

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA
BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE
Rio Arriba County, New Mexico

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

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA
BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE
Rio Arriba County, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Water Level Elevation (ft amsl)	Corrected GW Elev. (ft)	Temp. (°C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-1	28-Sep-17	7064.66	30.43	31.65	1.22	7033.01	7034.07	Not Measured - NAPL Present (1.22 ft thickness)				
MW-1	07-Dec-17	7064.66	30.01	30.39	0.38	7034.27	7034.60	Not Measured - NAPL Present (0.38 ft thickness)				
MW-1	09-Jan-18	7064.66	30.12	30.55	0.43	7034.11	7034.48	Not Measured - NAPL Present (0.43 ft thickness)				
MW-1	12-Feb-18	7064.66	30.07	30.44	0.37	7034.22	7034.54	Not Measured - NAPL Present (0.37 ft thickness)				
MW-1	05-Mar-18	7064.66	30.12	30.31	0.19	7034.35	7034.52	Not Measured - NAPL Present (0.19 ft thickness)				
MW-1	05-Apr-18	7064.66	30.13	30.30	0.17	7034.36	7034.51	Not Measured - NAPL Present (0.17 ft thickness)				
MW-1	18-May-18	7064.66	30.18	30.38	0.20	7034.28	7034.45	Not Measured - NAPL Present (0.20 ft thickness)				
MW-1	12-Jun-18	7064.66	30.34	31.06	0.72	7033.60	7034.23	Not Measured - NAPL Present (0.72 ft thickness)				
MW-1	09-Jul-18	7064.66	30.60	30.97	0.37	7033.69	7034.01	Not Measured - NAPL Present (0.37 ft thickness)				
MW-1	13-Aug-18	7064.66	30.73	31.18	0.45	7033.48	7033.87	Not Measured - NAPL Present (0.45 ft thickness)				
MW-1	24-Sep-18	7064.66	30.99	31.31	0.32	7033.35	7033.63	Not Measured - NAPL Present (0.32 ft thickness)				
MW-1	26-Oct-18	7064.66	31.04	31.17	0.13	7033.49	7033.60	Not Measured - NAPL Present (0.13 ft thickness)				
MW-1	19-Nov-18	7064.66	31.05	31.13	0.08	7033.53	7033.60	Not Measured - NAPL Present (0.08 ft thickness)				
MW-1	14-Dec-18	7064.66	31.04	31.08	0.04	7033.58	7033.61	Not Measured - NAPL Present (0.04 ft thickness)				
MW-1	15-Jan-19	7064.66		29.90		7034.76		NM	NM	NM	NM	NM
MW-1	26-Mar-19	7064.66	29.52	29.53	0.01	7035.13	7035.14	13.7	3.297	1.16	7.44	-25.3
MW-1	25-Sep-19	7064.66	30.91	30.99	0.08	7033.67	7033.74	Not Measured - NAPL Present (0.08 ft thickness)				
MW-1	25-Mar-20	7064.66	30.35	30.36	0.01	7034.30	7034.31	Not Measured - NAPL Present (0.01 ft thickness)				
MW-1	23-Jun-20	7064.66	30.94	30.97	0.03	7033.69	7033.72	Not Measured - NAPL Present (0.03 ft thickness)				
MW-1	23-Sep-20	7064.66	31.45	31.50	0.05	7033.16	7033.20	Not Measured - NAPL Present (0.05 ft thickness)				
MW-1	23-Nov-20	7064.66	31.51	31.53	0.02	7033.13	7033.15	Not Measured - NAPL Present (0.02 ft thickness)				
MW-2	05-Mar-09	7064.65		27.69		7036.96		12.00	4.567	2.59	6.82	-29.8
MW-2	10-Sep-09	7064.65		28.38		7036.27		12.93	6.480	1.09	7.58	62.2
MW-2	15-Jan-10	7064.65		28.62		7036.03		12.49	3.604	2.10	7.57	-70.3
MW-2	14-Oct-10	7064.65		28.91		7035.74		12.49	3.968	1.71	7.40	98.9

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA
BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE
Rio Arriba County, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Water Level Elevation (ft amsl)	Corrected GW Elev. (ft)	Temp. (° C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-2	21-Jan-11	7064.65		28.99		7035.66		11.44	4.045	1.62	8.56	-6.2
MW-2	12-May-11	7064.65		28.63		7036.02		13.14	4.087	1.43	7.67	-66.7
MW-2	12-Aug-11	7064.65		29.37		7035.28		14.08	4.102	4.36	7.09	160.2
MW-2	16-Nov-11	7064.65		29.52		7035.13		11.60	4.021	2.48	7.51	176.2
MW-2	21-Feb-12	7064.65		29.46		7035.19		NM	NM	NM	NM	NM
MW-2	24-May-12	7064.65		29.47		7035.18		NM	NM	NM	NM	NM
MW-2	10-Sep-12	7064.65		29.84		7034.81		NM	NM	NM	NM	NM
MW-2	04-Dec-12	7064.65		30.03		7034.62		NM	NM	NM	NM	NM
MW-2	26-Mar-13	7064.65		29.60		7035.05		NM	NM	NM	NM	NM
MW-2	27-Jun-13	7064.65		30.11		7034.54		NM	NM	NM	NM	NM
MW-2	25-Sep-13	7064.65		29.28		7035.37		NM	NM	NM	NM	NM
MW-2	14-Jan-14	7064.65		29.81		7034.84		NM	NM	NM	NM	NM
MW-2	04-Apr-14	7064.65		29.84		7034.81		NM	NM	NM	NM	NM
MW-2	10-Sep-14	7064.65		29.88		7034.77		NM	NM	NM	NM	NM
MW-2	03-Dec-14	7064.65		30.24		7034.41		NM	NM	NM	NM	NM
MW-2	27-Mar-15	7064.65		29.16		7035.49		NM	NM	NM	NM	NM
MW-2	08-Dec-15	7064.65		29.90		7034.75		NM	NM	NM	NM	NM
MW-2	02-Jun-16	7064.65		29.57		7035.08		NM	NM	NM	NM	NM
MW-2	20-Oct-16	7064.65		30.02		7034.63		NM	NM	NM	NM	NM
MW-2	26-Jan-17	7064.65		29.61		7035.04		NM	NM	NM	NM	NM
MW-2	14-Apr-17	7064.65		29.23		7035.42		NM	NM	NM	NM	NM
MW-2	14-Aug-17	7064.65		30.01		7034.64		12.91	3.907	2.22	7.31	168.4
MW-2	26-Mar-19	7064.65		29.29		7035.36		NM	NM	NM	NM	NM
MW-2	25-Sep-19	7064.65		30.66		7033.99		NM	NM	NM	NM	NM
MW-2	25-Mar-20	7064.65		30.04		7034.61		12.2	3.78	1.33	7.17	156.6
MW-2	23-Jun-20	7064.65		30.65		7034.00		13.1	3.76	1.02	7.24	149.7

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA
BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE
Rio Arriba County, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Water Level Elevation (ft amsl)	Corrected GW Elev. (ft)	Temp. (° C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-2	23-Sep-20	7064.65		31.16		7033.49		NM	NM	NM	NM	NM
MW-2	23-Nov-20	7064.65		31.25		7033.40		NM	NM	NM	NM	NM
MW-3	05-Mar-09	7064.01		27.16		7036.85		12.29	4.310	2.17	6.66	-28.2
MW-3	11-Sep-09	7064.01		27.99		7036.02		13.50	6.080	0.53	9.43	-163.6
MW-3	15-Jan-10	7064.01		28.22		7035.79		11.99	3.607	1.85	7.27	-222.5
MW-3	14-Oct-10	7064.01		28.54		7035.47		12.41	4.180	1.46	7.24	-53.1
MW-3	21-Jan-11	7064.01		28.60		7035.41		11.92	4.224	1.60	7.20	-122.5
MW-3	12-May-11	7064.01		28.21		7035.80		12.56	4.172	2.25	7.28	-145.8
MW-3	12-Aug-11	7064.01		29.02		7034.99		13.32	4.372	2.35	7.17	-158.5
MW-3	16-Nov-11	7064.01		29.14		7034.87		10.87	4.326	2.17	6.53	-105.7
MW-3	21-Feb-12	7064.01		29.07		7034.94		11.36	4.481	1.01	7.09	-118.0
MW-3	24-May-12	7064.01		29.09		7034.92		13.30	4.325	0.81	7.07	-70.3
MW-3	10-Sep-12	7064.01		29.45		7034.56		13.26	4.377	2.49	7.23	-42.7
MW-3	04-Dec-12	7064.01		29.65		7034.36		12.08	4.294	0.69	7.26	-46.8
MW-3	26-Mar-13	7064.01		29.12		7034.89		11.93	2.337	5.85	7.46	59.3
MW-3	01-Jul-13	7064.01		29.74		7034.27		14.64	4.119	11.22	7.69	-36.8
MW-3	25-Sep-13	7064.01		28.65		7035.36		12.50	7.764	2.08	7.22	-79.5
MW-3	14-Jan-14	7064.01		29.38		7034.63		12.23	4.764	1.74	NM	-59.9
MW-3	10-Sep-14	7064.01		29.39		7034.62		NM	NM	NM	NM	NM
MW-3	26-Sep-14	7064.01		13.68		7050.33		12.88	2.718	2.69	7.11	27.2
MW-3	03-Dec-14	7064.01		29.83		7034.18		NM	NM	NM	NM	NM
MW-3	27-Mar-15	7064.01		28.60		7035.41		NM	NM	NM	NM	NM
MW-3	08-Dec-15	7064.01		29.45		7034.56		NM	NM	NM	NM	NM
MW-3	02-Jun-16	7064.01		29.15		7034.86		12.71	4.064	1.58	7.08	-3.2
MW-3	20-Oct-16	7064.01		29.60		7034.41		NM	NM	NM	NM	NM

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA
BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE
Rio Arriba County, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Water Level Elevation (ft amsl)	Corrected GW Elev. (ft)	Temp. (° C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-3	26-Jan-17	7064.01		29.09		7034.92		11.19	4.024	1.90	7.18	11.5
MW-3	14-Apr-17	7064.01		28.70		7035.31		NM	NM	NM	NM	NM
MW-3	14-Aug-17	7064.01		29.57		7034.44		12.79	4.041	2.09	7.22	33.6
MW-3	26-Mar-19	7064.01		28.64		7035.37		NM	NM	NM	NM	NM
MW-3	25-Sep-19	7064.01		30.23		7033.78		NM	NM	NM	NM	NM
MW-3	25-Mar-20	7064.01		29.56		7034.45		NM	NM	NM	NM	NM
MW-3	23-Jun-20	7064.01		30.26		7033.75		NM	NM	NM	NM	NM
MW-3	23-Sep-20	7064.01		30.78		7033.23		NM	NM	NM	NM	NM
MW-3	23-Nov-20	7064.01		30.84		7033.17		NM	NM	NM	NM	NM
MW-4	05-Mar-09	7063.72		27.39		7036.33		12.36	4.760	1.72	6.58	-29.2
MW-4	06-Apr-09	7063.72		27.58		7036.14		11.87	4.599	2.06	6.75	18.0
MW-4	10-Sep-09	7063.72		28.12		7035.60		13.09	6.337	0.81	6.98	54.6
MW-4	15-Jan-10	7063.72		28.34		7035.38		11.65	3.812	2.78	7.20	-125.1
MW-4	15-Oct-10	7063.72		28.64		7035.08		12.52	4.491	1.42	7.13	42.8
MW-4	21-Jan-11	7063.72		28.72		7035.00		11.90	4.748	1.14	7.19	5.4
MW-4	12-May-11	7063.72		28.39		7035.33		13.11	4.576	2.58	7.29	-25.8
MW-4	12-Aug-11	7063.72		29.10		7034.62		13.89	4.759	3.98	6.85	74.9
MW-4	16-Nov-11	7063.72		29.26		7034.46		11.66	4.725	2.15	7.11	153.0
MW-4	21-Feb-12	7063.72		29.22		7034.50		10.27	4.927	1.02	7.02	-11.3
MW-4	24-May-12	7063.72		29.23		7034.49		13.75	4.687	1.04	6.98	39.3
MW-4	10-Sep-12	7063.72		29.58		7034.14		NM	NM	NM	NM	NM
MW-4	04-Dec-12	7063.72		29.77		7033.95		NM	NM	NM	NM	NM
MW-4	26-Mar-13	7063.72		29.33		7034.39		NM	NM	NM	NM	NM
MW-4	27-Jun-13	7063.72		29.85		7033.87		NM	NM	NM	NM	NM
MW-4	25-Sep-13	7063.72		28.96		7034.76		NM	NM	NM	NM	NM

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA
BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE
Rio Arriba County, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Water Level Elevation (ft amsl)	Corrected GW Elev. (ft)	Temp. (° C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-4	14-Jan-14	7063.72		29.54		7034.18		NM	NM	NM	NM	NM
MW-4	04-Apr-14	7063.72		29.54		7034.18		12.16	0.435	2.86	6.90	89.4
MW-4	10-Sep-14	7063.72		29.60		7034.12		NM	NM	NM	NM	NM
MW-4	03-Dec-14	7063.72		29.97		7033.75		NM	NM	NM	NM	NM
MW-4	27-Mar-15	7063.72		28.89		7034.83		NM	NM	NM	NM	NM
MW-4	08-Dec-15	7063.72		29.58		7034.14		NM	NM	NM	NM	NM
MW-4	02-Jun-16	7063.72		29.28		7034.44		NM	NM	NM	NM	NM
MW-4	20-Oct-16	7063.72		29.71		7034.01		NM	NM	NM	NM	NM
MW-4	26-Jan-17	7063.72		29.28		7034.44		NM	NM	NM	NM	NM
MW-4	14-Apr-17	7063.72		28.92		7034.80		NM	NM	NM	NM	NM
MW-4	14-Aug-17	7063.72		29.69		7034.03		13.07	4.219	1.98	7.17	109.7
MW-4	26-Mar-19	7063.72		28.99		7034.73		NM	NM	NM	NM	NM
MW-4	25-Sep-19	7063.72		30.35		7033.37		NM	NM	NM	NM	NM
MW-4	25-Mar-20	7063.72		29.78		7033.94		NM	NM	NM	NM	NM
MW-4	23-Jun-20	7063.72		30.39		7033.33		NM	NM	NM	NM	NM
MW-4	23-Sep-20	7063.72		30.88		7032.84		NM	NM	NM	NM	NM
MW-4	23-Nov-20	7063.72		30.95		7032.77		NM	NM	NM	NM	NM
MW-5	05-Mar-09	7064.79		28.24		7036.55		11.80	6.088	3.89	6.61	-17.3
MW-5	10-Sep-09	7064.79		28.87		7035.92		12.78	7.785	1.22	7.09	60.5
MW-5	15-Jan-10	7064.79		29.10		7035.69		11.19	4.288	1.93	7.27	-85.8
MW-5	14-Oct-10	7064.79		29.38		7035.41		12.34	4.725	1.24	7.23	98.1
MW-5	21-Jan-11	7064.79		29.47		7035.32		11.93	5.038	2.71	7.31	103.9
MW-5	12-May-11	7064.79		29.17		7035.62		12.40	4.957	2.44	7.42	-44.4
MW-5	12-Aug-11	7064.79		29.84		7034.95		13.73	4.968	3.87	6.83	189.8
MW-5	16-Nov-11	7064.79		30.00		7034.79		11.16	4.814	4.47	7.18	290.4

TABLE 1
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BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE
Rio Arriba County, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Water Level Elevation (ft amsl)	Corrected GW Elev. (ft)	Temp. (° C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-5	21-Feb-12	7064.79		29.96		7034.83		NM	NM	NM	NM	NM
MW-5	25-May-12	7064.79		29.96		7034.83		NM	NM	NM	NM	NM
MW-5	10-Sep-12	7064.79		30.31		7034.48		NM	NM	NM	NM	NM
MW-5	04-Dec-12	7064.79		30.52		7034.27		NM	NM	NM	NM	NM
MW-5	26-Mar-13	7064.79		30.14		7034.65		NM	NM	NM	NM	NM
MW-5	27-Jun-13	7064.79		30.60		7034.19		NM	NM	NM	NM	NM
MW-5	25-Sep-13	7064.79		29.87		7034.92		NM	NM	NM	NM	NM
MW-5	14-Jan-14	7064.79		30.31		7034.48		NM	NM	NM	NM	NM
MW-5	04-Apr-14	7064.79		30.30		7034.49		NM	NM	NM	NM	NM
MW-5	10-Sep-14	7064.79		30.37		7034.42		NM	NM	NM	NM	NM
MW-5	03-Dec-14	7064.79		30.70		7034.09		NM	NM	NM	NM	NM
MW-5	27-Mar-15	7064.79		29.72		7035.07		NM	NM	NM	NM	NM
MW-5	08-Dec-15	7064.79		30.36		7034.43		NM	NM	NM	NM	NM
MW-5	02-Jun-16	7064.79		30.03		7034.76		NM	NM	NM	NM	NM
MW-5	20-Oct-16	7064.79		30.47		7034.32		NM	NM	NM	NM	NM
MW-5	26-Jan-17	7064.79		30.10		7034.69		NM	NM	NM	NM	NM
MW-5	14-Aug-17	7064.79		30.45		7034.34		Unable to sample - well obstructed				
MW-5	26-Mar-19	7064.79		29.89		7034.90		NM	NM	NM	NM	NM
MW-5	25-Sep-19	7064.79		31.06		7033.73		NM - Well Casing Damaged				
MW-5	25-Mar-20	7064.79		30.56		7034.23		NM - Well Casing Damaged				
MW-5	23-Jun-20	7064.79		31.09		7033.70		NM - Well Casing Damaged				
MW-5	23-Sep-20	7064.79		31.58		7033.21		NM	NM	NM	NM	NM
MW-5	23-Nov-20	7064.79		31.66		7033.13		NM	NM	NM	NM	NM
MW-6	05-Mar-09	7049.54		12.67		7036.87		9.21	4.967	4.30	6.53	4.6
MW-6	10-Sep-09	7049.54		13.90		7035.64		11.85	6.287	1.15	7.12	75.9

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA
BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE
Rio Arriba County, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Water Level Elevation (ft amsl)	Corrected GW Elev. (ft)	Temp. (° C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-6	15-Jan-10	7049.54		14.02		7035.52		10.81	3.789	2.46	7.35	-66.7
MW-6	15-Oct-10	7049.54		14.39		7035.15		12.45	4.353	1.40	7.24	20.7
MW-6	21-Jan-11	7049.54		14.42		7035.12		11.59	4.516	3.10	7.32	-37.3
MW-6	12-May-11	7049.54		14.00		7035.54		10.69	4.349	1.89	7.47	-24.9
MW-6	12-Aug-11	7049.54		14.93		7034.61		11.99	4.492	4.24	7.56	0.2
MW-6	16-Nov-11	7049.54		14.99		7034.55		12.01	4.398	2.74	6.46	182.1
MW-6	21-Feb-12	7049.54		14.90		7034.64		NM	NM	NM	NM	NM
MW-6	25-May-12	7049.54		14.92		7034.62		NM	NM	NM	NM	NM
MW-6	10-Sep-12	7049.54		NM		NM		NM - Well is Dry				
MW-6	04-Dec-12	7049.54		15.48		7034.06		NM	NM	NM	NM	NM
MW-6	26-Mar-13	7049.54		14.79		7034.75		NM	NM	NM	NM	NM
MW-6	27-Jun-13	7049.54		15.60		7033.94		NM	NM	NM	NM	NM
MW-6	25-Sep-13	7049.54		14.92		7034.62		NM	NM	NM	NM	NM
MW-6	14-Jan-14	7049.54		15.17		7034.37		NM	NM	NM	NM	NM
MW-6	04-Apr-14	7049.54		15.20		7034.34		NM	NM	NM	NM	NM
MW-6	10-Sep-14	7049.54		15.06		7034.48		NM	NM	NM	NM	NM
MW-6	03-Dec-14	7049.54		15.66		7033.88		NM	NM	NM	NM	NM
MW-6	27-Mar-15	7049.54		14.09		7035.45		NM	NM	NM	NM	NM
MW-6	08-Dec-15	7049.54		15.21		7034.33		NM	NM	NM	NM	NM
MW-6	02-Jun-16	7049.54		14.92		7034.62		NM	NM	NM	NM	NM
MW-6	20-Oct-16	7049.54		15.41		7034.13		NM	NM	NM	NM	NM
MW-6	26-Jan-17	7049.54		14.69		7034.85		NM	NM	NM	NM	NM
MW-6	07-Aug-17	7064.10		Plugged and Abandoned								
MW-7	06-Mar-09	7062.80		26.34		7036.46		11.40	4.951	2.17	6.50	-3.3
MW-7	10-Sep-09	7062.80		27.23		7035.57		12.61	6.288	1.03	7.05	51.0

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA
BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE
Rio Arriba County, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Water Level Elevation (ft amsl)	Corrected GW Elev. (ft)	Temp. (° C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-7	15-Jan-10	7062.80		27.44		7035.36		11.02	3.820	2.92	7.27	-66.3
MW-7	14-Oct-10	7062.80		27.76		7035.04		12.79	4.047	1.24	7.19	68.6
MW-7	21-Jan-11	7062.80		27.82		7034.98		10.79	4.205	2.22	7.37	42.0
MW-7	12-May-11	7062.80		27.46		7035.34		12.80	4.118	1.73	7.38	-70.4
MW-7	12-Aug-11	7062.80		28.24		7034.56		13.88	4.119	2.90	7.30	112.8
MW-7	16-Nov-11	7062.80		28.38		7034.42		11.24	4.077	2.75	6.32	168.0
MW-7	21-Feb-12	7062.80		28.31		7034.49		NM	NM	NM	NM	NM
MW-7	24-May-12	7062.80		28.34		7034.46		NM	NM	NM	NM	NM
MW-7	10-Sep-12	7062.80		28.69		7034.11		NM	NM	NM	NM	NM
MW-7	04-Dec-12	7062.80		28.86		7033.94		NM	NM	NM	NM	NM
MW-7	26-Mar-13	7062.80		28.33		7034.47		NM	NM	NM	NM	NM
MW-7	27-Jun-13	7062.80		28.97		7033.83		NM	NM	NM	NM	NM
MW-7	25-Sep-13	7062.80		27.78		7035.02		NM	NM	NM	NM	NM
MW-7	14-Jan-14	7062.80		28.61		7034.19		NM	NM	NM	NM	NM
MW-7	04-Apr-14	7062.80		28.62		7034.18		NM	NM	NM	NM	NM
MW-7	10-Sep-14	7062.80		28.58		7034.22		NM	NM	NM	NM	NM
MW-7	03-Dec-14	7062.80		29.02		7033.78		NM	NM	NM	NM	NM
MW-7	27-Mar-15	7062.80		27.76		7035.04		NM	NM	NM	NM	NM
MW-7	08-Dec-15	7062.80		28.62		7034.18		NM	NM	NM	NM	NM
MW-7	02-Jun-16	7062.80		28.34		7034.46		NM	NM	NM	NM	NM
MW-7	20-Oct-16	7062.80		28.79		7034.01		NM	NM	NM	NM	NM
MW-7	26-Jan-17	7062.80		28.24		7034.56		NM	NM	NM	NM	NM
MW-7	07-Aug-17	7064.10		Plugged and Abandoned								
MW-8	06-Mar-09	7063.27		27.49		7035.78		11.91	4.731	2.14	6.40	-4.4
MW-8	10-Sep-09	7063.27		28.14		7035.13		13.53	5.987	1.12	8.51	-93.2

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA
BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE
Rio Arriba County, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Water Level Elevation (ft amsl)	Corrected GW Elev. (ft)	Temp. (° C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-8	15-Jan-10	7063.27		28.39		7034.88		11.43	2.891	1.86	6.68	-162.2
MW-8	15-Oct-10	7063.27		28.70		7034.57		12.80	4.017	1.21	7.04	-39.1
MW-8	21-Jan-11	7063.27		28.80		7034.47		12.30	4.002	1.55	7.08	-91.2
MW-8	12-May-11	7063.27		28.52		7034.75		13.16	3.966	1.60	7.16	-121.2
MW-8	12-Aug-11	7063.27		29.19		7034.08		13.85	4.194	3.45	6.97	-148.3
MW-8	16-Nov-11	7063.27		29.35		7033.92		11.49	4.218	2.57	6.49	-115.4
MW-8	21-Feb-12	7063.27		29.31		7033.96		12.21	4.500	0.88	6.96	-116.0
MW-8	24-May-12	7063.27		29.34		7033.93		13.43	4.402	0.65	6.93	-41.2
MW-8	10-Sep-12	7063.27		29.68		7033.59		12.98	4.499	1.34	7.12	-27.3
MW-8	04-Dec-12	7063.27		29.87		7033.40		12.53	3.045	3.78	7.13	-3.1
MW-8	26-Mar-13	7063.27		29.47		7033.80		12.65	4.449	4.10	6.95	22.0
MW-8	27-Jun-13	7063.27		29.97		7033.30		14.39	6.908	8.14	7.01	-43.6
MW-8	25-Sep-13	7063.27		29.14		7034.13		NM	NM	NM	NM	NM
MW-8	14-Jan-14	7063.27		29.65		7033.62		NM	NM	NM	NM	NM
MW-8	04-Apr-14	7063.27		29.64		7033.63		13.14	0.424	1.70	6.80	-14.9
MW-8	04-Apr-14	7063.27		29.68		7033.59		NM	NM	NM	NM	NM
MW-8	03-Dec-14	7063.27		30.00		7033.27		NM	NM	NM	NM	NM
MW-8	27-Mar-15	7063.27		29.02		7034.25		NM	NM	NM	NM	NM
MW-8	08-Dec-15	7063.27		29.59		7033.68		NM	NM	NM	NM	NM
MW-8	02-Jun-16	7063.27		29.31		7033.96		NM	NM	NM	NM	NM
MW-8	20-Oct-16	7063.27		29.72		7033.55		NM	NM	NM	NM	NM
MW-8	26-Jan-17	7063.27		29.33		7033.94		NM	NM	NM	NM	NM
MW-8	07-Aug-17	7064.10		Plugged and Abandoned								
MW-9	06-Mar-09	7062.60		27.60		7035.00		9.47	5.418	5.12	6.39	-1.8
MW-9	06-Apr-09	7062.60		27.74		7034.86		11.86	5.174	2.24	6.72	25.2
MW-9	10-Sep-09	7062.60		28.19		7034.41		13.10	7.257	0.86	7.03	-129.8

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA
BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE
Rio Arriba County, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Water Level Elevation (ft amsl)	Corrected GW Elev. (ft)	Temp. (° C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-9	15-Jan-10	7062.60		28.42		7034.18		10.89	3.960	2.29	7.13	-187.4
MW-9	15-Oct-10	7062.60		28.74		7033.86		12.85	4.561	1.89	7.17	-74.4
MW-9	21-Jan-11	7062.60		28.85		7033.75		12.67	4.452	1.34	7.16	-90.8
MW-9	12-May-11	7062.60		28.61		7033.99		13.12	4.120	2.31	7.28	-94.1
MW-9	12-Aug-11	7062.60		29.22		7033.38		12.92	4.492	5.42	7.33	-132.7
MW-9	16-Nov-11	7062.60		29.41		7033.19		11.80	4.402	2.67	5.56	-75.1
MW-9	21-Feb-12	7062.60		29.39		7033.21		11.89	4.241	1.37	6.95	-127.0
MW-9	24-May-12	7062.60		29.39		7033.21		13.68	4.470	0.80	7.08	-56.4
MW-9	10-Sep-12	7062.60		29.73		7032.87		13.41	4.439	1.41	7.13	-52.2
MW-9	04-Dec-12	7062.60		29.90		7032.70		12.87	4.374	1.34	7.19	-60.5
MW-9	26-Mar-13	7062.60		29.56		7033.04		12.57	4.396	1.24	6.72	-15.8
MW-9	27-Jun-13	7062.60		30.00		7032.60		20.04	6.761	2.38	7.10	-48.5
MW-9	25-Sep-13	7062.60		29.28		7033.32		13.08	8.437	2.44	7.19	-84.6
MW-9	14-Jan-14	7062.60		29.68		7032.92		12.61	5.160	1.11	NM	-54.8
MW-9	04-Apr-14	7062.60		29.69		7032.91		12.89	0.407	2.81	6.89	-48.2
MW-9	10-Sep-14	7062.60		29.72		7032.88		NM	NM	NM	NM	NM
MW-9	03-Dec-14	7062.60		30.00		7032.60		NM	NM	NM	NM	NM
MW-9	27-Mar-15	7062.60		29.12		7033.48		NM	NM	NM	NM	NM
MW-9	08-Dec-15	7062.60		29.55		7033.05		NM	NM	NM	NM	NM
MW-9	02-Jun-16	7062.60		29.29		7033.31		NM	NM	NM	NM	NM
MW-9	20-Oct-16	7062.60		29.69		7032.91		NM	NM	NM	NM	NM
MW-9	26-Jan-17	7062.60		29.32		7033.28		NM	NM	NM	NM	NM
MW-9	07-Aug-17	7064.10		Plugged and Abandoned								
MW-10	09-Mar-09	7063.27		26.25		7037.02		10.51	4.572	3.44	6.62	15.6
MW-10	10-Sep-09	7063.27		27.10		7036.17		12.62	5.133	1.83	6.97	80.7

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA
BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE
Rio Arriba County, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Water Level Elevation (ft amsl)	Corrected GW Elev. (ft)	Temp. (° C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-10	15-Jan-10	7063.27		27.29		7035.98		10.82	3.210	2.47	7.10	-99.3
MW-10	14-Oct-10	7063.27		27.61		7035.66		11.98	3.811	1.80	7.22	119.2
MW-10	21-Jan-11	7063.27		27.66		7035.61		10.73	3.946	1.78	7.45	90.1
MW-10	12-May-11	7063.27		27.28		7035.99		12.26	3.839	1.34	7.26	84.9
MW-10	12-Aug-11	7063.27		28.08		7035.19		12.84	3.948	4.99	6.62	175.8
MW-10	16-Nov-11	7063.27		28.20		7035.07		10.81	3.912	2.81	6.17	190.7
MW-10	21-Feb-12	7063.27		28.13		7035.14		NM	NM	NM	NM	NM
MW-10	24-May-12	7063.27		28.15		7035.12		NM	NM	NM	NM	NM
MW-10	10-Sep-12	7063.27		28.54		7034.73		NM	NM	NM	NM	NM
MW-10	04-Dec-12	7063.27		28.72		7034.55		NM	NM	NM	NM	NM
MW-10	26-Mar-13	7063.27		28.20		7035.07		NM	NM	NM	NM	NM
MW-10	27-Jun-13	7063.27		28.79		7034.48		NM	NM	NM	NM	NM
MW-10	25-Sep-13	7063.27		27.80		7035.47		NM	NM	NM	NM	NM
MW-10	14-Jan-14	7063.27		28.44		7034.83		NM	NM	NM	NM	NM
MW-10	04-Apr-14	7063.27		28.46		7034.81		NM	NM	NM	NM	NM
MW-10	10-Sep-14	7063.27		28.48		7034.79		NM	NM	NM	NM	NM
MW-10	03-Dec-14	7063.27		28.92		7034.35		NM	NM	NM	NM	NM
MW-10	27-Mar-15	7063.27		27.70		7035.57		NM	NM	NM	NM	NM
MW-10	08-Dec-15	7063.27		28.56		7034.71		NM	NM	NM	NM	NM
MW-10	02-Jun-16	7063.27		28.22		7035.05		NM	NM	NM	NM	NM
MW-10	20-Oct-16	7063.27		28.70		7034.57		NM	NM	NM	NM	NM
MW-10	26-Jan-17	7063.27		28.19		7035.08		NM	NM	NM	NM	NM
MW-10	07-Aug-17	7064.10		Plugged and Abandoned								
MW-11	09-Mar-09	7064.10		28.33		7035.77		11.47	5.730	3.52	6.63	17.1
MW-11	10-Sep-09	7064.10		28.88		7035.22		13.32	7.785	0.67	7.02	61.2

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA
BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE
Rio Arriba County, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Water Level Elevation (ft amsl)	Corrected GW Elev. (ft)	Temp. (° C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-11	15-Jan-10	7064.10		29.13		7034.97		10.20	3.995	1.86	7.16	-59.2
MW-11	14-Oct-10	7064.10		29.44		7034.66		13.00	4.901	1.93	7.20	94.5
MW-11	21-Jan-11	7064.10		29.53		7034.57		11.55	4.937	1.75	7.37	216.0
MW-11	12-May-11	7064.10		29.25		7034.85		12.97	4.701	2.71	7.41	-16.0
MW-11	12-Aug-11	7064.10		29.89		7034.21		12.89	4.872	3.24	7.39	122.2
MW-11	16-Nov-11	7064.10		30.07		7034.03		11.49	4.762	3.61	7.00	307.9
MW-11	21-Feb-12	7064.10		30.04		7034.06		NM	NM	NM	NM	NM
MW-11	24-May-12	7064.10		30.06		7034.04		NM	NM	NM	NM	NM
MW-11	10-Sep-12	7064.10		30.38		7033.72		NM	NM	NM	NM	NM
MW-11	04-Dec-12	7064.10		30.58		7033.52		NM	NM	NM	NM	NM
MW-11	26-Mar-13	7064.10		30.23		7033.87		NM	NM	NM	NM	NM
MW-11	27-Jun-13	7064.10		30.66		7033.44		NM	NM	NM	NM	NM
MW-11	25-Sep-13	7064.10		30.00		7034.10		NM	NM	NM	NM	NM
MW-11	14-Jan-14	7064.10		30.39		7033.71		NM	NM	NM	NM	NM
MW-11	04-Apr-14	7064.10		30.36		7033.74		NM	NM	NM	NM	NM
MW-11	10-Sep-14	7064.10		30.42		7033.68		NM	NM	NM	NM	NM
MW-11	03-Dec-14	7064.10		30.73		7033.37		NM	NM	NM	NM	NM
MW-11	27-Mar-15	7064.10		29.83		7034.27		NM	NM	NM	NM	NM
MW-11	08-Dec-15	7064.10		30.34		7033.76		NM	NM	NM	NM	NM
MW-11	02-Jun-16	7064.10		30.04		7034.06		NM	NM	NM	NM	NM
MW-11	20-Oct-16	7064.10		30.45		7033.65		NM	NM	NM	NM	NM
MW-11	26-Jan-17	7064.10		30.10		7034.00		NM	NM	NM	NM	NM
MW-11	07-Aug-17	7064.10		Plugged and Abandoned								

NOTES: NA NOT AVAILABLE
NM NOT MEASURED

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

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-GRO	TPH-DRO	TPH-MRO
		(µg/L)	*(µg/L)*	*(µg/L)*	*(µg/L)*	*(mg/L)*	*(mg/L)*	*(mg/L)*
Analytical Method		**8021B/ 8260B**	**8021B/ 8260B**	**8021B/ 8260B**	**8021B/ 8260B**	**8015B**	**8015B**	**8015B**
New Mexico WQCC		***5***	***1,000***	***700***	***620***	***NE***	***NE***	***NE***
MW-1	05-Mar-09	**310**	91	5.1	200	2.1	<1.0	<5.0
MW-1	11-Sep-09	**1,500**	1.1	48	170	4.8	<1.0	<5.0
MW-1	15-Jan-10	**630**	<5.0	19	47	2.1	<1.0	<5.0
MW-1	15-Oct-10	**960**	53	37	94	4.1	<1.0	<5.0
MW-1	21-Jan-11	**3,600**	<10	140	160	10	<1.0	<5.0
MW-1	12-May-11	**7,800**	42	270	33	19	<1.0	<5.0
MW-1	12-Aug-11	**280**	<1.0	18	<2.0	1.2	<1.0	<5.0
MW-1	16-Nov-11	**2,700**	<5.0	76	<10	3.9	<1.0	<5.0
MW-1	21-Feb-12	**360**	<1.0	54	<2.0	1.2	<1.0	<5.0
MW-1	24-May-12	**210**	2.1	31	5.1	0.59	<1.0	<5.0
MW-1	10-Sep-12	**54**	<2.0	36	<4.0	0.45	<1.0	<5.0
MW-1	04-Dec-12	<2.0	<2.0	17	<4.0	0.19	<1.0	<5.0
MW-1	26-Mar-13	1.2	<1.0	1.8	<2.0	<0.050	<1.0	<5.0
MW-1	01-Jul-13	1.6	<1.0	6.5	<2.0	0.090	<1.0	<5.0
MW-1	25-Sep-13	**180**	2.9	36	8.8	0.53	<1.0	<5.0
MW-1	14-Jan-14	**14**	<2.0	15	<4.0	0.21	<1.0	<5.0
MW-1	NS - NAPL Present April 2014 through December 2018							
MW-1	26-Mar-19	**340**	62	35	370	6.1	2.1	<5.0
MW-1	25-Sep-19	**88**	9.8	7.7	86	2.0	6.0	<5.0
MW-1	25-Mar-20	**220**	12	16	89	2.3	<1.0	<5.0
MW-1	23-Jun-20	**760**	17	45	280	7.7	<1.0	<5.0
MW-1	23-Sep-20	**9.7**	1.6	3.2	36	0.35	4.7	<5.0
MW-1	23-Nov-20	**110**	3.1	20	130	3.6	1.0	<5.0
MW-2	05-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-2	10-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-2	15-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-2	14-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-2	21-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-2	12-May-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-2	12-Aug-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-2	16-Nov-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-2	14-Aug-17	<1.0	<1.0	<1.0	<1.5	NA	NA	NA

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

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-GRO	TPH-DRO	TPH-MRO
		(µg/L)	*(µg/L)*	*(µg/L)*	*(µg/L)*	*(mg/L)*	*(mg/L)*	*(mg/L)*
Analytical Method		**8021B/ 8260B**	**8021B/ 8260B**	**8021B/ 8260B**	**8021B/ 8260B**	**8015B**	**8015B**	**8015B**
New Mexico WQCC		***5***	***1,000***	***700***	***620***	***NE***	***NE***	***NE***
MW-3	05-Mar-09	**400**	**1,100**	110	**1,300**	8.2	3.4	<5.0
MW-3	11-Sep-09	**380**	27	26	61	4.2	9.6	6.0
MW-3	15-Jan-10	**750**	11	34	<20	3.4	7.0	6.1
MW-3	14-Oct-10	**140**	<1.0	6.8	2.8	0.76	1.9	<5.0
MW-3	21-Jan-11	**280**	<1.0	24	9.1	1.7	3.5	<5.0
MW-3	12-May-11	**980**	<1.0	42	<2.0	3.0	4.8	<5.0
MW-3	12-Aug-11	**51**	<1.0	4.2	<2.0	0.38	<1.0	<5.0
MW-3	16-Nov-11	**63**	<1.0	6.0	<2.0	0.46	3.3	<5.0
MW-3	21-Feb-12	4.8	<1.0	<1.0	<2.0	0.18	<1.0	<5.0
MW-3	24-May-12	**50**	<1.0	3.0	<2.0	0.33	<1.0	<5.0
MW-3	10-Sep-12	**6.2**	<2.0	<2.0	<4.0	0.29	<1.0	<5.0
MW-3	04-Dec-12	<2.0	<2.0	<2.0	<4.0	0.26	<1.0	<5.0
MW-3	26-Mar-13	2.5	<1.0	<1.0	<2.0	0.23	<1.0	<5.0
MW-3	01-Jul-13	<1.0	<1.0	<1.0	<2.0	0.11	<1.0	<5.0
MW-3	25-Sep-13	**30**	<1.0	1.5	3.2	0.23	<1.0	<5.0
MW-3	14-Jan-14	<1.0	<1.0	<1.0	<2.0	0.12	<1.0	<5.0
MW-3	04-Apr-14	<1.0	<1.0	<1.0	<2.0	0.20	<1.0	<5.0
MW-3	26-Sep-14	<1.0	<1.0	<1.0	<2.0	0.095	<1.0	<5.0
MW-3	27-Mar-15	<1.0	<1.0	<1.0	<2.0	0.056	1.1	<5.0
MW-3	15-Sep-15	<1.0	<1.0	<1.0	<1.5	0.130	<1.0	<5.0
MW-3	02-Jun-16	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-3	26-Jan-17	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-3	21-Jun-17	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-3	14-Aug-17	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
MW-4	05-Mar-09	2.7	1.4	<1.0	<2.0	<0.050	<1.0	<5.0
MW-4	06-Apr-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-4	10-Sep-09	**13**	<1.0	<1.0	<2.0	0.051	<1.0	<5.0
MW-4	15-Jan-10	**8.6**	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-4	15-Oct-10	**6.3**	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-4	21-Jan-11	3.6	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-4	12-May-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-4	12-Aug-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-4	16-Nov-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-4	21-Feb-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0

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

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-GRO	TPH-DRO	TPH-MRO
		(µg/L)	*(µg/L)*	*(µg/L)*	*(µg/L)*	*(mg/L)*	*(mg/L)*	*(mg/L)*
Analytical Method		**8021B/ 8260B**	**8021B/ 8260B**	**8021B/ 8260B**	**8021B/ 8260B**	**8015B**	**8015B**	**8015B**
New Mexico WQCC		***5***	***1,000***	***700***	***620***	***NE***	***NE***	***NE***
MW-4	24-May-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-4	04-Apr-14	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-4	14-Aug-17	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
MW-5	05-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-5	10-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-5	15-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-5	14-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-5	21-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-5	12-May-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-5	12-Aug-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-5	16-Nov-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-5	14-Aug-17	Unable to Sample - Well Obstructed						
MW-6	06-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-6	10-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-6	15-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-6	15-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-6	21-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-6	12-May-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-6	12-Aug-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-6	16-Nov-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-6	07-Aug-17	Plugged and Abandoned						
MW-7	06-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-7	10-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-7	15-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-7	14-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-7	21-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-7	12-May-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-7	12-Aug-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-7	16-Nov-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-7	07-Aug-17	Plugged and Abandoned						
MW-8	06-Mar-09	**160**	170	12	350	2.1	1.5	<5.0

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VOLATILE ORGANICS AND PETROLEUM HYDROCARBONS
BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-GRO	TPH-DRO	TPH-MRO
		(µg/L)	*(µg/L)*	*(µg/L)*	*(µg/L)*	*(mg/L)*	*(mg/L)*	*(mg/L)*
Analytical Method		**8021B/ 8260B**	**8021B/ 8260B**	**8021B/ 8260B**	**8021B/ 8260B**	**8015B**	**8015B**	**8015B**
New Mexico WQCC		***5***	***1,000***	***700***	***620***	***NE***	***NE***	***NE***
MW-8	11-Sep-09	**1,200**	<20	36	75	4.1	1.1	<5.0
MW-8	15-Jan-10	**56**	<1.0	2.3	2.2	0.24	<1.0	<5.0
MW-8	15-Oct-10	**50**	<1.0	1.7	<2.0	0.21	<1.0	<5.0
MW-8	21-Jan-11	**370**	<1.0	4.6	<2.0	0.58	<1.0	<5.0
MW-8	12-May-11	**430**	<1.0	25	<2.0	1.4	<1.0	<5.0
MW-8	12-Aug-11	2.3	<1.0	<1.0	<2.0	0.070	<1.0	<5.0
MW-8	16-Nov-11	1.5	<1.0	<1.0	<2.0	0.17	<1.0	<5.0
MW-8	21-Feb-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-8	24-May-12	<1.0	<1.0	<1.0	<2.0	0.12	<1.0	<5.0
MW-8	10-Sep-12	<1.0	<1.0	<1.0	<2.0	0.16	<1.0	<5.0
MW-8	04-Dec-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-8	26-Mar-13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-8	27-Jun-13	<1.0	<1.0	<1.0	<2.0	0.052	<1.0	<5.0
MW-8	04-Apr-14	<1.0	<1.0	<1.0	<2.0	0.072	<1.0	<5.0
MW-8	07-Aug-17	Plugged and Abandoned						
MW-9	06-Mar-09	**170**	350	49	530	2.5	<1.0	<5.0
MW-9	06-Apr-09	**82**	62	16	210	1.6	<1.0	<5.0
MW-9	10-Sep-09	**46**	<1.0	3.8	19	0.86	<1.0	<5.0
MW-9	15-Jan-10	**62**	<1.0	4.2	12	0.49	<1.0	<5.0
MW-9	15-Oct-10	**53**	<1.0	2.3	<2.0	0.22	<1.0	<5.0
MW-9	21-Jan-11	**390**	<1.0	5.1	<2.0	0.41	<1.0	<5.0
MW-9	12-May-11	**390**	<1.0	11	<2.0	0.92	<1.0	<5.0
MW-9	12-Aug-11	**120**	<1.0	5.6	<2.0	0.35	<1.0	<5.0
MW-9	16-Nov-11	**200**	<5.0	9.6	<10	0.57	<1.0	<5.0
MW-9	21-Feb-12	**120**	<1.0	4.2	<2.0	0.30	<1.0	<5.0
MW-9	24-May-12	3.8	<1.0	1.4	<2.0	0.076	<1.0	<5.0
MW-9	10-Sep-12	<1.0	<1.0	<1.0	<2.0	0.072	<1.0	<5.0
MW-9	04-Dec-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-9	26-Mar-13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-9	27-Jun-13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-9	25-Sep-13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-9	14-Jan-14	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-9	04-Apr-14	<1.0	<1.0	<1.0	<2.0	0.075	<1.0	<5.0
MW-9	07-Aug-17	Plugged and Abandoned						

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

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-GRO	TPH-DRO	TPH-MRO
		(µg/L)	*(µg/L)*	*(µg/L)*	*(µg/L)*	*(mg/L)*	*(mg/L)*	*(mg/L)*
Analytical Method		**8021B/ 8260B**	**8021B/ 8260B**	**8021B/ 8260B**	**8021B/ 8260B**	**8015B**	**8015B**	**8015B**
New Mexico WQCC		***5***	***1,000***	***700***	***620***	***NE***	***NE***	***NE***
MW-10	09-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-10	10-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-10	15-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-10	14-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-10	21-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-10	12-May-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-10	12-Aug-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-10	16-Nov-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-10	07-Aug-17	Plugged and Abandoned						
MW-11	09-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-11	10-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-11	15-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-11	14-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-11	21-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-11	12-May-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-11	12-Aug-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-11	16-Nov-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-11	07-Aug-17	Plugged and Abandoned						
Downgradient MW-7*	09-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0

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

TABLE 3

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS - WQCC GROUNDWATER STANDARDS (NMAC 20.6.2.3103)

BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE

Rio Arriba County, New Mexico

Well ID	Sample Date	Antimony	Arsenic	Copper	Lead	Selenium	Thallium	Uranium	Fluoride	Chloride	Nitrite-N	Nitrate-N	Sulfate	Total Dissolved Solids (TDS)	Aluminum	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Iron	Manganese	Molybdenum	Nickel	Silver	Zinc	Total Mercury	Cyanide	Phenols	pH	Radium 226/228
Analytical Method		200.8/6020							300.0					254 0C	200.7/6010													245.1	450 0CN	SW-846 9067	4500-H+B	903.1 904.0
NM WQCC Standard		0.006	0.01	1.0	0.015	0.05	0.002	0.03	1.6	250	1.0	10.0	600	1,000	5.0	2.0	0.004	0.75	0.005	0.05	0.05	1.0	0.2	1.0	0.2	0.05	10.0	0.002	0.2	0.005	6 to 9	5.0
		(mg/L)																													--	pCi/L
MW-1	26-Mar-19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.0	**2,300**	NA	NA	NA	NA	NA	NA	NA	NA	0.75	**0.34**	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-1	25-Sep-19	<0.0010	0.0067	0.020	0.0092	0.0014	<0.00050	**0.036**	<0.50	46	<0.50	<0.50	**1,800**	**3,500**	**20 (T)**	0.40	<0.0020	0.082	<0.0020	0.019	0.015	**28 (T)**	**0.68 (T)**	<0.0080	0.027	<0.0050	0.077	<0.00020	<0.00500	**0.028**	7.29	1.056
MW-1	25-Mar-20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.73	**0.52**	NA	NA	NA	NA	NA	NA	<0.0025	NA	NA
MW-1	23-Jun-20	NA	NA	NA	NA	NA	NA	0.015	NA	NA	NA	NA	NA	NA	<0.02	NA	NA	NA	NA	NA	NA	0.63	**0.66**	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-2	25-Mar-20	NA	NA	NA	NA	NA	NA	0.02 (T)	NA	NA	NA	NA	NA	**3,430**	**5.0 (T)**	NA	NA	NA	NA	NA	NA	0.02	0.0044	NA	NA	NA	NA	NA	NA	<0.0025	NA	NA
MW-2	23-Jun-20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**<0.02**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

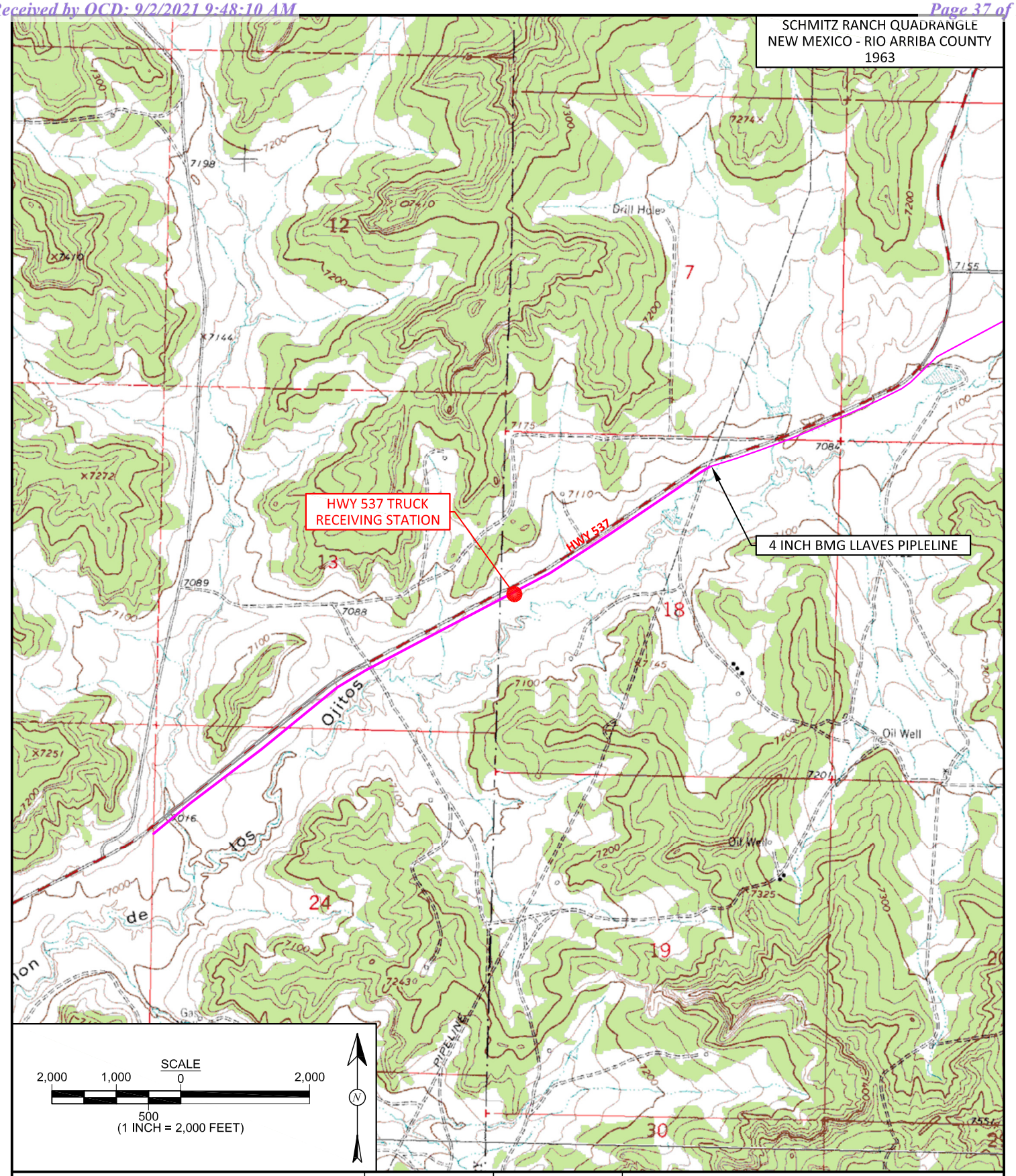
TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS - WQCC GROUNDWATER STANDARDS (NMAC 20.6.2.3103)
BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE
Rio Arriba County, New Mexico

Well ID	Sample Date	Antimony	Arsenic	Copper	Lead	Selenium	Thallium	Uranium	Fluoride	Chloride	Nitrite-N	Nitrate-N	Sulfate	Total Dissolved Solids (TDS)	Aluminum	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Iron	Manganese	Molybdenum	Nickel	Silver	Zinc	Total Mercury	Cyanide	Phenols	pH	Radium 226/228
Analytical Method		200.8/6020							300.0					254 0C	200.7/6010													245.1	450 0CN	SW-846 9067	4500-H+B	903.1 904.0
NM WQCC Standard		0.006	0.01	1.0	0.015	0.05	0.002	0.03	1.6	250	1.0	10.0	600	1,000	5.0	2.0	0.004	0.75	0.005	0.05	0.05	1.0	0.2	1.0	0.2	0.05	10.0	0.002	0.2	0.005	6 to 9	5.0
		(mg/L)																													--	pCi/L

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

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

Figures



DRAWN BY: C. Lameman	**DATE DRAWN:** January 10, 2013
REVISIONS BY: C. Lameman	**DATE REVISED:** April 27, 2020
CHECKED BY: D. Reese	**DATE CHECKED:** April 27, 2020
APPROVED BY: E. McNally	**DATE APPROVED:** April 27, 2020

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FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP

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

FIGURE 2

AERIAL SITE MAP

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

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REVISIONS BY: C. Lameman	**DATE REVISED:** April 27, 2020
CHECKED BY: D. Reese	**DATE CHECKED:** April 27, 2020
APPROVED BY: E. McNally	**DATE APPROVED:** April 27, 2020

LEGEND

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

N

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

FIGURE 3A

GENERAL SITE MAP AND GROUNDWATER GRADIENT MAP MARCH 2020

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

animas environmental services
Farmington, NM • Durango, CO
animasenvironmental.com

DRAWN BY:	DATE DRAWN:
C. Lameman	January 10, 2013
REVISIONS BY:	**DATE REVISED:**
C. Lameman	April 27, 2020
CHECKED BY:	**DATE CHECKED:**
D. Reese	April 27, 2020
APPROVED BY:	**DATE APPROVED:**
E. McNally	April 27, 2020

LEGEND

- MONITORING WELL LOCATION (INSTALLED FEBRUARY 2009)
- PLUGGED AND ABANDONED WELL (AUGUST 2017)
- SOIL BORING LOCATION (SEPTEMBER 2019)
- 7034.61 GROUNDWATER ELEVATIONS IN FEET (AMSL)
- -7034.60- GROUNDWATER ELEVATIONS CONTOURS IN FEET (AMSL)
- FENCE

NOTE: ALL MEASUREMENTS MADE ON MARCH 25, 2020.

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

FIGURE 3B

GENERAL SITE MAP AND GROUNDWATER GRADIENT MAP JUNE 2020

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

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DRAWN BY:	DATE DRAWN:
C. Lameman	January 10, 2013
REVISIONS BY:	**DATE REVISED:**
C. Lameman	August 25, 2021
CHECKED BY:	**DATE CHECKED:**
D. Reese	August 25, 2021
APPROVED BY:	**DATE APPROVED:**
E. McNally	August 25, 2021

LEGEND

- MONITORING WELL LOCATION (INSTALLED FEBRUARY 2009)
- PLUGGED AND ABANDONED WELL (AUGUST 2017)
- SOIL BORING LOCATION (SEPTEMBER 2019)
- 7034.00 GROUNDWATER ELEVATIONS IN FEET (AMSL)
- −7033.75− GROUNDWATER ELEVATIONS CONTOURS IN FEET (AMSL)
- FENCE

NOTE: ALL MEASUREMENTS MADE ON JUNE 23, 2020.

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

FIGURE 3C

GENERAL SITE MAP AND GROUNDWATER GRADIENT MAP SEPTEMBER 2020

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

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DRAWN BY:	DATE DRAWN:
C. Lameman	January 10, 2013
REVISIONS BY:	**DATE REVISED:**
C. Lameman	August 25, 2021
CHECKED BY:	**DATE CHECKED:**
D. Reese	August 25, 2021
APPROVED BY:	**DATE APPROVED:**
E. McNally	August 25, 2021

LEGEND

- MONITORING WELL LOCATION (INSTALLED FEBRUARY 2009)
- PLUGGED AND ABANDONED WELL (AUGUST 2017)
- SOIL BORING LOCATION (SEPTEMBER 2019)
- 7033.49 GROUNDWATER ELEVATIONS IN FEET (AMSL)
- -7033.40- GROUNDWATER ELEVATIONS CONTOURS IN FEET (AMSL)
- —— x —— FENCE

NOTE: ALL MEASUREMENTS MADE ON SEPTEMBER 23, 2020.

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

STATE HWY. 537
PIPELINE
PROPANE TANK
EXTRACTED GROUNDWATER STORAGE TANK
CATTLE GUARD
PIG RECEIVER
MW-11
FENCE
FORMER 4" DIA. BURIED PIPE
FORMER GATE
FORMER 6" DIA. ABOVE GRADE PIPE
FORMER TANKS 1-8
FORMER METER SKID/PUMPS
FORMER PUMPS
FORMER SOIL BERM
FORMER PIPELINE INLET
FORMER 4" DIA. BURIED PIPE
FORMER GATE
FORMER SOIL BERM
MW-5 7033.21
MW-2 7033.49
MW-1 7033.20
BORING-1 (B1)
BORING-2 (B2)
MW-4 7032.84
MW-3 7033.23
MW-10
MW-8
MW-7
MW-9
MW-6
POND
FORMER FENCE
7033.20
7033.00
7032.80
7033.40
GROUNDWATER GRADIENT BETWEEN MW-2 AND MW-4 IS 0.005 FT/FT
LOCATION OF ⅛" CORROSION HOLE, DISCOVERED ON 01/30/09
FORMER TRUCK LOADING STATION

FIGURE 3D

GENERAL SITE MAP AND GROUNDWATER GRADIENT MAP NOVEMBER 2020

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

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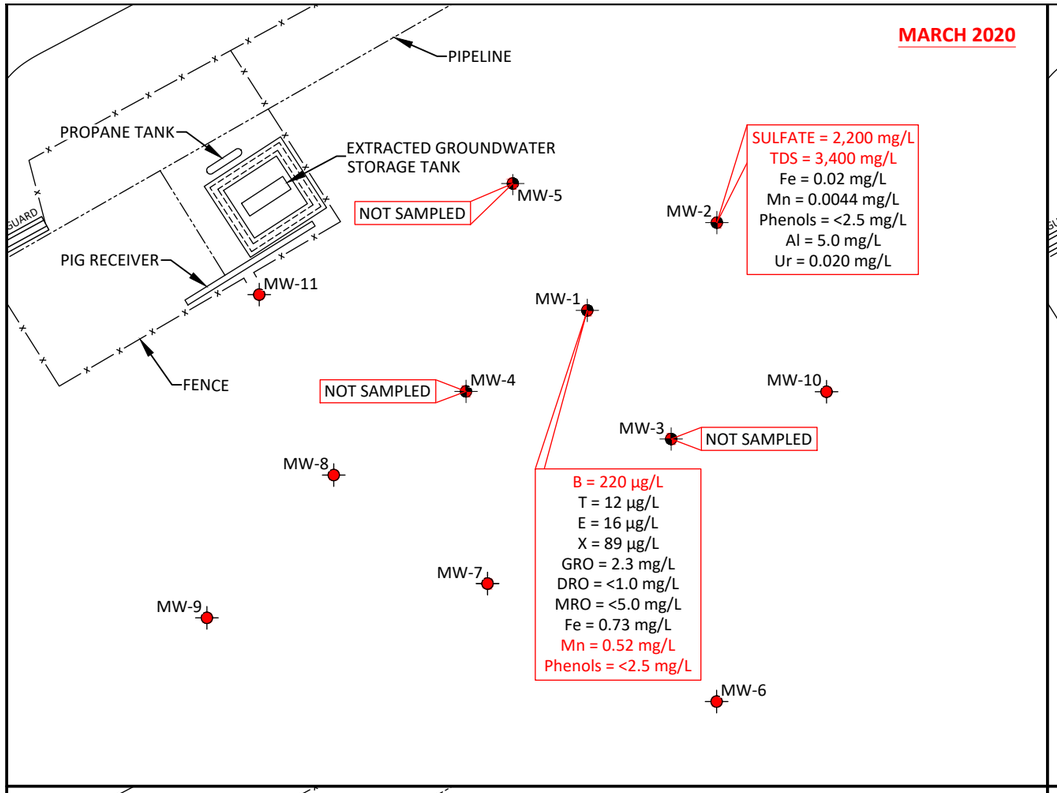
DRAWN BY:	DATE DRAWN:
C. Lameman	January 10, 2013
REVISIONS BY:	**DATE REVISED:**
C. Lameman	August 25, 2021
CHECKED BY:	**DATE CHECKED:**
D. Reese	August 25, 2021
APPROVED BY:	**DATE APPROVED:**
E. McNally	August 25, 2021

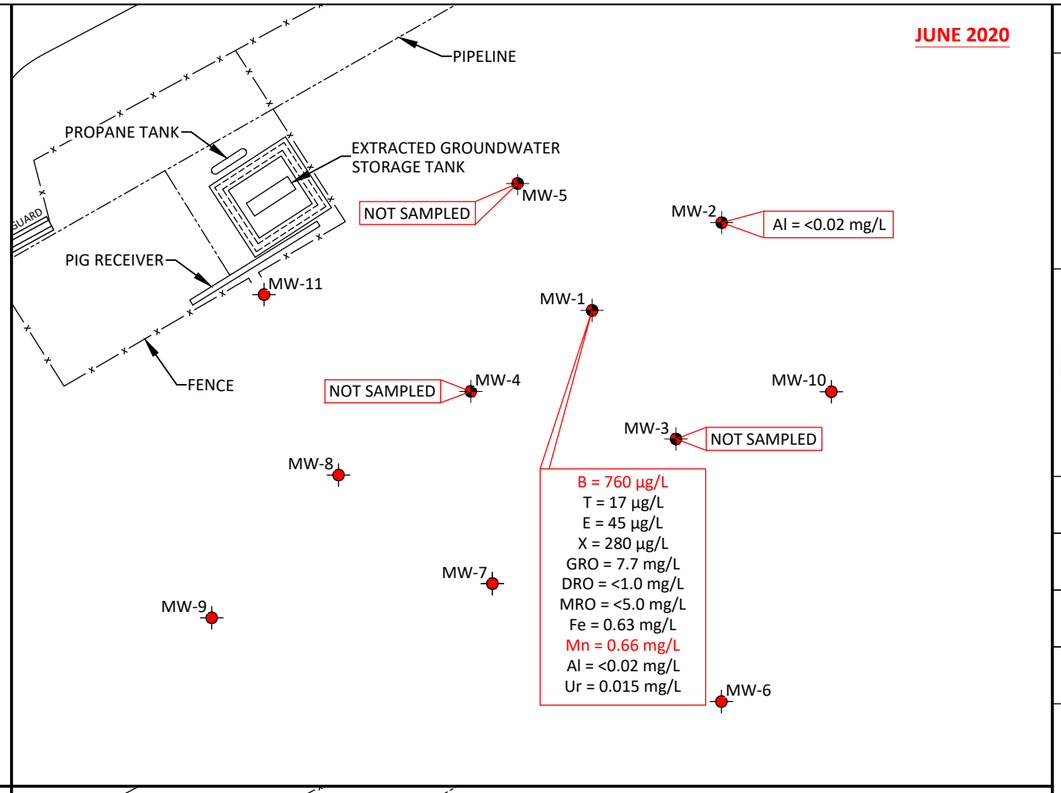
LEGEND

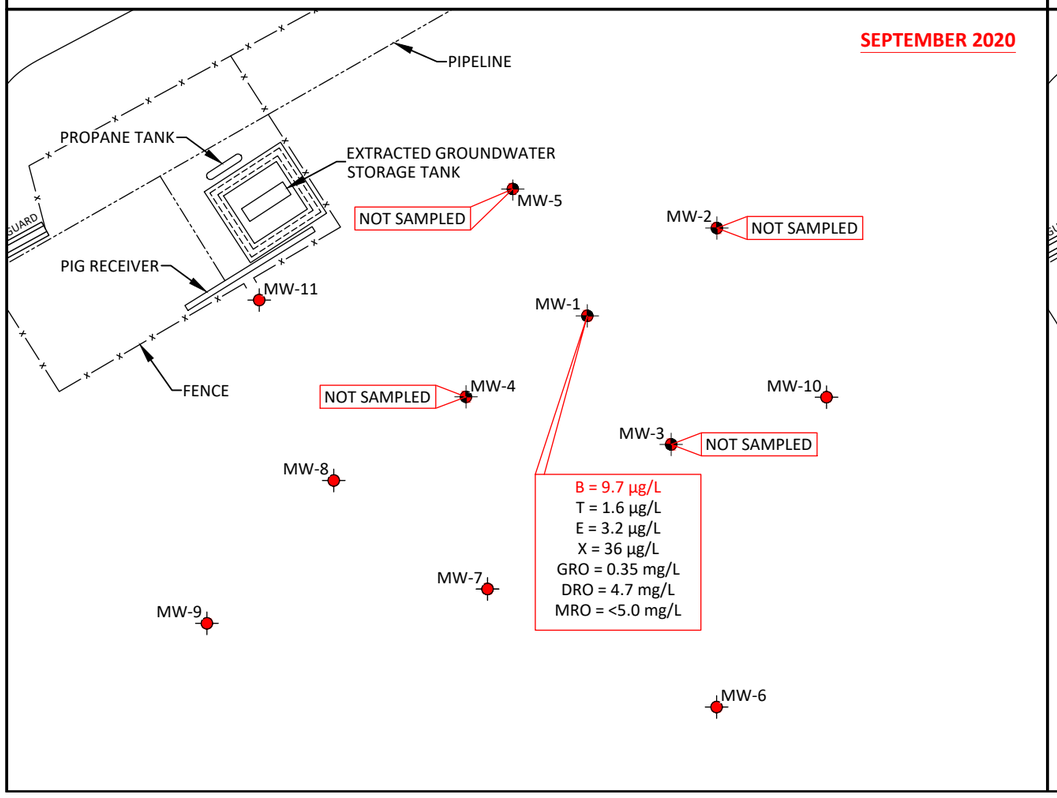
- MONITORING WELL LOCATION (INSTALLED FEBRUARY 2009)
- PLUGGED AND ABANDONED WELL (AUGUST 2017)
- SOIL BORING LOCATION (SEPTEMBER 2019)
- 7033.49 GROUNDWATER ELEVATIONS IN FEET (AMSL)
- -7033.40- GROUNDWATER ELEVATIONS CONTOURS IN FEET (AMSL)
- FENCE

NOTE: ALL MEASUREMENTS MADE ON NOVEMBER 23, 2020.

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







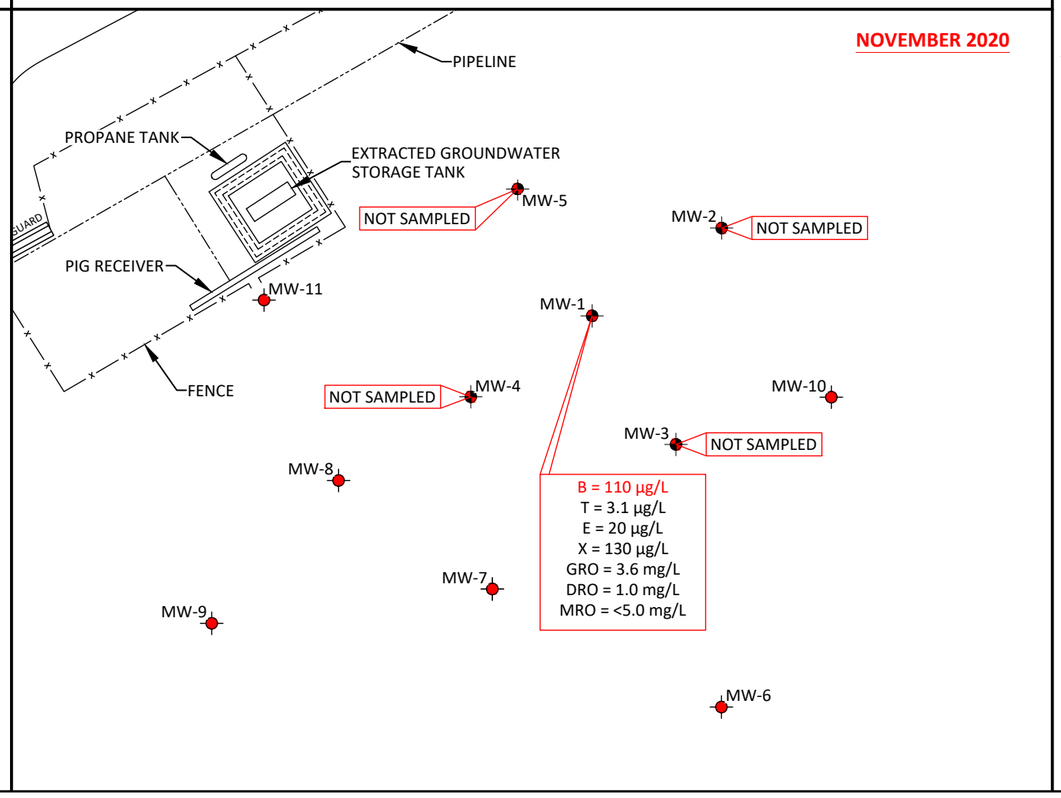


FIGURE 4

2020 GROUNDWATER CONTAMINANT CONCENTRATIONS MAP

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

animas environmental services
Farmington, NM • Durango, CO
animasenvironmental.com

DRAWN BY:	DATE DRAWN:
C. Lameman	January 10, 2013
REVISIONS BY:	**DATE REVISED:**
C. Lameman	August 25, 2021
CHECKED BY:	**DATE CHECKED:**
D. Reese	August 25, 2021
APPROVED BY:	**DATE APPROVED:**
E. McNally	August 25, 2021

LEGEND

⊕	MONITORING WELL LOCATION (INSTALLED FEBRUARY 2009)
⊕	PLUGGED AND ABANDONED WELL (AUGUST 2017)
x	FENCE
B	BENZENE
T	TOLUENE
E	ETHYL-BENZENE
X	XYLENES
GRO	GASOLINE RANGE ORGANICS
DRO	DIESEL RANGE ORGANICS
MRO	MOTOR OIL RANGE ORGANICS
Fe	IRON
Mn	MANGANESE
TDS	TOTAL DISSOLVED SOLIDS
Al	DISSOLVED ALUMINUM
Ur	DISSOLVED URANIUM
µg/L	MICROGRAMS PER LITER (ppb)
mg/L	MILLIGRAMS PER LITER (ppm)
<	BELOW DETECTION LIMIT

NOTE: ALL SAMPLES COLLECTED ON MARCH 25, 2020. ANALYZED PER EPA METHOD 8021B, 8015D, AND SELECT PARAMETERS PER NMAC 20.6.2.3103.

N

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

Appendices

DEPTH TO GROUNDWATER MEASUREMENT FORM

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

Project: Groundwater Monitoring
Site: BMG
Location: Hwy 537 2009 Release
Tech: CL / GB

Project No.:
Date: 3-25-20
Time: 950 - 1113
Form: 1 of 1

Well ID	Time	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Notes / Observations
MW-1	10:46	30.35	30.36	0.01	2" Well Initial Bailer only showed a Sheen
MW-2	10:09	–	30.04	–	2" Well
MW-3	11:07	–	29.56	–	2" Well
MW-4	11:08	–	29.78	–	2" Well
MW-5	11:10	–	30.56	–	2" Well Well Damaged. Casing top gone. Cap lid ok

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

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-1

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

Site: BMG
Location: 2009 Release
Project: Groundwater Monitoring and Sampling
Sampling Technician: CL/GB
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): — **Time:** — *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): — **Time:** — *(taken prior to purging well)*
Final D.T.W. (ft): — **Time:** — *(taken after sample collection)*
If NAPL Present: **D.T.P.:** 30.35 **D.T.W.:** 30.36 **Thickness:** 0.01 **Time:** 10:46 SEE NOTES

Project No.:
Date: 3-25-20
Arrival Time: 10:44
Air Temp: 44°F Cloudy
T.O.C. Elev. (ft): 7064.66
Total Well Depth (ft):

Water Quality Parameters - Recorded During Well Purging

YSI # ~~NA~~

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
	NO WATER QUALITY READINGS						
	SHEEN PRESENT.						
11:00	—	—	—	—	—	—	Samples Collected
							Below "Sheen"
							surface.

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

BTEX per EPA Method 8021 and TPH (GRO, DRO, MRO) per EPA Method 8015 – (5-40mL $HgCl_2$ and 250mL Amber non)

~~See Abatement plan or Chain of Custody for Analytical Analysis and Containers~~ cc

Phenols per EPA Method SW-846-9067-(1L Amber glass H_2SO_4) Dissolved Mn & Fe per EPA Method 6020 – (1-125mL plast. HNO_3 filtered)

Disposal of Purged Water: Onsite Tank. @ 2008
Collected Samples Stored on Ice in Cooler: Yes
Chain of Custody Record Complete: Yes
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments: Purge/Baled off as much as possible off surface of water.
Initial Bailer only shown sheen of NAPL.

Final
DTW = 30.37 Time = 11:04

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-2

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

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

Project No.:
Date: 3-25-20
Arrival Time: 10:06
Air Temp: 44°F Cloudy
T.O.C. Elev. (ft): 7064.65
Total Well Depth (ft): 94.65

Initial D.T.W. (ft): 30.04 **Time:** 10:07 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 30.04 **Time:** 10:09 *(taken prior to purging well)*
Final D.T.W. (ft): 30.26 **Time:** 10:43 *(taken after sample collection)*
If NAPL Present: **D.T.P.:** – **D.T.W.:** – **Thickness:** – **Time:** –

Water Quality Parameters - Recorded During Well Purging

YSI # 2 3-25-20 GB

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
10:14	12.7	3.75	1.22	7.21	190.8	Initial	Sl. Turbid / No Odor
10:16	12.4	3.79	1.08	7.16	186.6	1.0	Turbid Sl. Brown / No Odor
10:18	12.3	3.79	1.18	7.15	180.4	2.0	Turbid Sl Brown / No Odor
10:22	12.3	3.78	0.77	7.17	168.0	3.0	Turbid Sl. Tan / No Odor
10:24	12.4	3.79	1.41	7.16	163.5	4.0	Turbid Sl. Tan / No Odor
10:27	12.4	3.80	1.22	7.16	160.4	5.0	Turbid Sl. Tan / No Odor
10:30	12.3	3.79	1.78	7.17	157.9	6.0	Turbid Sl. Tan / No Odor
10:32	12.2	3.78	1.33	7.17	156.6	7.0	Turbid Sl. Tan / No Odor
10:40	—	—	—	—	—	—	Samples Collected

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

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

Notes/Comments: Calculated Purge Volume ≈ 7 Gallons

DEPTH TO GROUNDWATER MEASUREMENT FORM

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

Project: Groundwater Monitoring
Site: BMG
Location: Hwy 537 2009 Release
Tech: Greg Browne / Corwin Lameman

Project No.:
Date: 6-23-20
Time: 900-1030
Form: 1 of 1

Well ID	Time	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Notes / Observations
MW-1	9:46	30.94	30.97	0.03	2" Well
MW-2	9:02	–	30.65	–	2" Well
MW-3	10:14	–	30.26	–	2" Well
MW-4	10:19	–	30.39	–	2" Well
MW-5	10:22	–	31.09	–	2" Well Damaged Casing - No Well Cap.

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

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-1

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

Site: BMG
Location: 2009 Release
Project: Groundwater Monitoring and Sampling
Sampling Technician: CA/GB
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): — **Time:** ~~9:40~~ a *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): — **Time:** — *(taken prior to purging well)*
Final D.T.W. (ft): — **Time:** — *(taken after sample collection)*
If NAPL Present: **D.T.P.:** 30.94 **D.T.W.:** 30.97 **Thickness:** 0.03 **Time:** 9:40

Project No.:
Date: 6-23-20
Arrival Time: 9:45
Air Temp:
T.O.C. Elev. (ft): 7064.66
Total Well Depth (ft):

Water Quality Parameters - Recorded During Well Purging

YSI # 1 6-22-20 GB

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
	NO WATER QUALITY READINGS						
	DUE TO NAPL PRESENCE						
10:02	—	—	—	—	—	—	Samples Collected

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

USEPA Method 8021 (BTEX) and 8015 (GRO/DRO/MRO) - (5-HgCl2 40mL VOAs and 1-250mL Amber glass non)
~~See Abatement plan or Chain of Custody for Analytical Analysis and Containers~~
USEPA Method 6020 Dissolved Mn + Fe and 200.8/200.7 Dissolved Al + Ur (1-125mL HNO3 Filtered)

Disposal of Purged Water: On ground, No drainage to SW/Arroyo
Collected Samples Stored on Ice in Cooler: Yes
Chain of Custody Record Complete: Yes
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments: Calculated Purge Volume ≈ NA
Attempt to bail off NAPL.
Final DTF: 30.95 DTW: 30.95 Thick: <0.01 @ 10:04
Absorbant Sock installed (temporary).

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-2

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

Site: BMG
Location: 2009 Release
Project: Groundwater Monitoring and Sampling
Sampling Technician: AL/CB
Purge / No Purge: Purge
Well Diameter (in): 2
Project No.:
Date: 6-23-20
Arrival Time: 8:59
Air Temp:
T.O.C. Elev. (ft): 7064.65
Total Well Depth (ft): ~44
Initial D.T.W. (ft): 30.65 **Time:** 9:00 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 30.65 **Time:** 9:02 *(taken prior to purging well)*
Final D.T.W. (ft): 30.68 **Time:** 9:36 *(taken after sample collection)*
If NAPL Present: D.T.P.: – D.T.W.: – Thickness: – Time: –

Water Quality Parameters - Recorded During Well Purging

YSI # 1 6-22-20 CB

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
9:09	14.5	3.77	2.91	7.82	176.3	Initial 0.25	Cloudy / No Odor
~~9:12~~ 9:12	13.9	3.76	0.95	7.44	166.2	1.0	Slt Brown Sed / No Odor
9:14	13.0	3.78	0.96	7.34	163.4	2.0	Brown Sed / No Odor
9:22	13.1	3.78	3.48*	7.27	153.2	3.0	Brown Sed / No Odor
9:28	13.3	3.78	0.78	7.31	149.0	4.0	Brown Sed / No Odor
9:31	13.1	3.77	0.94	7.27	149.5	5.0	Brown Sed / No Odor
9:34	13.1	3.76	1.62	7.24	149.7	6.25	Brown Sed / No Odor
9:35	—	—	—	—	—	—	Samples Collected

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

USEPA Method 200.8 Dissolved Aluminum (1-125 mL filter preserve HNO3)

Disposal of Purged Water: On ground - No drainage to SW drains
Collected Samples Stored on Ice in Cooler: Yes
Chain of Custody Record Complete: Yes
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments: Calculated Purge Volume ≈ 6.5 Gallons.
*Had Bubble or nominally

DEPTH TO GROUNDWATER MEASUREMENT FORM

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

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

Project No.:
Date: 9.23.22
Time: 0931
Form: 1 of 1

Well ID	Time	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Notes / Observations
MW-1	10:05	31.45	31.50	.05	2" Well
MW-2	9:53	- 0 -	31.16	- 0 -	2" Well
MW-3	9:57	- 0 -	30.78	- 0 -	2" Well
MW-4	10:00	- 0 -	30.88	- 0 -	2" Well
MW-5	10:03	- 0 -	31.58	- 0 -	2" Well

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

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-1

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

Site: BMG
Location: 2009 Release
Project: Groundwater Monitoring and Sampling
Sampling Technician: G. Broome
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 31.50 **Time:** 1005 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 31.50 **Time:** 1006 *(taken prior to purging well)*
Final D.T.W. (ft): 30.46 **Time:** 1023 *(taken after sample collection)*
If NAPL Present: **D.T.P.:** 31.45 **D.T.W.:** 31.50 **Thickness:** .05 **Time:** 1005

Project No.:
Date: 9.23.20
Arrival Time: 9:31
Air Temp: 75° F
T.O.C. Elev. (ft): 7064.66
Total Well Depth (ft):

Water Quality Parameters - Recorded During Well Purging

YSI #

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
		.05" NAPL Present					
		NO YSI Readings Taken					
10:20		Samples Collected				2 gal	

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

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

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

Notes/Comments:

DEPTH TO GROUNDWATER MEASUREMENT FORM

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

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

Project No.:
Date: 11-23-20
Time: 9:55 – 10:51
Form: 1 of 1

Well ID	Time	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Notes / Observations
MW-1	10:28	31.51	31.53	0.02	2" Well
MW-2	10:16	–	31.25	–	2" Well
MW-3	10:20	–	30.84	–	2" Well
MW-4	10:23	–	30.95	–	2" Well
MW-5	10:25	–	31.66	–	2" Well

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

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-1

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

Site: BMG
Location: 2009 Release
Project: Groundwater Monitoring and Sampling
Sampling Technician: CL
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): — **Time:** — *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): — **Time:** — *(taken prior to purging well)*
Final D.T.W. (ft): — **Time:** — *(taken after sample collection)*
If NAPL Present: **D.T.P.:** 31.51 **D.T.W.:** 31.53 **Thickness:** 0.02 **Time:** 10:28

Project No.:
Date: 11-23-20
Arrival Time: 10:10
Air Temp: 48F Cloudy Windy
T.O.C. Elev. (ft): 7064.66
Total Well Depth (ft):

Water Quality Parameters - Recorded During Well Purging

YSI # NA

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
	NO WATER QUALITY						
	READINGS DUE TO SHEEN						
10:44	—	—	—	—	—	—	Samples Collected

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

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

Disposal of Purged Water: On Ground - No drainage to Wash
Collected Samples Stored on Ice in Cooler: Yes
Chain of Custody Record Complete: Yes
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments: Calculated Purge Volume =

Final Reading 31.53 DTW @ 10:46

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

April 13, 2020

Elizabeth McNally

Animas Environmental Services
604 Pinon Street
Farmington, NM 87401
TEL: (505) 564-2281
FAX: (505) 324-2022

RE: BMG Hwy 537 2009 Release OrderNo.: 2003C38

Dear Elizabeth McNally:

Hall Environmental Analysis Laboratory received 3 sample(s) on 3/27/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2003C38**
Date Reported: **4/13/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services **Client Sample ID:** MW-1
Project: BMG Hwy 537 2009 Release **Collection Date:** 3/25/2020 11:00:00 AM
Lab ID: 2003C38-001 **Matrix:** AQUEOUS **Received Date:** 3/27/2020 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 6010B: DISSOLVED METALS						Analyst:	**ELS**
Iron	0.73	0.020		mg/L	1	3/31/2020 9:12:55 AM	A67723
Manganese	0.52	0.0020		mg/L	1	3/31/2020 9:12:55 AM	A67723
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**DJF**
Gasoline Range Organics (GRO)	2.3	0.25		mg/L	5	4/4/2020 12:38:18 PM	C67855
Surr: BFB	101	70-130		%Rec	5	4/4/2020 12:38:18 PM	C67855
EPA METHOD 8015M/D: DIESEL RANGE						Analyst:	**JME**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	4/1/2020 6:16:50 PM	51445
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	4/1/2020 6:16:50 PM	51445
Surr: DNOP	109	70-130		%Rec	1	4/1/2020 6:16:50 PM	51445
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst:	**DJF**
Benzene	220	5.0		µg/L	5	4/4/2020 12:38:18 PM	A67855
Toluene	12	5.0		µg/L	5	4/4/2020 12:38:18 PM	A67855
Ethylbenzene	16	5.0		µg/L	5	4/4/2020 12:38:18 PM	A67855
Xylenes, Total	89	7.5		µg/L	5	4/4/2020 12:38:18 PM	A67855
Surr: 1,2-Dichloroethane-d4	109	70-130		%Rec	5	4/4/2020 12:38:18 PM	A67855
Surr: 4-Bromofluorobenzene	95.0	70-130		%Rec	5	4/4/2020 12:38:18 PM	A67855
Surr: Dibromofluoromethane	107	70-130		%Rec	5	4/4/2020 12:38:18 PM	A67855
Surr: Toluene-d8	100	70-130		%Rec	5	4/4/2020 12:38:18 PM	A67855
TOTAL PHENOLICS BY SW-846 9067						Analyst:	**CFC**
Phenolics	ND	2.5		µg/L	1	4/10/2020	51720

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

Qualifiers:

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

Analytical Report
Lab Order **2003C38**
Date Reported: **4/13/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-2
Project: BMG Hwy 537 2009 Release
Collection Date: 3/25/2020 10:40:00 AM
Lab ID: 2003C38-002 **Matrix:** AQUEOUS **Received Date:** 3/27/2020 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CJS**
Sulfate	2200	50	*	mg/L	100	4/3/2020 4:31:41 PM	R67842
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst:	**KS**
Total Dissolved Solids	3430	40.0	*D	mg/L	1	4/3/2020 3:37:00 PM	51480
EPA METHOD 200.7: TOTAL METALS						Analyst:	**pmf**
Aluminum	5.0	0.20	*	mg/L	10	4/1/2020 2:26:01 AM	51439
200.8 ICPMS METALS:TOTAL						Analyst:	**ELS**
Uranium	0.020	0.00050		mg/L	1	4/2/2020 12:24:56 PM	51439
EPA METHOD 6010B: DISSOLVED METALS						Analyst:	**ELS**
Iron	0.020	0.020		mg/L	1	3/31/2020 9:23:05 AM	A67723
Manganese	0.0044	0.0020		mg/L	1	3/31/2020 9:23:05 AM	A67723
TOTAL PHENOLICS BY SW-846 9067						Analyst:	**CFC**
Phenolics	ND	2.5		µg/L	1	4/10/2020	51720

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

Qualifiers:

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

Analytical Report
Lab Order **2003C38**
Date Reported: **4/13/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services **Client Sample ID:** Trip Blank
Project: BMG Hwy 537 2009 Release **Collection Date:**
Lab ID: 2003C38-003 **Matrix:** TRIP BLANK **Received Date:** 3/27/2020 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **DJF**	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	4/4/2020 3:58:33 PM	C67855
Surr: BFB	97.1	70-130		%Rec	1	4/4/2020 3:58:33 PM	C67855
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	4/4/2020 3:58:33 PM	A67855
Toluene	ND	1.0		µg/L	1	4/4/2020 3:58:33 PM	A67855
Ethylbenzene	ND	1.0		µg/L	1	4/4/2020 3:58:33 PM	A67855
Xylenes, Total	ND	1.5		µg/L	1	4/4/2020 3:58:33 PM	A67855
Surr: 1,2-Dichloroethane-d4	99.6	70-130		%Rec	1	4/4/2020 3:58:33 PM	A67855
Surr: 4-Bromofluorobenzene	94.7	70-130		%Rec	1	4/4/2020 3:58:33 PM	A67855
Surr: Dibromofluoromethane	104	70-130		%Rec	1	4/4/2020 3:58:33 PM	A67855
Surr: Toluene-d8	94.0	70-130		%Rec	1	4/4/2020 3:58:33 PM	A67855

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

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2003C38**
13-Apr-20

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

Sample ID: **MB-51439** SampType: **MBLK** TestCode: **EPA Method 200.7: Total Metals**
Client ID: **PBW** Batch ID: **51439** RunNo: **67740**
Prep Date: **3/31/2020** Analysis Date: **4/1/2020** SeqNo: **2338556** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	ND	0.020								

Sample ID: **LLLCS-51439** SampType: **LCSLL** TestCode: **EPA Method 200.7: Total Metals**
Client ID: **BatchQC** Batch ID: **51439** RunNo: **67740**
Prep Date: **3/31/2020** Analysis Date: **4/1/2020** SeqNo: **2338558** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	ND	0.020	0.01000	0	57.5	50	150			

Sample ID: **LCS-51439** SampType: **LCS** TestCode: **EPA Method 200.7: Total Metals**
Client ID: **LCSW** Batch ID: **51439** RunNo: **67740**
Prep Date: **3/31/2020** Analysis Date: **4/1/2020** SeqNo: **2338592** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	0.56	0.020	0.5000	0	112	85	115			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2003C38**
13-Apr-20

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

Sample ID: **MB-51439** SampType: **MBLK** TestCode: **200.8 ICPMS Metals:Total**
Client ID: **PBW** Batch ID: **51439** RunNo: **67783**
Prep Date: **3/31/2020** Analysis Date: **4/2/2020** SeqNo: **2341227** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Uranium	ND	0.00050								

Sample ID: **MSLLLCS-51439** SampType: **LCSLL** TestCode: **200.8 ICPMS Metals:Total**
Client ID: **BatchQC** Batch ID: **51439** RunNo: **67783**
Prep Date: **3/31/2020** Analysis Date: **4/2/2020** SeqNo: **2341229** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Uranium	0.00051	0.00050	0.0005000	0	101	50	150			

Sample ID: **MSLCS-51439** SampType: **LCS** TestCode: **200.8 ICPMS Metals:Total**
Client ID: **LCSW** Batch ID: **51439** RunNo: **67783**
Prep Date: **3/31/2020** Analysis Date: **4/2/2020** SeqNo: **2341231** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Uranium	0.012	0.00050	0.01250	0	99.7	85	115			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2003C38**
13-Apr-20

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

Sample ID: **MB**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBW**	Batch ID: **R67842**	RunNo: **67842**							
Prep Date:	Analysis Date: **4/3/2020**	SeqNo: **2343290**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	ND	0.50								

Sample ID: **LCS**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSW**	Batch ID: **R67842**	RunNo: **67842**							
Prep Date:	Analysis Date: **4/3/2020**	SeqNo: **2343292**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	9.4	0.50	10.00	0	93.7	90	110			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2003C38**
13-Apr-20

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

Sample ID: **MB-51445**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range**
Client ID: **PBW**	Batch ID: **51445**	RunNo: **67765**
Prep Date: **3/31/2020**	Analysis Date: **4/1/2020**	SeqNo: **2340231** 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	0.96		1.000		96.5	70	130			

Sample ID: **LCS-51445**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range**
Client ID: **LCSW**	Batch ID: **51445**	RunNo: **67765**
Prep Date: **3/31/2020**	Analysis Date: **4/1/2020**	SeqNo: **2340233** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.1	1.0	5.000	0	103	70	130			
Surr: DNOP	0.50		0.5000		99.2	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2003C38**
13-Apr-20

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

Sample ID: **mb1** SampType: **MBLK** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW** Batch ID: **A67855** RunNo: **67855**
Prep Date: Analysis Date: **4/4/2020** SeqNo: **2343945** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	9.3		10.00		93.1	70	130			
Surr: Dibromofluoromethane	11		10.00		108	70	130			
Surr: Toluene-d8	9.8		10.00		97.5	70	130			

Sample ID: **100ng btex lcs** SampType: **LCS4** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **BatchQC** Batch ID: **A67855** RunNo: **67855**
Prep Date: Analysis Date: **4/4/2020** SeqNo: **2343946** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	98.5	80	120			
Toluene	21	1.0	20.00	0	105	80	120			
Ethylbenzene	21	1.0	20.00	0	105	80	120			
Xylenes, Total	65	1.5	60.00	0	109	80	120			
Surr: 4-Bromofluorobenzene	9.7		10.00		97.3	70	130			
Surr: Toluene-d8	10		10.00		99.9	70	130			

Sample ID: **2003c38-001a ms** SampType: **MS4** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **MW-1** Batch ID: **A67855** RunNo: **67855**
Prep Date: Analysis Date: **4/4/2020** SeqNo: **2343953** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	310	5.0	100.0	218.3	93.9	80	120			
Toluene	110	5.0	100.0	11.91	95.0	80	120			
Ethylbenzene	110	5.0	100.0	16.10	97.5	80	120			
Xylenes, Total	380	7.5	300.0	89.05	96.6	80	120			
Surr: 4-Bromofluorobenzene	51		50.00		103	70	130			
Surr: Toluene-d8	48		50.00		95.8	70	130			

Sample ID: **2003c38-001a msd** SampType: **MSD4** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **MW-1** Batch ID: **A67855** RunNo: **67855**
Prep Date: Analysis Date: **4/4/2020** SeqNo: **2343954** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	300	5.0	100.0	218.3	86.1	80	120	2.55	20	
Toluene	110	5.0	100.0	11.91	97.5	80	120	2.36	20	

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2003C38**
13-Apr-20

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

Sample ID: **2003c38-001a msd** SampType: **MSD4** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **MW-1** Batch ID: **A67855** RunNo: **67855**
Prep Date: Analysis Date: **4/4/2020** SeqNo: **2343954** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Ethylbenzene	110	5.0	100.0	16.10	98.5	80	120	0.893	20	
Xylenes, Total	380	7.5	300.0	89.05	98.0	80	120	1.07	20	
Surr: 4-Bromofluorobenzene	47		50.00		94.1	70	130	0	0	
Surr: Toluene-d8	48		50.00		95.9	70	130	0	0	

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2003C38**
13-Apr-20

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

Sample ID: **MB-51720**	SampType: **MBLK**	TestCode: **Total Phenolics by SW-846 9067**							
Client ID: **PBW**	Batch ID: **51720**	RunNo: **68030**							
Prep Date: **4/10/2020**	Analysis Date: **4/10/2020**	SeqNo: **2350815**	Units: **µg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Phenolics	ND	2.5								

Sample ID: **LCS-51720**	SampType: **LCS**	TestCode: **Total Phenolics by SW-846 9067**							
Client ID: **LCSW**	Batch ID: **51720**	RunNo: **68030**							
Prep Date: **4/10/2020**	Analysis Date: **4/10/2020**	SeqNo: **2350816**	Units: **µg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Phenolics	18	2.5	20.00	0	89.5	54.7	121			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2003C38**
13-Apr-20

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

Sample ID: **MB**	SampType: **MBLK**	TestCode: **EPA Method 6010B: Dissolved Metals**
Client ID: **PBW**	Batch ID: **A67723**	RunNo: **67723**
Prep Date:	Analysis Date: **3/31/2020**	SeqNo: **2338026** 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**	SampType: **LCS**	TestCode: **EPA Method 6010B: Dissolved Metals**
Client ID: **LCSW**	Batch ID: **A67723**	RunNo: **67723**
Prep Date:	Analysis Date: **3/31/2020**	SeqNo: **2338027** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	0.50	0.020	0.5000	0	99.8	80	120			
Manganese	0.51	0.0020	0.5000	0	101	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 Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2003C38**
13-Apr-20

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

Sample ID: **mb1**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBW**	Batch ID: **C67855**	RunNo: **67855**
Prep Date:	Analysis Date: **4/4/2020**	SeqNo: **2343984** 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	9.9		10.00		98.9	70	130			

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSW**	Batch ID: **C67855**	RunNo: **67855**
Prep Date:	Analysis Date: **4/4/2020**	SeqNo: **2343985** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.42	0.050	0.5000	0	84.8	70	130			
Surr: BFB	10		10.00		101	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2003C38**
13-Apr-20

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

Sample ID: **MB-51480** SampType: **MBLK** TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **PBW** Batch ID: **51480** RunNo: **67826**
Prep Date: **4/1/2020** Analysis Date: **4/3/2020** SeqNo: **2342610** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: **LCS-51480** SampType: **LCS** TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **LCSW** Batch ID: **51480** RunNo: **67826**
Prep Date: **4/1/2020** Analysis Date: **4/3/2020** SeqNo: **2342611** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1020	20.0	1000	0	102	80	120			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **Animas Environmental** Work Order Number: **2003C38** RcptNo: 1

Received By: **Juan Rojas** **3/27/2020 8:10:00 AM** Juan Rojas

Completed By: **Leah Baca** **3/27/2020 3:08:34 PM** Leah Baca

Reviewed By: LB 3/30/20

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☑ NA ☐
5. Sample(s) in proper container(s)? Not frozen Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preserved added to bottles? Yes ☑ No ☑ DAD 3/30/20 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: 5 (<2 or >12 unless noted)
Adjusted? YES
Checked by: DAD 3/30/20

Special Handling (if applicable)

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

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

16. Additional remarks: For metals analysis added ~ 0.4mL HNO3 to sample 002C for pH<2. - DAD 3/30/20

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	-0.6	Good				

Chain-of-Custody Record

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Client: **Animas Environmental Services**	Turn-Around Time: X Standard ☐ Rush
	Project Name: **BMG Hwy 537 2009 Release**
Mailing Address: **PO Box 8**	
Farmington, NM 87499	Project #:
Phone #: 505-564-2281	
Email or Fax#: emcnally@animasenvironmental.com	Project Manager: **Elizabeth McNally**
QA/QC Package: X Standard ☐ Level 4 (Full Validation)	
Accreditation: ☐ NELAP ☐ Other	Sampler: CL GB
☐ EDD (Type)	On Ice: ☑ Yes ☐ No 0.1-0.6
	Sample Temperature: -0.6-0=-0.6

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 2003C38	BTEX (8021)	TPH -GRO/DRO/MRO (8015)	Phenols (SW-846-9067)	Dissolved Manganese and Iron (6020)	Aluminum and Uranium (200.8)	TDS (SM 2540-C)	Sulfate (300.0)		Air Bubbles (Y or N)
3-25-20	11:00	H_2O	MW-1	5- 40 mL VOA 250 mL amber glass 1 -1mL amber glass 1-125mL plastic	5 - $HgCl_2$ 1 - cool 1 - H_2SO_4 1-HNO_3 filtered	-001	X	X	X	X					
3-25-20	10:40	H2O	MW-2	1 -1mL amber glass 1-125mL plastic 1-500mL plastic 1-500mL plastic	1 - H_2SO_4 1-HNO_3 filtered 1- cool 1 - HNO_3	-002			X	X	X	X	X		
		H2O	Trip Blanks	2-40mL VOA	2- HgCl	-003	X	X							

Date	Time	Relinquished by:	Received by:	Date	Time
3/26/20	1715	Corrin Lum	Christa Waeler	3/26/20	1715
3/26/20	1813	Christa Waeler	courier	3/27/20	8:10

Remarks: MW-1 had NAPL sheen.
Not Frozen JR 3/27/20

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

July 10, 2020

Elizabeth McNally

Animas Environmental Services
604 Pinon Street
Farmington, NM 87401
TEL: (505) 564-2281
FAX:

RE: BMG Hwy 537 2009 Release OrderNo.: 2006C02

Dear Elizabeth McNally:

Hall Environmental Analysis Laboratory received 3 sample(s) on 6/24/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2006C02**
Date Reported: **7/10/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-1
Project: BMG Hwy 537 2009 Release
Collection Date: 6/23/2020 10:02:00 AM
Lab ID: 2006C02-001 **Matrix:** AQUEOUS **Received Date:** 6/24/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 6020: DISSOLVED METALS						Analyst:	**DBK**
Uranium	0.015	0.0050		mg/L	1	7/1/2020 6:20:39 PM	A70065
EPA METHOD 6010B: DISSOLVED METALS						Analyst:	**ELS**
Aluminum	ND	0.020		mg/L	1	6/25/2020 11:12:33 AM	A69910
Iron	0.63	0.020		mg/L	1	6/25/2020 11:12:33 AM	A69910
Manganese	0.66	0.0020		mg/L	1	6/25/2020 11:12:33 AM	A69910
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**DJF**
Gasoline Range Organics (GRO)	7.7	0.25		mg/L	5	6/26/2020 8:07:01 PM	G69947
Surr: BFB	99.8	70-130		%Rec	5	6/26/2020 8:07:01 PM	G69947
EPA METHOD 8015M/D: DIESEL RANGE						Analyst:	**BRM**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	6/28/2020 9:20:42 AM	53358
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	6/28/2020 9:20:42 AM	53358
Surr: DNOP	109	70-130		%Rec	1	6/28/2020 9:20:42 AM	53358
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst:	**DJF**
Benzene	760	50		µg/L	50	6/27/2020 1:13:36 PM	SL69957
Toluene	17	5.0		µg/L	5	6/26/2020 8:07:01 PM	SL69947
Ethylbenzene	45	5.0		µg/L	5	6/26/2020 8:07:01 PM	SL69947
Xylenes, Total	280	7.5		µg/L	5	6/26/2020 8:07:01 PM	SL69947
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	5	6/26/2020 8:07:01 PM	SL69947
Surr: 4-Bromofluorobenzene	94.1	70-130		%Rec	5	6/26/2020 8:07:01 PM	SL69947
Surr: Dibromofluoromethane	99.4	70-130		%Rec	5	6/26/2020 8:07:01 PM	SL69947
Surr: Toluene-d8	107	70-130		%Rec	5	6/26/2020 8:07:01 PM	SL69947

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

Qualifiers:

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

Analytical Report
Lab Order **2006C02**
Date Reported: **7/10/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-2
Project: BMG Hwy 537 2009 Release
Collection Date: 6/23/2020 9:35:00 AM
Lab ID: 2006C02-002 **Matrix:** AQUEOUS **Received Date:** 6/24/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 6010B: DISSOLVED METALS						Analyst: **ELS**	
Aluminum	ND	0.020		mg/L	1	6/25/2020 11:15:33 AM	A69910

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2006C02**

10-Jul-20

Client: Animas Environmental Services

Project: BMG Hwy 537 2009 Release

Sample ID: **MB**	SampType: **MBLK**	TestCode: **EPA Method 6020: Dissolved Metals**
Client ID: **PBW**	Batch ID: **A70065**	RunNo: **70065**
Prep Date:	Analysis Date: **7/1/2020**	SeqNo: **2433990** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Uranium	ND	0.0010								

Sample ID: **LLLCS**	SampType: **LCSLL**	TestCode: **EPA Method 6020: Dissolved Metals**
Client ID: **BatchQC**	Batch ID: **A70065**	RunNo: **70065**
Prep Date:	Analysis Date: **7/1/2020**	SeqNo: **2433991** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Uranium	ND	0.0010	0.001000	0	80.8	70	130			

Sample ID: **2006C02-001CMS**	SampType: **MS**	TestCode: **EPA Method 6020: Dissolved Metals**
Client ID: **MW-1**	Batch ID: **A70065**	RunNo: **70065**
Prep Date:	Analysis Date: **7/1/2020**	SeqNo: **2433997** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Uranium	0.060	0.0050	0.05000	0.01535	89.9	75	125			

Sample ID: **LCS**	SampType: **LCS**	TestCode: **EPA Method 6020: Dissolved Metals**
Client ID: **LCSW**	Batch ID: **A70065**	RunNo: **70065**
Prep Date:	Analysis Date: **7/1/2020**	SeqNo: **2433999** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Uranium	0.045	0.0010	0.05000	0	89.9	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 Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2006C02**

10-Jul-20

Client: Animas Environmental Services

Project: BMG Hwy 537 2009 Release

Sample ID: **LCS-53358**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range**
Client ID: **LCSW**	Batch ID: **53358**	RunNo: **69959**
Prep Date: **6/27/2020**	Analysis Date: **6/28/2020**	SeqNo: **2429996** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.4	1.0	5.000	0	107	70	130			
Surr: DNOP	0.52		0.5000		103	70	130			

Sample ID: **MB-53358**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range**
Client ID: **PBW**	Batch ID: **53358**	RunNo: **69959**
Prep Date: **6/27/2020**	Analysis Date: **6/28/2020**	SeqNo: **2429997** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	1.4		1.000		144	70	130			S

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2006C02**
10-Jul-20

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

Sample ID: **mb1**	SampType: **MBLK**	TestCode: **EPA Method 8260: Volatiles Short List**							
Client ID: **PBW**	Batch ID: **SL69947**	RunNo: **69947**							
Prep Date:	Analysis Date: **6/26/2020**	SeqNo: **2429275**	Units: **µg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		107	70	130			
Surr: 4-Bromofluorobenzene	9.6		10.00		96.1	70	130			
Surr: Dibromofluoromethane	11		10.00		106	70	130			
Surr: Toluene-d8	10		10.00		103	70	130			

Sample ID: **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260: Volatiles Short List**							
Client ID: **LCSW**	Batch ID: **SL69947**	RunNo: **69947**							
Prep Date:	Analysis Date: **6/26/2020**	SeqNo: **2429276**	Units: **µg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Toluene	20	1.0	20.00	0	101	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		111	70	130			
Surr: 4-Bromofluorobenzene	9.3		10.00		92.6	70	130			
Surr: Dibromofluoromethane	9.7		10.00		97.4	70	130			
Surr: Toluene-d8	10		10.00		103	70	130			

Sample ID: **mb1**	SampType: **MBLK**	TestCode: **EPA Method 8260: Volatiles Short List**							
Client ID: **PBW**	Batch ID: **SL69957**	RunNo: **69957**							
Prep Date:	Analysis Date: **6/27/2020**	SeqNo: **2429861**	Units: **µg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Surr: 1,2-Dichloroethane-d4	11		10.00		107	70	130			
Surr: 4-Bromofluorobenzene	9.4		10.00		94.4	70	130			
Surr: Dibromofluoromethane	11		10.00		107	70	130			
Surr: Toluene-d8	11		10.00		106	70	130			

Sample ID: **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260: Volatiles Short List**							
Client ID: **LCSW**	Batch ID: **SL69957**	RunNo: **69957**							
Prep Date:	Analysis Date: **6/27/2020**	SeqNo: **2429862**	Units: **µg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	109	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		99.6	70	130			
Surr: 4-Bromofluorobenzene	9.7		10.00		96.9	70	130			
Surr: Dibromofluoromethane	9.9		10.00		99.5	70	130			
Surr: Toluene-d8	10		10.00		104	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2006C02**
10-Jul-20

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

Sample ID: **MB**	SampType: **MBLK**	TestCode: **EPA Method 6010B: Dissolved Metals**
Client ID: **PBW**	Batch ID: **A69910**	RunNo: **69910**
Prep Date:	Analysis Date: **6/25/2020**	SeqNo: **2427621** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	ND	0.020								
Iron	ND	0.020								
Manganese	ND	0.0020								

Sample ID: **LCS**	SampType: **LCS**	TestCode: **EPA Method 6010B: Dissolved Metals**
Client ID: **LCSW**	Batch ID: **A69910**	RunNo: **69910**
Prep Date:	Analysis Date: **6/25/2020**	SeqNo: **2427622** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	0.53	0.020	0.5000	0	105	80	120			
Iron	0.45	0.020	0.5000	0	89.3	80	120			
Manganese	0.45	0.0020	0.5000	0	89.7	80	120			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2006C02**

10-Jul-20

Client: Animas Environmental Services

Project: BMG Hwy 537 2009 Release

Sample ID: **mb2**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBW**	Batch ID: **G69947**	RunNo: **69947**
Prep Date:	Analysis Date: **6/27/2020**	SeqNo: **2429314** 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	9.7		10.00		97.2	70	130			

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSW**	Batch ID: **G69947**	RunNo: **69947**
Prep Date:	Analysis Date: **6/26/2020**	SeqNo: **2429315** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.41	0.050	0.5000	0	81.5	70	130			
Surr: BFB	10		10.00		99.6	70	130			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Animas Environmental Services | Work Order Number: 2006C02 | RcptNo: 1

Received By: **Emily Mocho** 6/24/2020 8:00:00 AM

Completed By: **Juan Rojas** 6/24/2020 8:49:23 AM

Reviewed By: JR 6/24/20

Chain of Custody

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

Log In

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

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

Adjusted? NO

Checked by: EM 6/24/20

Special Handling (if applicable)

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

Person Notified: ____ Date ____

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

Regarding: ____

Client Instructions: ____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.9	Good				

Chain-of-Custody Record

Client: **Animas Environmental Services**

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

Phone #: 505-564-2281

Email or Fax#: emcnally@animasenvironmental.com

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

Accreditation:
☐ NELAP ☐ Other_____
☐ EDD (Type) _____

Turn-Around Time:
X Standard ☐ Rush_____

Project Name:
BMG Hwy 537 2009 Release

Project #:

Project Manager:
Elizabeth McNally

Sampler: CL GB
On Ice: ☑ Yes ☐ No
Sample Temperature: 4.1 - 0.2 = 3.9

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 7006C02	BTEX (8021)	TPH -GRO/DRO/MRO (8015)	Dissolved Manganese and Iron (6020)	Dissolved Aluminum and Uranium (200.8)					Air Bubbles (Y or N)
6-23-20	10:02	H_2O	MW-1	5- 40 mL VOA 250 mL amber glass 1-125mL plastic	5 - HgCl 1 - cool 1-HNO3 filtered	-001	X	X	X	x					
6-23-20	9:35	H2O	MW-2	1-125mL plastic	1-HNO3 filtered	-002				X	ONLY dissolved Al - per corrin LR				6/25/20
		~~H2O~~	~~Trip Blanks~~	~~2-40mL VOA~~	~~2- HgCl~~	~~-003~~ am 6/24/20	~~X~~	~~X~~							

Date:	Time:	Relinquished by:	Received by:	Date	Time
6/23/2020	1552		Christine Walters	6/23/20	1552
6/23/2020	1920	Christine Walters	EM courier	6/24/20	800

Remarks:
Did not receive trip blanks
EM 6/24/20

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

October 02, 2020

Elizabeth McNally

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

RE: BMG Hwy 537 2009 Release OrderNo.: 2009E84

Dear Elizabeth McNally:

Hall Environmental Analysis Laboratory received 2 sample(s) on 9/24/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2009E84**
Date Reported: **10/2/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-1
Project: BMG Hwy 537 2009 Release
Collection Date: 9/23/2020 10:20:00 AM
Lab ID: 2009E84-001 **Matrix:** AQUEOUS **Received Date:** 9/24/2020 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	0.35	0.050		mg/L	1	9/29/2020 2:31:08 AM	G72220
Surr: BFB	89.9	70-130		%Rec	1	9/29/2020 2:31:08 AM	G72220
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: **BRM**	
Diesel Range Organics (DRO)	4.7	1.0		mg/L	1	9/30/2020 12:45:37 PM	55529
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	9/30/2020 12:45:37 PM	55529
Surr: DNOP	104	70-130		%Rec	1	9/30/2020 12:45:37 PM	55529
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	9.7	1.0		µg/L	1	9/29/2020 2:31:08 AM	L72220
Toluene	1.6	1.0		µg/L	1	9/29/2020 2:31:08 AM	L72220
Ethylbenzene	3.2	1.0		µg/L	1	9/29/2020 2:31:08 AM	L72220
Xylenes, Total	36	1.5		µg/L	1	9/29/2020 2:31:08 AM	L72220
Surr: 1,2-Dichloroethane-d4	92.8	70-130		%Rec	1	9/29/2020 2:31:08 AM	L72220
Surr: Dibromofluoromethane	94.1	70-130		%Rec	1	9/29/2020 2:31:08 AM	L72220
Surr: Toluene-d8	100	70-130		%Rec	1	9/29/2020 2:31:08 AM	L72220

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

Qualifiers:

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

Analytical Report
Lab Order **2009E84**
Date Reported: **10/2/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services **Client Sample ID:** Trip Blank
Project: BMG Hwy 537 2009 Release **Collection Date:**
Lab ID: 2009E84-002 **Matrix:** TRIP BLANK **Received Date:** 9/24/2020 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	ND	1.0		µg/L	1	9/27/2020 9:48:34 PM	R72182
Toluene	ND	1.0		µg/L	1	9/27/2020 9:48:34 PM	R72182
Ethylbenzene	ND	1.0		µg/L	1	9/27/2020 9:48:34 PM	R72182
Xylenes, Total	ND	1.5		µg/L	1	9/27/2020 9:48:34 PM	R72182
Surr: 1,2-Dichloroethane-d4	91.6	70-130		%Rec	1	9/27/2020 9:48:34 PM	R72182
Surr: Dibromofluoromethane	105	70-130		%Rec	1	9/27/2020 9:48:34 PM	R72182
Surr: Toluene-d8	101	70-130		%Rec	1	9/27/2020 9:48:34 PM	R72182

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2009E84**

02-Oct-20

Client: Animas Environmental Services

Project: BMG Hwy 537 2009 Release

Sample ID: **LCS-55529**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range**
Client ID: **LCSW**	Batch ID: **55529**	RunNo: **72261**
Prep Date: **9/29/2020**	Analysis Date: **9/30/2020**	SeqNo: **2535525** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.3	1.0	5.000	0	107	70	130			
Surr: DNOP	0.50		0.5000		100	70	130			

Sample ID: **MB-55529**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range**
Client ID: **PBW**	Batch ID: **55529**	RunNo: **72261**
Prep Date: **9/29/2020**	Analysis Date: **9/30/2020**	SeqNo: **2535526** 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	0.91		1.000		91.4	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2009E84**
02-Oct-20

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

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **LCSW** Batch ID: **R72182** RunNo: **72182**
Prep Date: Analysis Date: **9/27/2020** SeqNo: **2530705** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	88.9	70	130			
Toluene	20	1.0	20.00	0	97.6	70	130			
Surr: 1,2-Dichloroethane-d4	9.5		10.00		94.7	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	11		10.00		105	70	130			
Surr: Toluene-d8	9.7		10.00		96.9	70	130			

Sample ID: **mb1** SampType: **MBLK** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW** Batch ID: **R72182** RunNo: **72182**
Prep Date: Analysis Date: **9/27/2020** SeqNo: **2530706** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.6		10.00		96.5	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		99.6	70	130			
Surr: Dibromofluoromethane	11		10.00		106	70	130			
Surr: Toluene-d8	10		10.00		102	70	130			

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **LCSW** Batch ID: **L72220** RunNo: **72220**
Prep Date: Analysis Date: **9/28/2020** SeqNo: **2532581** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	90.9	70	130			
Toluene	20	1.0	20.00	0	102	70	130			
Surr: 1,2-Dichloroethane-d4	9.3		10.00		93.4	70	130			
Surr: 4-Bromofluorobenzene	9.3		10.00		93.1	70	130			
Surr: Dibromofluoromethane	9.5		10.00		95.4	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Sample ID: **mb1** SampType: **MBLK** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW** Batch ID: **L72220** RunNo: **72220**
Prep Date: Analysis Date: **9/28/2020** SeqNo: **2532582** 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								

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2009E84**
02-Oct-20

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

Sample ID: **mb1** SampType: **MBLK** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW** Batch ID: **L72220** RunNo: **72220**
Prep Date: Analysis Date: **9/28/2020** SeqNo: **2532582** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		102	70	130			
Surr: 4-Bromofluorobenzene	9.6		10.00		95.6	70	130			
Surr: Dibromofluoromethane	10		10.00		100	70	130			
Surr: Toluene-d8	10		10.00		100	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2009E84**

02-Oct-20

Client: Animas Environmental Services

Project: BMG Hwy 537 2009 Release

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSW**	Batch ID: **G72220**	RunNo: **72220**
Prep Date:	Analysis Date: **9/29/2020**	SeqNo: **2532386** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.37	0.050	0.5000	0	73.2	70	130			
Surr: BFB	8.5		10.00		84.7	70	130			

Sample ID: **mb1**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBW**	Batch ID: **G72220**	RunNo: **72220**
Prep Date:	Analysis Date: **9/28/2020**	SeqNo: **2532387** 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	9.4		10.00		94.3	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 Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **Animas Environmental Se** Work Order Number: **2009E84** RcptNo: **1**

Received By: **Isaiah Ortiz** **9/24/2020 8:30:00 AM** I-Ox

Completed By: **Isaiah Ortiz** **9/24/2020 2:46:15 PM** I-Ox

Reviewed By: JK 9/25/20

Chain of Custody

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

Log In

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

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

Adjusted?

Checked by: CM 9/25/20

Special Handling (if applicable)

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

Person Notified: Date:

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

Regarding:

Client Instructions:

16. Additional remarks:

17. **Cooler Information**

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

Chain-of-Custody Record

Client: **Animas Environmental Services**

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

Phone #: 505-564-2281

Email or Fax#: emcnally@animasenvironmental.com

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

Accreditation:
☐ NELAP ☐ Other_____
☐ EDD (Type) _____

Turn-Around Time:
X Standard ☐ Rush_____

Project Name:
BMG Hwy 537 2009 Release

Project #:

Project Manager:
Elizabeth McNally

Sampler: GB
On Ice: ■ Yes ☐ No
Sample Temperature: 0.6-0.1CF | 0.6 °C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 2009E84	BTEX (8021)	TPH -GRO/DRO/MRO (8015)							Air Bubbles (Y or N)
9.23.20	1020	H_2O	MW-1	5- 40 mL VOA 250 mL amber glass	5 - HgCl2 1 - cool	001	X	X							
		H2O	Trip Blanks	2-40mL VOA	2- HgCl2	002	X	X							

Date:	Time:	Relinquished by:	Received by:	Date Time	Remarks:
9/23/2020	1640	Rory Boone	Christine Walker	9/23/2020 1640	Direct bill to BMG.
9/23/2020	1816	Christine Walker	[illegible]	9/24/20 0830	

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

December 03, 2020

Elizabeth McNally

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

RE: BMG Hwy 537 2009 Release OrderNo.: 2011C44

Dear Elizabeth McNally:

Hall Environmental Analysis Laboratory received 2 sample(s) on 11/25/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2011C44**
Date Reported: **12/3/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-1
Project: BMG Hwy 537 2009 Release
Collection Date: 11/23/2020 10:44:00 AM
Lab ID: 2011C44-001 **Matrix:** AQUEOUS **Received Date:** 11/25/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: **BRM**	
Diesel Range Organics (DRO)	1.0	1.0		mg/L	1	12/1/2020 10:28:40 AM	56699
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/1/2020 10:28:40 AM	56699
Surr: DNOP	115	70-130		%Rec	1	12/1/2020 10:28:40 AM	56699
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	3.6	0.050		mg/L	1	11/30/2020 11:04:19 AM	G73678
Surr: BFB	184	66.7-119	S	%Rec	1	11/30/2020 11:04:19 AM	G73678
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	110	10		µg/L	10	11/30/2020 4:08:47 PM	B73678
Toluene	3.1	1.0		µg/L	1	11/30/2020 11:04:19 AM	B73678
Ethylbenzene	20	1.0		µg/L	1	11/30/2020 11:04:19 AM	B73678
Xylenes, Total	130	2.0		µg/L	1	11/30/2020 11:04:19 AM	B73678
Surr: 4-Bromofluorobenzene	111	80-120		%Rec	1	11/30/2020 11:04:19 AM	B73678

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

Qualifiers:

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

Analytical Report
Lab Order **2011C44**
Date Reported: **12/3/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services **Client Sample ID:** Trip Blank
Project: BMG Hwy 537 2009 Release **Collection Date:**
Lab ID: 2011C44-002 **Matrix:** TRIP BLANK **Received Date:** 11/25/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	11/30/2020 11:27:45 AM	B73678
Toluene	ND	1.0		µg/L	1	11/30/2020 11:27:45 AM	B73678
Ethylbenzene	ND	1.0		µg/L	1	11/30/2020 11:27:45 AM	B73678
Xylenes, Total	ND	2.0		µg/L	1	11/30/2020 11:27:45 AM	B73678
Surr: 4-Bromofluorobenzene	99.0	80-120		%Rec	1	11/30/2020 11:27:45 AM	B73678

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

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2011C44**
03-Dec-20

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

Sample ID: **2011C44-001BMS** SampType: **MS** TestCode: **EPA Method 8015M/D: Diesel Range**
Client ID: **MW-1** Batch ID: **56699** RunNo: **73695**
Prep Date: **11/30/2020** Analysis Date: **12/1/2020** SeqNo: **2598036** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	6.4	1.0	5.000	1.043	107	70	130			
Surr: DNOP	0.61		0.5000		122	70	130			

Sample ID: **2011C44-001BMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range**
Client ID: **MW-1** Batch ID: **56699** RunNo: **73695**
Prep Date: **11/30/2020** Analysis Date: **12/1/2020** SeqNo: **2598037** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.8	1.0	5.000	1.043	94.3	70	130	10.6	20	
Surr: DNOP	0.57		0.5000		114	70	130	0	0	

Sample ID: **LCS-56699** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range**
Client ID: **LCSW** Batch ID: **56699** RunNo: **73695**
Prep Date: **11/30/2020** Analysis Date: **12/1/2020** SeqNo: **2598039** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.4	1.0	5.000	0	109	70	130			
Surr: DNOP	0.59		0.5000		118	70	130			

Sample ID: **MB-56699** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range**
Client ID: **PBW** Batch ID: **56699** RunNo: **73695**
Prep Date: **11/30/2020** Analysis Date: **12/1/2020** SeqNo: **2598040** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	1.1		1.000		110	70	130			

Qualifiers:

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S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2011C44**

03-Dec-20

Client: Animas Environmental Services

Project: BMG Hwy 537 2009 Release

Sample ID: **mb1**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBW**	Batch ID: **G73678**	RunNo: **73678**
Prep Date:	Analysis Date: **11/30/2020**	SeqNo: **2596780** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	20		20.00		99.2	66.7	119			

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSW**	Batch ID: **G73678**	RunNo: **73678**
Prep Date:	Analysis Date: **11/30/2020**	SeqNo: **2596781** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.54	0.050	0.5000	0	108	72.5	114			
Surr: BFB	23		20.00		116	66.7	119			

Sample ID: **2011c44-001ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **MW-1**	Batch ID: **G73678**	RunNo: **73678**
Prep Date:	Analysis Date: **11/30/2020**	SeqNo: **2596788** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	6.0	0.050	0.5000	3.624	466	67.3	116			S
Surr: BFB	67		20.00		333	66.7	119			S

Sample ID: **2011c44-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **MW-1**	Batch ID: **G73678**	RunNo: **73678**
Prep Date:	Analysis Date: **11/30/2020**	SeqNo: **2596789** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	5.2	0.050	0.5000	3.624	322	67.3	116	12.9	20	S
Surr: BFB	46		20.00		230	66.7	119	0	0	S

Qualifiers:

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ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2011C44**
03-Dec-20

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

Sample ID: **mb1**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBW**	Batch ID: **B73678**	RunNo: **73678**
Prep Date:	Analysis Date: **11/30/2020**	SeqNo: **2596795** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	20		20.00		98.2	80	120			

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSW**	Batch ID: **B73678**	RunNo: **73678**
Prep Date:	Analysis Date: **11/30/2020**	SeqNo: **2596796** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	93.2	80	120			
Toluene	19	1.0	20.00	0	97.0	80	120			
Ethylbenzene	19	1.0	20.00	0	97.3	80	120			
Xylenes, Total	58	2.0	60.00	0	97.3	80	120			
Surr: 4-Bromofluorobenzene	20		20.00		102	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 Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **Animas Environmental Services** Work Order Number: **2011C44** RcptNo: 1

Received By: **Sean Livingston** **11/25/2020 8:00:00 AM** Sean Livingston

Completed By: **Desiree Dominguez** **11/25/2020 8:51:12 AM** DD

Reviewed By: JR 11/25/20

Chain of Custody

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

Log In

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

# of preserved bottles checked for pH: (<2 or >12 unless noted)
Adjusted?
Checked by: SGL 11/25/20

Special Handling (if applicable)

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

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.2	Good	Yes			

Chain-of-Custody Record

Client: **Animas Environmental Services**

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

Phone #: 505-564-2281

Email or Fax#: emcnally@animasenvironmental.com

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

Accreditation:
☐ NELAP ☐ Other_____
☐ EDD (Type) _____

Turn-Around Time:
X Standard ☐ Rush_____

Project Name:
BMG Hwy 537 2009 Release

Project #:

Project Manager:
Elizabeth McNally
Eddie Hubbert

Sampler: ~~GB~~ CL

On Ice: ☑ Yes ☐ No

Sample Temperature: 2.9+0.3=3.2°C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 2011C44	BTEX (8021)	TPH -GRO/DRO/MRO (8015)							Air Bubbles (Y or N)
11-23-20	16:44	H_2O	MW-1	5- 40 mL VOA 250 mL amber glass	5 - HgCl2 1 - cool	-001	X	X							
		H2O	Trip Blanks	2-40mL VOA	2- HgCl2	-002	X	X							

Date:	Time:	Relinquished by:	Received by:	Date	Time
11-24-20	1045		SGL courier	11/25/20	8:00
Date:	Time:	Relinquished by:	Received by:	Date	Time

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

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 46056

CONDITIONS

Operator:	OGRID:
BENSON-MONTIN-GREER DRILLING CORP 4900 College Blvd. Farmington, NM 87402	2096
	Action Number: 46056
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
nvelez	1. Follow recommendations stated within the aforementioned report to conduct groundwater monitoring and sampling in MW-1. a. Quarterly: Volatile organics (USEPA Method 8260) b. Annual: Phenols (SW-846 9067) and dissolved manganese (USEPA Method 200.7) c. Gauge all wells for depth to groundwater on a quarterly basis d. Measure water quality parameters in all wells on an annual basis e. Replace absorbent sock in MW-1 if needed f. Submit the Annual Monitoring Report to the OCD no later than March 31, 2022	1/3/2022