November 30, 2021

APPROVED
By Nelson Velez at 9:52 am, Jan 03, 2022

Review of 3Q 2021 Groundwater Monitoring Report: Content satisfactory

1. Continue quarterly monitoring of wells that have not yet met the criteria of eight consecutive sampling events with concentrations below WQCC standards.
a. Complete groundwater monitoring and sampling in fourth quarter 2021
b. In the event a measurable thickness of residual LNAPL is observed within MW-7, hand bail the well until all residual LNAPL is removed
c. Submit the Annual Monitoring Report to the OCD no later than March 31, 2022

Zach Stradling
Benson-Montin-Greer Drilling Corp.
4900 College Blvd.
Farmington, New Mexico 87402

Re: Q3 2021 Groundwater Monitoring Report
O-9 Pipeline Release
NMOCD Order Number: AP-31
NMOCD Incident Number: NAUTOFWCO00437
Rio Arriba County, New Mexico

Dear Mr. Stradling:

Animas Environmental Services, LLC (AES) has prepared this report detailing Q3 2021 groundwater monitoring and sampling at the Benson-Montin-Greer Drilling Corporation (BMG) O-9 release location on August 30, 2021. A topographic site location map and an aerial site location map are included as Figures 1 and 2, respectively.

1.0 Site History

1.1 Initial Release and Investigation

Hydrocarbons were discovered in the vicinity of the O-9 pipeline in Santa Fe National Forest by BMG during the summer of 2000. BMG completed removal of approximately 2,800 cubic yards of hydrocarbon-impacted soils and backfilled the excavation with clean soil.

Philip Environmental Services Corporation (Philip) was contracted by BMG to perform a limited subsurface investigation of soil and groundwater from a crude oil pipeline spill. Ten soil borings were completed in August 2000 to assess environmental impacts from the O-9 Line Leak. Five of the borings were converted into monitoring wells (MW-1 through MW-5).

On September 20 and 21, 2001, AMEC Earth & Environmental, Inc. (AMEC) completed further site investigation activities. Seven soil borings were completed, of which three

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were converted into monitor wells (MW-6 through MW-8). August 2000 to October 2001 depth to groundwater measurements and water quality data are summarized and presented in Table 1, and laboratory analytical results are presented in Table 2.

1.2 Abatement Plan

BMG submitted a Stage 1 and Stage 2 abatement plan to New Mexico Oil Conservation Division (NMOCD) on November 28, 2001. Public notice requirements were completed by March 11, 2002. Further information required to complete the abatement plan was submitted to NMOCD on August 26, 2002.

1.3 Groundwater Monitoring and Sampling, April 2019 to Present

AES has completed quarterly groundwater monitoring and sampling at the location from April 2019 to present. Results have been submitted to NMOCD in quarterly reports.

1.4 Soil Boring and Monitor Well Installation, November 2020

AES installed three soil borings (SB-16 through SB-18) at the site to further delineate the dissolved phase contamination at the site in November 2020. Two of the borings were completed as 2-inch monitor wells (MW-9 and MW-10). Soil borings were drilled to approximately 25 feet below ground surface (ft bgs).

The observed lithology was comprised of mainly fine to medium grained sand from the surface down to approximately 14 ft bgs and very low plasticity clay from approximately 14 ft bgs to 25 ft bgs. Weathered sandstone was encountered in SB-17 and SB-18 at approximately 10 and 25 ft bgs, respectively. Evidence of groundwater was observed in SB-17/MW-9 at approximately 18 ft bgs but was not observed in SB-16 or SB-18/MW-10. Visual and olfactory observations did not indicate petroleum hydrocarbon contamination.

Soil samples were collected from 10 and 25 ft bgs in SB-16 and SB-18, and at 5 and 20 ft bgs in SB-17. Benzene, toluene, ethylbenzene, and xylenes (BTEX) and chlorides were not detected in any of the six soil samples that were collected. However, total petroleum hydrocarbons (TPH) (as gasoline-range organics [GRO], diesel-range organics [DRO], and motor oil-range organics [MRO]) was detected in the samples from SB-16 at 10 ft bgs (94 milligrams per kilogram [mg/kg]) and SB-18 at 10 ft bgs (350 mg/kg), which exceeds the NMOCD action level of 100 mg/kg but is **below** the applicable TPH soil screening level (SSL) of 1,000 mg/kg as referenced in New Mexico Environment Department (NMED) *Volume I – Soil Screening Guidance for Human Health Risk Assessment (February*

2019; Revision 2 June 2019). Note that in the sample collected in SB-18 at 25 ft bgs, TPH concentrations were below laboratory detection limits in all three ranges (GRO, DRO, and MRO).

2.0 Groundwater Monitoring and Sampling, August 2021

On August 30, 2021, AES conducted groundwater monitoring and sampling at the site. Ten monitor wells (MW-1 through MW-10) were gauged, and three monitor wells (MW-5, MW-9, and MW-10) were purged and sampled. Monitor well MW-4 did not contain enough water to allow for purging or sampling.

Depth to groundwater was measured in each well at the site and used to calculate purge volumes. Wells were purged of approximately three well volumes or until nearly dry with new disposable bailers. Recharge rates at the site vary between very slow to steady production. The bailers were lowered slowly and carefully into the wells to minimize turbidity. After completing purging, samples were collected with new disposable bailers and transferred into 40-mL vials, which were labeled and stored on ice at less than 6°C in a cooler until delivered to Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico. Groundwater samples were analyzed for BTEX per U.S. Environmental Protection Agency (USEPA) Method 8260 as well as TPH as GRO/DRO/MRO per USEPA Method 8015.

2.1 Groundwater Measurement and Water Quality Data

On August 30, 2021, groundwater elevations had decreased by an average of approximately 0.99 ft since the May 2021 sampling event. Groundwater elevations ranged between 7,433.18 ft above mean sea level (AMSL) in MW-8 and 7,437.49 ft AMSL in MW-3. MW-2 and MW-4 were observed to have insufficient water to obtain water quality measurements. Shallow groundwater was observed to flow to the east-southeast, with an approximate gradient of 0.005 ft/ft. Depth to groundwater measurements and water quality data are summarized in Table 1, and a groundwater elevation contour map is included as Figure 3. Groundwater sample collection forms are attached.

2.2 Groundwater Analytical Results

In August 2021, dissolved phase BTEX concentrations were reported below their respective laboratory detection limits and New Mexico Water Quality Control

Commission (WQCC) standards at each well sampled. All other parameters were non-detect, with the exception of a trace concentration of 1,2,4-trimethylbenzene in MW-5 (2.1 µg/L). TPH was detected in MW-5 with 0.20 milligrams per liter (mg/L) of GRO and 2.0 mg/L of DRO. Laboratory analytical results are included on Table 2, and contaminant concentrations are presented on Figure 4. The laboratory analytical report is included as an attachment.

3.0 Discussion

Groundwater contaminant concentrations in August 2021 remained below WQCC standards for BTEX and other volatile organic compounds (VOCs). Additionally, dissolved phase TPH concentrations from August 2021, soil concentrations from November 2020, and site lithology indicate that the soil-to-groundwater pathway will likely continue to have stable to decreasing TPH groundwater concentrations with TPH soil concentrations remaining below NMED soil screening levels.

Dissolved phase VOC concentrations in MW-1 through MW-3 and MW-5 through MW-8 have now been below WQCC standards for eight consecutive events. Monitor well MW-4 did not contain sufficient volume of water to be sampled.

4.0 Conclusions and Recommendations

AES completed quarterly groundwater monitoring and sampling at the site on August 30, 2021. Depth to water was gauged in monitor wells MW-1 through MW-10, but MW-2 and MW-4 were nearly dry and unable to be sampled. Groundwater samples were collected from monitor wells MW-5, MW-9, and MW-10 for VOCs and TPH (GRO/DRO/MRO) analysis.

AES recommends the following:

- Complete the final quarterly groundwater monitoring event at the site, with final sample collection from MW-9 and MW-10. These two recently installed wells have not had any detectable concentrations of BTEX since installation in 2020, and only trace concentrations of DRO (there is no WQCC standard for TPH/DRO).

If you have any questions about this report, site conditions, or the scheduled work, please feel free to contact Angela Ledgerwood at (720) 537-6650 or Elizabeth McNally at (505) 564-2281.

Respectfully Submitted,

Lany Cupps
Environmental Administrator

Angela Ledgerwood
Senior Project Manager

Elizabeth McNally, P.E.

Tables

1. Groundwater Measurements and Water Quality Data
2. Groundwater Laboratory Analytical Results

Figures

1. Topographic Site Location Map
2. Aerial Site Map
3. Groundwater Elevations and Contours, August 2021
4. Groundwater Contaminant Concentrations, August 2021

Attachments

A. Water Sample Collection Forms (August 2021)
B. Laboratory Analytical Report (Hall No. 2109011)

Cc: Cory Smith (*cory.smith@state.nm.us*)
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1000 Rio Brazos Road
Aztec, NM 87410

Larry D. Gore (*larry.gore@usda.gov*)
U.S. Forest Service
Santa Fe National Forest
P.O. Box 130
Cuba, NM 87013

Shared Documents/O-9 Release/Reports and Workplans/2021.11.30 BMG O-9 Line Leak 3rd Qtr 2021 GW Monitoring Report LC AL EM.docx

Tables

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA
BMG Ojito Canyon (O-9) Release
Rio Arriba County, New Mexico

Well ID	Date Measured	TOC Elevation* (ft amsl)	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thick-ness (ft)	Water Level Elevation (ft amsl)	Correct-ed GW Elev. (ft)	Temp. (°C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-1	30-Aug-00	7507.22		16.69		7490.53		16.9	NM	NM	NM	NM
MW-1	06-Feb-01	7507.22		16.08		7491.14		7.6	0.862	NM	5.54	NM
MW-1	05-Oct-01	7507.22		16.15		7491.07		NM	NM	NM	NM	NM
MW-1	03-Apr-19	7507.22		16.74		7490.48		8.3	493.0	2.23	7.32	107.1
MW-1	16-Aug-19	7507.22		18.54		7488.68		10.1	0.77	2.22	7.52	70.6
MW-1	23-Dec-19	7507.22		20.56		7486.66		9.96	0.803	2.66	7.28	119.2
MW-1	24-Mar-20	7507.22		18.91		7488.31		8.5	0.707	3.54	7.14	136.4
MW-1	18-Jun-20	7507.22		19.98		7487.24		8.9	0.72	3.94	7.17	179.8
MW-1	16-Sep-20	7457.88		22.05		7435.83		NM	NM	NM	NM	NM
MW-1	19-Nov-20	7457.88		22.41		7435.47		NM	NM	NM	NM	NM
MW-1	24-Feb-21	7457.88		21.70		7436.18		NM - Gauge Only				
MW-1	25-May-21	7457.88		20.22		7437.66		9.8	0.502	3.26	7.42	260.5
MW-1	30-Aug-21	7457.88		22.36		7435.52		12.0	0.535	1.36	7.21	63.7
MW-2	30-Aug-00	7506.50		16.62		7489.88		15.2	NM	NM	NM	NM
MW-2	06-Feb-01	7506.50		15.91		7490.59		9.48	1.06	NM	5.9	NM
MW-2	05-Oct-01	7506.50		15.94		7490.56		NA	0.463	6.44	NM	226.7
MW-2	03-Apr-19	7506.50		16.30		7490.20		7.9	448.3	7.02	7.49	72.2
MW-2	16-Aug-19	7506.50		17.81		7488.69		10.8	0.84	1.47	7.40	-67.0
MW-2	23-Dec-19	7506.50		20.41		7486.09		10.16	1.035	2.25	7.13	-67.8
MW-2	24-Mar-20	7506.50		19.12		7487.38		8.5	0.830	3.02	6.97	5.3
MW-2	18-Jun-20	7506.50		19.87		7486.63		10.0	0.82	1.51	6.99	79.5
MW-2	16-Sep-20	7457.24		21.57		7435.67		NM	NM	NM	NM	NM
MW-2	19-Nov-20	7457.24		21.75		7435.49		NM	NM	NM	NM	NM
MW-2	24-Feb-21	7457.24		21.78		7435.46		NM - Gauge Only				
MW-2	25-May-21	7457.24		19.94		7437.30		9.2	0.296	5.85	7.34	259.5
MW-2	30-Aug-21	7457.24		21.71		7435.53		NM - Insufficient Water				
MW-3	30-Aug-00	7508.63		17.21		7491.42		14.3	NM	NM	NM	NM
MW-3	06-Feb-01	7508.63		16.88		7491.75		9.3	84.6	NM	4.97	NM
MW-3	05-Oct-01	7508.63		17.01		7491.62		NM	NM	NM	NM	NM

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Rio Arriba County, New Mexico

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MW-3	03-Apr-19	7508.63		17.83		7490.80		8.6	446.3	1.55	7.25	134.9
MW-3	16-Aug-19	7508.63		20.69		7487.94		10.6	0.672	1.67	7.52	158.1
MW-3	23-Dec-19	7508.63		21.46		7487.17		9.75	0.729	2.18	7.34	156.7
MW-3	24-Mar-20	7508.63		19.72		7488.91		8.8	0.655	0.98	7.01	158.5
MW-3	18-Jun-20	7508.63		21.42		7487.21		8.9	0.658	1.56	7.04	174.6
MW-3	16-Sep-20	7460.72		22.90		7437.82		NM	NM	NM	NM	NM
MW-3	19-Nov-20	7460.72		22.74		7437.98		NM	NM	NM	NM	NM
MW-3	24-Feb-20	7460.72		22.04		7438.68		NM - Gauge Only				
MW-3	25-May-21	7460.72		21.26		7439.46		9.6	0.480	2.26	7.89	277.6
MW-3	30-Aug-21	7460.72		23.23		7437.49		12.3	0.516	0.81	7.28	204.5
MW-4	30-Aug-00	7507.10		15.51		7491.59		14.9	NM	NM	NM	NM
MW-4	06-Feb-01	7507.10		15.05		7492.05		7.02	0.77	NM	5.15	NM
MW-4	05-Oct-01	7507.10		15.14		7491.96		NM	NM	NM	NM	NM
MW-4	03-Apr-19	7507.10		14.62		7492.48		4.6	237.3	6.74	7.44	108.9
MW-4	16-Aug-19	7507.10		16.79		7490.31		NM - Insufficient Water				
MW-4	23-Dec-19	7507.10		16.97		7490.13		NM - Insufficient Water				
MW-4	24-Mar-20	7507.10		16.92		7490.18		NM - Insufficient Water				
MW-4	18-Jun-20	7507.10		16.80		7490.30		NM - Insufficient Water				
MW-4	16-Sep-20	7458.66		16.82		7441.84		NM - Insufficient Water				
MW-4	19-Nov-20	7458.66		17.04		7441.62		NM - Insufficient Water				
MW-4	24-Feb-21	7458.66		17.04		7441.62		NM - Insufficient Water				
MW-4	25-May-21	7458.66		17.05		7441.61		NM - Insufficient Water				
MW-4	30-Aug-21	7458.66		17.10		7441.56		NM - Insufficient Water				
MW-5	30-Aug-00	7503.22		16.66		7486.56		12.6	NM	NM	NM	NM
MW-5	06-Feb-01	7503.22	16.23	17.41	1.18	7485.81	7486.73	NM - NAPL PRESENT				
MW-5	05-Oct-01	7503.22	16.26	16.74	0.48	7486.48	7486.85	NM - NAPL PRESENT				
MW-5	03-Apr-19	7503.22	16.92	16.93	0.01	7486.29	7486.30	NM - NAPL SHEEN PRESENT				
MW-5	16-Aug-19	7503.22	17.74	17.74	0.00	7485.48		NM - NAPL SHEEN PRESENT				
MW-5	23-Dec-19	7503.22	19.25	19.25	0.00	7483.97		NM - NAPL SHEEN PRESENT				

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MW-5	24-Mar-20	7503.22	17.83	17.83	0.00	7485.39		NM - NAPL SHEEN PRESENT				
MW-5	18-Jun-20	7503.22	18.40	18.40	0.00	7484.82		NM - NAPL SHEEN PRESENT				
MW-5	16-Sep-20	7456.42	20.13	20.13	0.00	7436.29		NM - NAPL SHEEN PRESENT				
MW-5	19-Nov-20	7456.42		20.74		7435.68		NM - Insufficient Water				
MW-5	24-Feb-21	7456.42		21.21		7435.21		NM - Insufficient Water				
MW-5	25-May-21	7456.42		19.58		7436.84		9.4	0.635	2.01	7.42	113.5
MW-5	30-Aug-21	7456.42		20.32		7436.10		14.9	0.773	0.97	7.20	-22.4
MW-6	05-Oct-01	NS		15.81				NA	0.544	3.29	NM	213.9
MW-6	03-Apr-19	NS		16.04				7.3	209.5	8.09	7.63	140.5
MW-6	16-Aug-19	NS		17.02				10.6	0.618	6.22	7.61	125.7
MW-6	23-Dec-19	NS		18.28				9.32	0.719	1.77	7.22	48.6
MW-6	24-Mar-20	NS		17.21				7.8	0.437	6.14	7.40	154.2
MW-6	18-Jun-20	NS		17.77				9.0	0.580	2.50	7.30	130.2
MW-6	16-Sep-20	7454.18		19.09		7435.09		11.1	0.484	1.98	7.19	149.7
MW-6	19-Nov-20	7454.18		19.47		7434.71		11.3	0.509	2.18	6.82	149.0
MW-6	24-Feb-21	7454.18		19.59		7434.59		8.3	0.493	2.99	7.56	205.5
MW-6	25-May-21	7454.18		18.52		7435.66		8.3	0.360	4.38	7.45	280.1
MW-6	30-Aug-21	7454.18		19.66		7434.52		11.0	0.498	0.65	7.34	74.6
MW-7	05-Oct-01	NS		16.00				NA	0.547	3.10	NM	-65.9
MW-7	03-Apr-19	NS	16.67	16.68	0.01			NM - NAPL SHEEN PRESENT				
MW-7	16-Aug-19	NS		17.45				NM - NAPL SHEEN PRESENT				
MW-7	23-Dec-19	NS		18.93				NM - NAPL SHEEN PRESENT				
MW-7	24-Mar-20	NS	17.62	17.62	0.00			7.7	1.02	4.52	7.11	112.1
MW-7	18-Jun-20	NS		18.17				NM - NAPL SHEEN PRESENT				
MW-7	16-Sep-20	7455.96		19.16		7436.80		NM - NAPL SHEEN PRESENT				
MW-7	19-Nov-20	7455.96		21.17		7434.79		NM - NAPL SHEEN PRESENT				
MW-7	24-Feb-21	7455.96		20.48		7435.48		8.0	0.668	5.25	7.23	128.9
MW-7	25-May-21	7455.96		19.69		7436.27		9.5	0.704	4.22	7.40	273.8
MW-7	30-Aug-21	7455.96		19.65		7436.31		11.5	0.726	1.03	7.42	-16.5

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MW-8	05-Oct-01	NS		14.06				NM	NM	NM	NM	NM
MW-8	03-Apr-19	NS		14.69				8.8	485.7	4.19	7.36	130.6
MW-8	16-Aug-19	NS		16.71				11.2	0.72	1.44	6.08	85.3
MW-8	23-Dec-19	NS		17.47				10.41	0.798	1.89	7.13	-57.4
MW-8	24-Mar-20	NS		16.38				9.4	0.720	1.59	7.11	-49.8
MW-8	18-Jun-20	NS		17.45				10.2	0.70	1.58	7.18	-15.4
MW-8	16-Sep-20	7452.31		18.67		7433.64		11.6	0.545	1.60	6.97	-19.1
MW-8	19-Nov-20	7452.31		18.60		7433.71		11.4	0.544	1.45	6.78	-30.9
MW-8	24-Feb-21	7452.31		18.08		7434.23		NM - Gauge Only				
MW-8	25-May-21	7452.31		17.46		7434.85		10.0	0.517	4.11	7.67	288.7
MW-8	30-Aug-21	7452.31		19.13		7433.18		11.6	0.531	0.95	7.36	34.0
MW-9	19-Nov-20	7458.38		22.84		7435.54		9.2	0.485	5.24	7.07	184.4
MW-9	24-Feb-21	7458.38		23.16		7435.22		6.6	0.462	4.40	7.01	197.4
MW-9	25-May-21	7458.38		20.53		7437.85		7.9	0.475	4.11	7.38	267.5
MW-9	30-Aug-21	7458.38		22.25		7436.13		9.3	0.471	3.64	7.66	106.6
MW-10	19-Nov-20	7453.59		27.12		7426.47		NM - Insufficient Water				
MW-10	24-Feb-21	7453.59		23.05		7430.54		7.4	283.7	4.01	7.10	44.7
MW-10	25-May-21	7453.59		21.34		7432.25		8.5	0.279	2.51	7.61	191.8
MW-10	30-Aug-21	7453.59		20.09		7433.50		9.4	0.295	1.68	7.91	8.3

NOTES: NA NOT AVAILABLE
NM NOT MEASURED
NS NOT SURVEYED
TOC TOP OF CASING
*September 2020 TOCs were measured at MW-1 through MW-10 using UAS/drone mapping and were not professionally surveyed.

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
BMG Ojito Canyon (O-9) Release
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	GRO	DRO	MRO
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)
Analytical Method		8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	8015B/ 8015D	8015B/ 8015M/D	8015B/ 8015M/D
NM WQCC STANDARD		*5*	*1,000*	*700*	*620*	*NE*	*NE*	*NE*
MW-1	30-Aug-00	<0.5	<0.5	<0.5	<0.5	<2.0	<1.0	<1.0
MW-1	06-Feb-01	<0.5	<0.5	<0.5	<0.5	<2.0	<1.0	<1.0
MW-1	25-Sep-01	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
MW-1	03-Apr-19	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	NA
MW-1	16-Aug-19	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-1	23-Dec-19	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	NA
MW-1	24-Mar-20	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	NA
MW-1	18-Jun-20	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	NA
MW-2	30-Aug-00	<0.5	<0.5	<0.5	2.1	<2.0	<1.0	<1.0
MW-2	06-Feb-01	<0.5	<0.5	<0.5	<0.5	<2.0	<1.0	<1.0
MW-2	05-Oct-01	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
MW-2	03-Apr-19	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	NA
MW-2	16-Aug-19	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-2	23-Dec-19	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	NA
MW-2	24-Mar-20	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	NA
MW-2	18-Jun-20	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	NA
MW-3	30-Aug-00	<0.5	<0.5	<0.5	<0.5	<2.0	<1.0	<1.0
MW-3	06-Feb-01	<0.5	<0.5	<0.5	<0.5	<2.0	<1.0	<1.0
MW-3	25-Sep-01	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
MW-3	03-Apr-19	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	NA
MW-3	16-Aug-19	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-3	23-Dec-19	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	NA
MW-3	24-Mar-20	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	NA
MW-3	18-Jun-20	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	NA
MW-4	30-Aug-00	<0.5	<0.5	<0.5	<0.5	<2.0	<1.0	<1.0
MW-4	06-Feb-01	<0.5	<0.5	<0.5	<0.5	<2.0	<1.0	<1.0
MW-4	25-Sep-01	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
MW-4	03-Apr-19	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	NA
MW-5	30-Aug-00	**400**	56	79	260	<2.0	1.6	<1.0
MW-5	03-Apr-19	<2.0	<2.0	<2.0	5.7	2.6	13	NA
MW-5	16-Aug-19	<1.0	<1.0	2.3	13	3.0	20	5.4
MW-5	23-Dec-19	<5.0	<5.0	10	64	12	1,100	NA

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
BMG Ojito Canyon (O-9) Release
Rio Arriba County, New Mexico

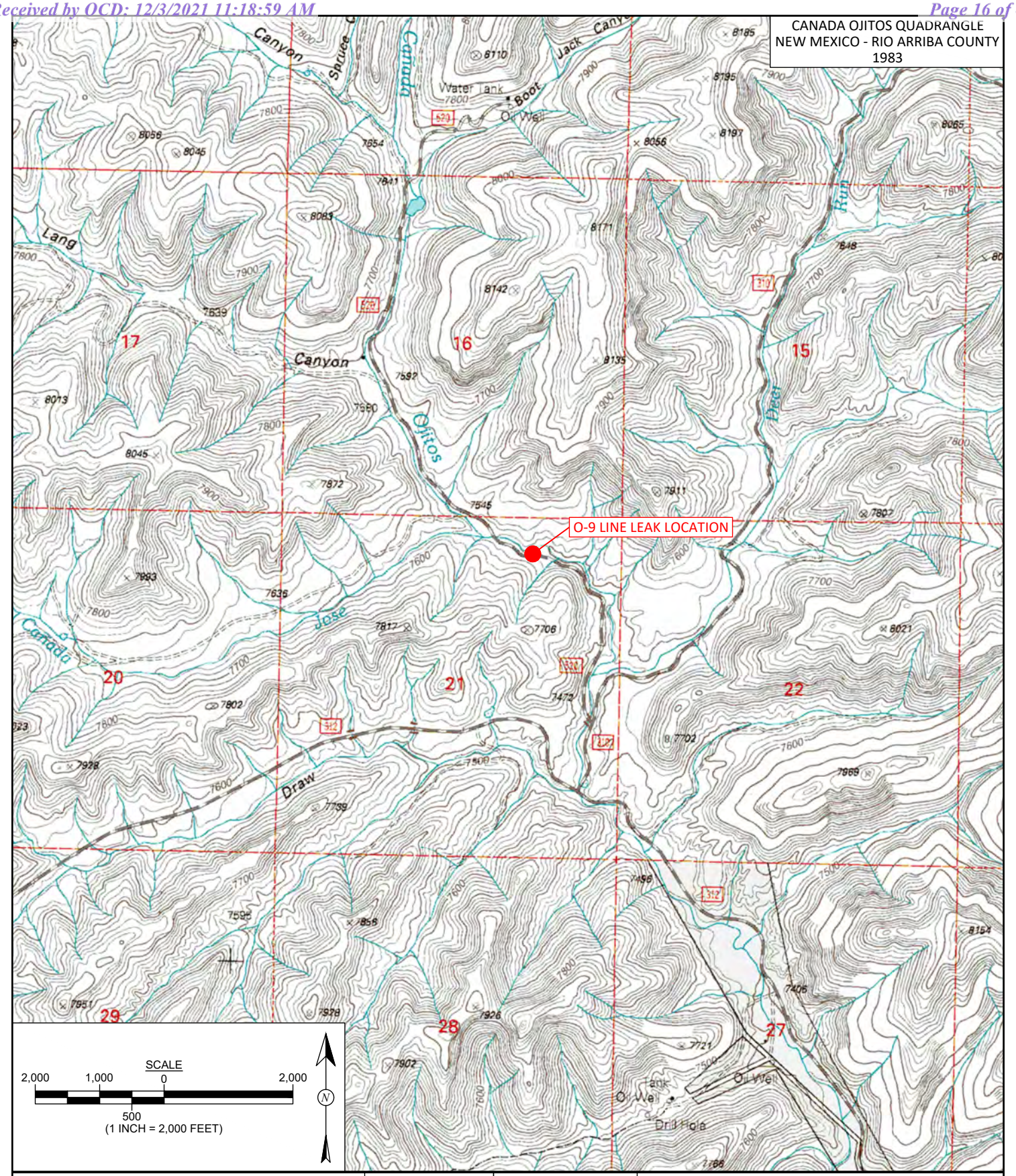
Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	GRO	DRO	MRO
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)
Analytical Method		8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	8015B/ 8015D	8015B/ 8015M/D	8015B/ 8015M/D
NM WQCC STANDARD		*5*	*1,000*	*700*	*620*	*NE*	*NE*	*NE*
MW-5	24-Mar-20	<2.0	<2.0	<2.0	<3.0	1.2	1.6	NA
MW-5	18-Jun-20	<1.0	<1.0	<1.0	<2.0	1.6	15	<5.0
MW-5	16-Sep-20	<1.0	<1.0	<1.0	<1.5	0.34	4.5	NA
MW-5	25-May-21	<1.0	<1.0	<1.0	<1.5	0.64	2.7	<5.0
MW-5	30-Aug-21	<2.0	<2.0	<2.0	<3.0	0.20	2.0	<5.0
MW-6	05-Oct-01	**69**	<0.5	23	41	NA	NA	NA
MW-6	03-Apr-19	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	NA
MW-6	16-Aug-19	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-6	23-Dec-19	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	NA
MW-6	24-Mar-20	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	NA
MW-6	18-Jun-20	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	NA
MW-6	16-Sep-20	<1.0	<1.0	<1.0	<1.5	<0.10	<1.0	NA
MW-6	19-Nov-20	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0
MW-6	24-Feb-21	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0
MW-7	05-Oct-01	**350**	47	87	310	NA	NA	NA
MW-7	03-Apr-19	<1.0	<1.0	<1.0	<1.5	<0.050	6.1	NA
MW-7	16-Aug-19	<1.0	<1.0	<1.0	<2.0	<0.050	8.1	<5.0
MW-7	23-Dec-19	<2.0	<2.0	<2.0	<4.0	<0.10	4.2	NA
MW-7	24-Mar-20	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	NA
MW-7	18-Jun-20	<1.0	<1.0	<1.0	<2.0	<0.050	6.7	<5.0
MW-7	16-Sep-20	<1.0	<1.0	<1.0	<1.5	0.078	5.7	NA
MW-7	19-Nov-20	<1.0	<1.0	<1.0	<1.5	0.054	3.4	<5.0
MW-7	24-Feb-21	<1.0	<1.0	<1.0	<1.5	0.058	2.9	<5.0
MW-8	25-Sep-01	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
MW-8	03-Apr-19	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	NA
MW-8	16-Aug-19	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-8	23-Dec-19	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	NA
MW-8	24-Mar-20	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	NA
MW-8	18-Jun-20	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	NA
MW-8	16-Sep-20	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	NA
MW-8	19-Nov-20	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0
MW-9	19-Nov-20	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
BMG Ojito Canyon (O-9) Release
Rio Arriba County, New Mexico

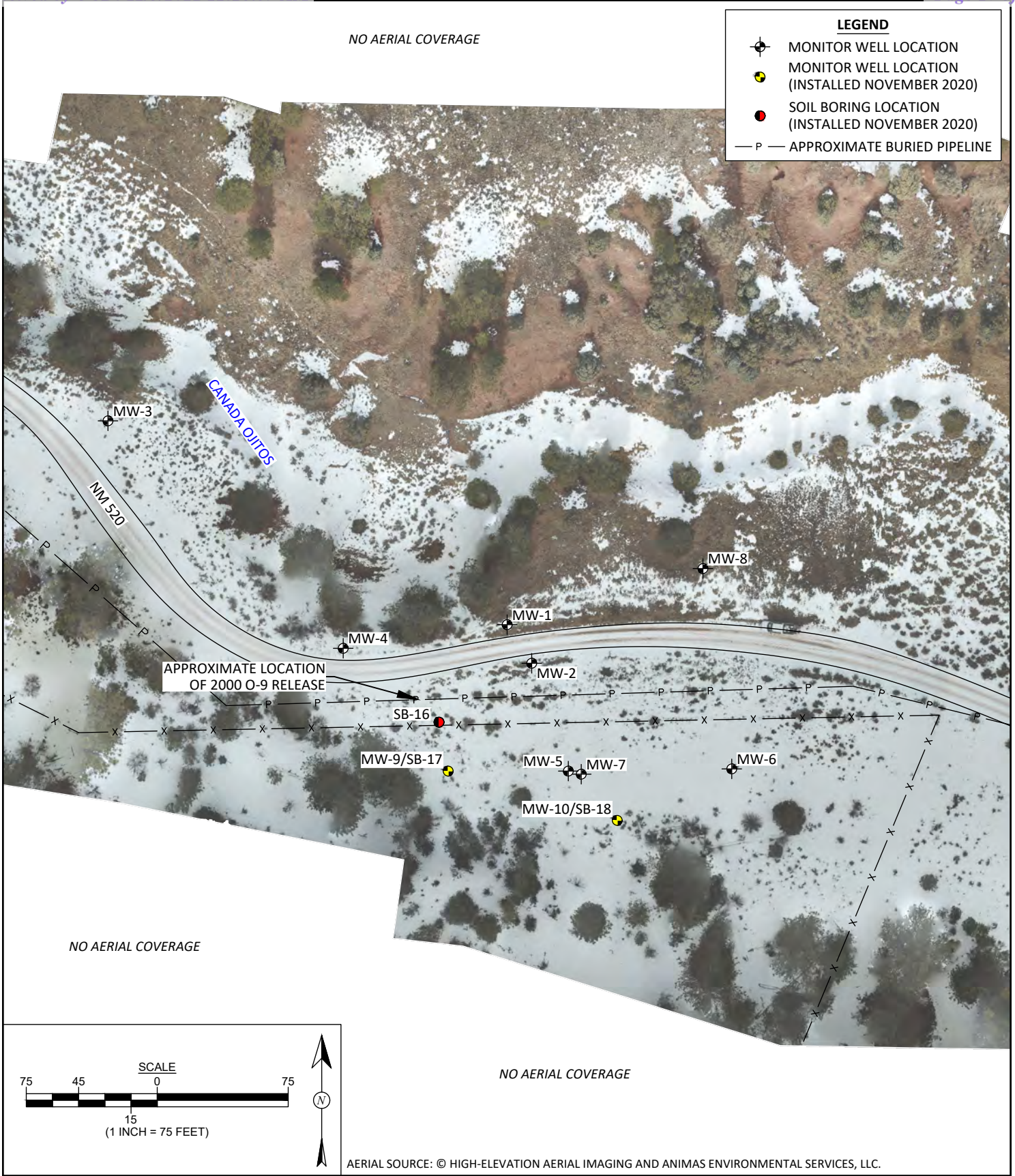
Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	GRO	DRO	MRO
		(µg/L)	*(µg/L)*	*(µg/L)*	*(µg/L)*	*(mg/L)*	*(mg/L)*	*(mg/L)*
Analytical Method		**8021B/ 8260B**	**8021B/ 8260B**	**8021B/ 8260B**	**8021B/ 8260B**	**8015B/ 8015D**	**8015B/ 8015M/D**	**8015B/ 8015M/D**
NM WQCC STANDARD		***5***	***1,000***	***700***	***620***	***NE***	***NE***	***NE***
MW-9	24-Feb-21	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0
MW-9	25-May-21	<1.0	<1.0	<1.0	<1.5	<0.050	1.1	<5.0
MW-9	30-Aug-21	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0
MW-10	24-Feb-21	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0
MW-10	25-May-21	<1.0	<1.0	<1.0	<1.5	<0.050	1.0	<5.0
MW-10	30-Aug-21	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0

NOTES: NA = Not Analyzed
NE = Not Established
NS = Not Sampled
GRO = Gasoline Range Organics
DRO = Diesel Range Organics
MRO = Motor Oil Range Organics

Figures



animas environmental services Farmington, NM • Durango, CO animasenvironmental.com	**DRAWN BY:** C. Lameman	**DATE DRAWN:** June 3, 2019	**FIGURE 1**
	REVISIONS BY: C. Lameman	**DATE REVISED:** September 22, 2021	**TOPOGRAPHIC SITE LOCATION MAP** BENSON-MONTIN-GREER O-9 LINE LEAK LOCATION N½ OF NE¼, SECTION 21, T26N, R1W RIO ARRIBA COUNTY, NEW MEXICO
	CHECKED BY: D. Reese	**DATE CHECKED:** September 22, 2021	
	APPROVED BY: E. McNally	**DATE APPROVED:** September 22, 2021	



AERIAL SOURCE: © HIGH-ELEVATION AERIAL IMAGING AND ANIMAS ENVIRONMENTAL SERVICES, LLC.

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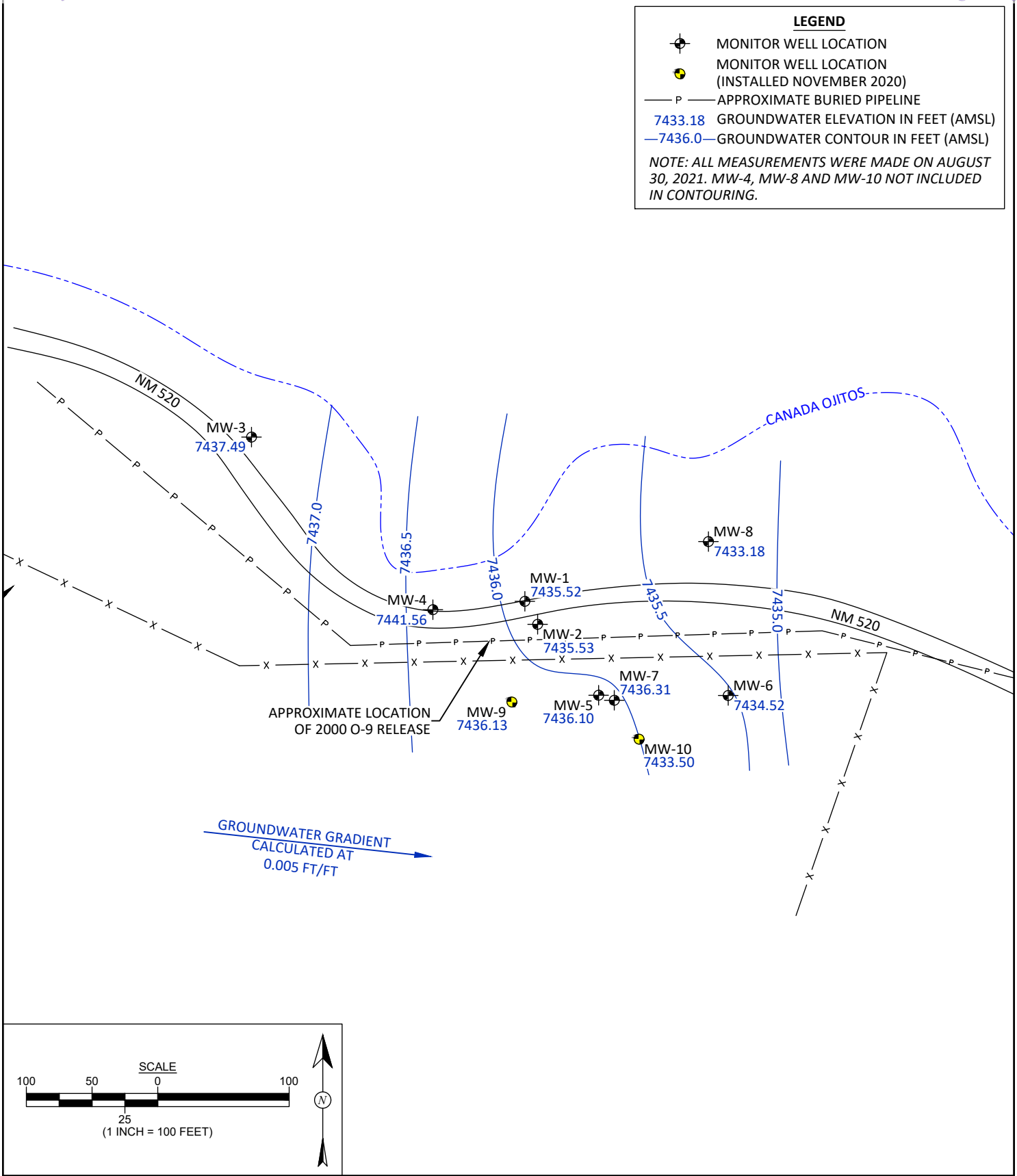
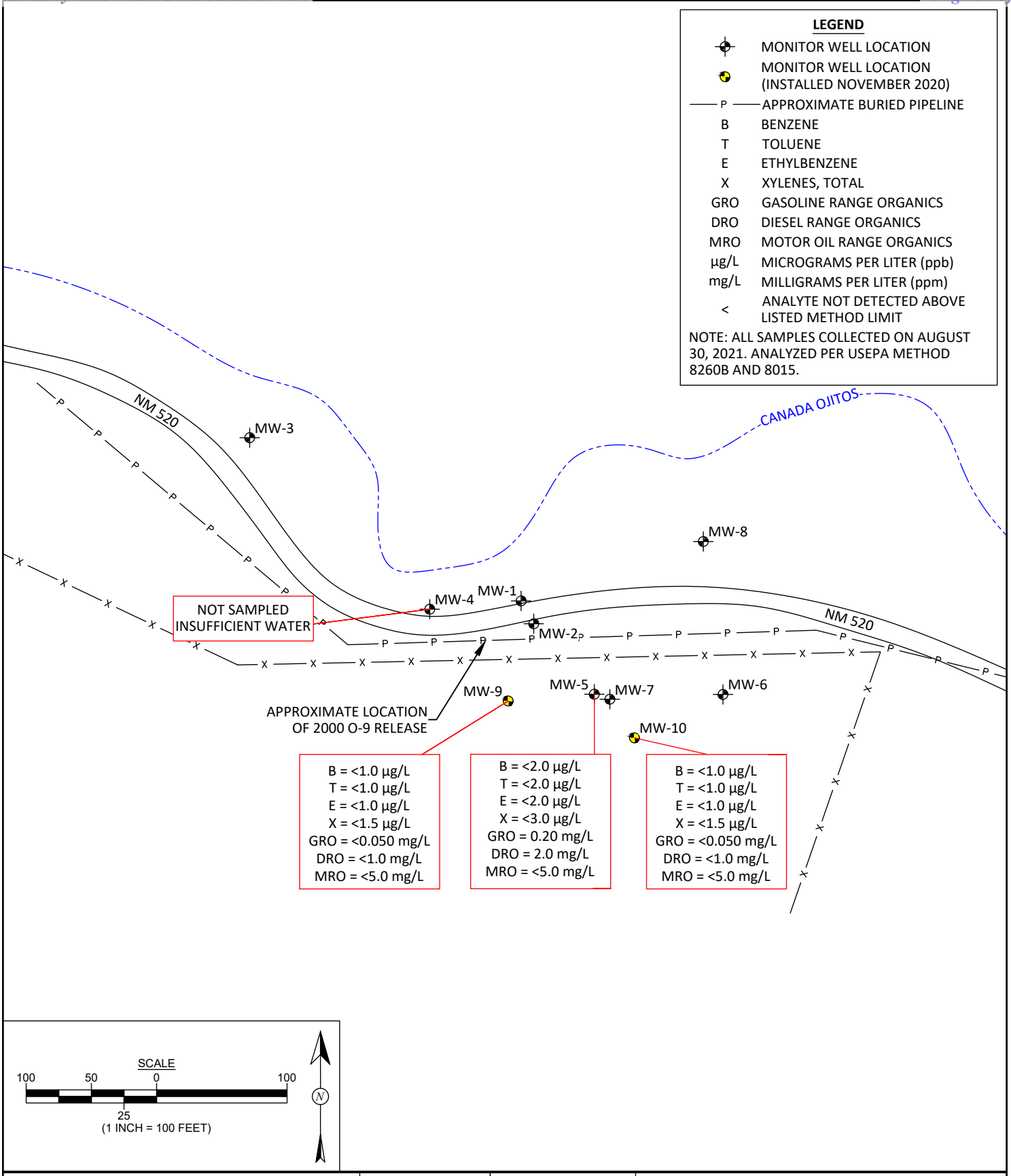
DRAWN BY: C. Lameman	**DATE DRAWN:** June 3, 2019
REVISIONS BY: C. Lameman	**DATE REVISED:** September 22, 2021
CHECKED BY: D. Reese	**DATE CHECKED:** September 22, 2021
APPROVED BY: E. McNally	**DATE APPROVED:** September 22, 2021

FIGURE 2

AERIAL SITE LOCATION MAP AND MONITOR WELL LOCATIONS
BENSON-MONTIN-GREER
O-9 LINE LEAK LOCATION
N½ OF NE¼, SECTION 21, T26N, R1W
RIO ARRIBA COUNTY, NEW MEXICO



animas environmental services Farmington, NM • Durango, CO animasenvironmental.com	**DRAWN BY:** C. Lameman	**DATE DRAWN:** June 3, 2019	**FIGURE 3** **GROUNDWATER ELEVATION CONTOURS AUGUST 2021** BENSON-MONTIN-GREER O-9 LINE LEAK LOCATION N½ OF NE¼, SECTION 21, T26N, R1W RIO ARRIBA COUNTY, NEW MEXICO
	REVISIONS BY: C. Lameman	**DATE REVISED:** September 22, 2021	
	CHECKED BY: L. Cupps	**DATE CHECKED:** September 22, 2021	
	APPROVED BY: E. McNally	**DATE APPROVED:** September 22, 2021	



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DRAWN BY: C. Lameman	**DATE DRAWN:** June 3, 2019
REVISIONS BY: C. Lameman	**DATE REVISED:** September 22, 2021
CHECKED BY: L. Cupps	**DATE CHECKED:** September 22, 2021
APPROVED BY: E. McNally	**DATE APPROVED:** September 22, 2021

FIGURE 4

GROUNDWATER CONTAMINANT CONCENTRATIONS, AUGUST 2021
BENSON-MONTIN-GREER
O-9 LINE LEAK LOCATION
N½ OF NE¼, SECTION 21, T26N, R1W
RIO ARRIBA COUNTY, NEW MEXICO

Attachments

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 and Sampling
Site: BMG
Location: O-9
Tech: CL/JB

Project No.:
Date: 8-20-21
Time: 11:06 – 1426
Form: 1 of 1

Well ID	Time	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Notes / Observations
MW-1	11:48	–	22.36	–	
MW-2	12:02	–	21.71	–	
MW-3	11:24	–	23.23	–	
MW-4	11:40	–	17.10	–	
MW-5	13:49	–	20.32	–	
MW-6	12:25	–	19.66	–	
MW-7	13:38	–	19.65	–	
MW-8	12:11	–	19.13	–	
MW-9	13:08	–	22.25	–	
MW-10	12:34	–	20.09	–	

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: O-9
Project: Groundwater Monitoring and Sampling
Sampling Technician: CL/JO
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 22.36 **Time:** 11:46 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 22.36 **Time:** 11:48 *(taken prior to purging well)*
Final D.T.W. (ft): 23.18 **Time:** 11:56 *(taken after sample collection)*
If NAPL Present: D.T.P.: — **D.T.W.:** — **Thickness:** — **Time:** —

Project No.:
Date: 8-30-2021
Arrival Time: 11:45
Air Temp:
T.O.C. Elev. (ft): 7507.22
Total Well Depth (ft): 24.78

Water Quality Parameters - Recorded During Well Purging

YSI # 1 Calibrated by: 8-27-21 JO

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
JO 11:51 11:49	12.6	562	1.23	7.37	155.5	.25 gal	No odor - clear
11:53	12.0	535	1.36	7.21	63.7	1.0 gal	No odor light Brown/turbid
							No Samples

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

~~BTEX per EPA Method 8021 (3 - 40 mL Vials w/ HgCl2 preserve)~~ JO
~~GRO + DRO per EPA Method 8015M (250 mL Amber Glass)~~ JO

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

Notes/Comments:

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-2

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

Site: BMG
Location: O-9
Project: Groundwater Monitoring and Sampling
Sampling Technician: CL/JO
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 21.71 **Time:** 11:58 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 21.71 **Time:** 12:02 *(taken prior to purging well)*
Final D.T.W. (ft): 22.00 **Time:** 12:05 *(taken after sample collection)*
If NAPL Present: D.T.P.: — D.T.W.: — Thickness: — Time: —

Project No.:
Date: 8.30.2021
Arrival Time: 11:58
Air Temp:
T.O.C. Elev. (ft): 7506.5
Total Well Depth (ft): ~~22.10~~ 30 22.05

Water Quality Parameters - Recorded During Well Purging

YSI # 1 Calibrated by: 8-27-21 JO

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
							LOW YIELD
							NO Water quality readings

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

~~BTEX per EPA Method 8021 (3 - 40 mL Vials w/ HgCl2preserve)~~ JO
~~GRO + DRO per EPA Method 8015M (250 mL Amber Glass)~~ JO

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

Notes/Comments:

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-3

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

Site: BMG
Location: O-9
Project: Groundwater Monitoring and Sampling
Sampling Technician: CL/JO
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 23.22 **Time:** 11:22 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 23.23 **Time:** 11:24 *(taken prior to purging well)*
Final D.T.W. (ft): 23.95 **Time:** 11:35 *(taken after sample collection)*
If NAPL Present: D.T.P.: — D.T.W.: — Thickness: — Time: —

Project No.:
Date: 8-30-2021
Arrival Time: 11:21
Air Temp:
T.O.C. Elev. (ft): 7508.63
Total Well Depth (ft): 28.14

Water Quality Parameters - Recorded During Well Purging

YSI # 1 Calibrated by: 8-27-2021 (JO)

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
11:28	13.0	617	1.10	7.57	200.3	.25	clear / no odor
11:33	12.3	516	0.81	7.28	204.5	1 gal	Turbid brown / no odor
							No Samples

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

~~BTEX per EPA Method 8021 (3 - 40 mL Vials w/ HgCl2 preserve)~~
~~GRO + DRO per EPA Method 8015M (250 mL Amber Glass)~~
No Samples Collected

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

Notes/Comments:

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-4

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

Site: BMG
Location: O-9
Project: Groundwater Monitoring and Sampling
Sampling Technician: CL/JD
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 17.10 **Time:** 11:40 *(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.:** — **D.T.W.:** — **Thickness:** — **Time:** —

Project No.:
Date: 8-30-2021
Arrival Time: 11:39
Air Temp:
T.O.C. Elev. (ft): 7507.1
Total Well Depth (ft): 17.09

Water Quality Parameters - Recorded During Well Purging

YSI # — Calibrated by: ✓

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
—	SEE	NOTES	BELOW	—	—		NO
							SAMPLE TAKEN

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

VOCs Full List per EPA Method 8260 (5 - 40 mL Vials w/ HgCl2 preserve)
GRO + DRO per EPA Method 8015M (250 mL Amber Glass)

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

Notes/Comments: Only .01 ft of water column for water quality reading & sampling

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-5

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

Site: BMG
Location: O-9
Project: Groundwater Monitoring and Sampling
Sampling Technician: CL/JO
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 20.33 **Time:** 13:48 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 20.32 **Time:** 13:49 *(taken prior to purging well)*
Final D.T.W. (ft): 21.28 **Time:** 14:07 *(taken after sample collection)*
If NAPL Present: D.T.P.: — **D.T.W.:** — **Thickness:** — **Time:** —

Project No.:
Date: 8.30.21
Arrival Time: 13:45
Air Temp: Sunny
T.O.C. Elev. (ft): 7503.22
Total Well Depth (ft): 21.70

Water Quality Parameters - Recorded During Well Purging

YSI # 1 Calibrated by: 8-27-21 JO

Time	Temp (deg C)	Conductivity ~~(µS)~~ (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
13:57	14.9	773	.97	7.20	-22.4	.125	Brown very Turbid Low yield
1407	—	—	—	—	—	—	Samples Collected
							Low YIELD
							Low RECHARGE

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

VOCs Full List per EPA Method 8260 (5 - 40 mL Vials w/ HgCl2 preserve)
GRO + DRO per EPA Method 8015M (250 mL Amber Glass)

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: Replace absorbant sock, Rust stains slight crude oil odor. (13:47)

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-6

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

Site: BMG
Location: O-9
Project: Groundwater Monitoring and Sampling
Sampling Technician: CL/JO
Purge / No Purge: Purge
Well Diameter (in): 4
Initial D.T.W. (ft): 19.65 **Time:** 12:23 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 19.64 **Time:** 12:25 *(taken prior to purging well)*
Final D.T.W. (ft): ~~19.58~~ 20.58 **Time:** 12:30 *(taken after sample collection)*
If NAPL Present: D.T.P.:_____ D.T.W.:_____ Thickness:_____ Time:_____

Project No.:
Date: 8-30-2021
Arrival Time: 12:22
Air Temp:
T.O.C. Elev. (ft):
Total Well Depth (ft): 23.41

Water Quality Parameters - Recorded During Well Purging

YSI # 1 Calibrated by: 8-27-21 JO

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
12:25	12.1	521	.65	7.38	55.3	1st	Clear No odor
12:29	11	498.4	.65	7.34	74.6	1.0	Clear No odor
							No samples collected

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

~~VOCs Full List per EPA Method 8260 (5 - 40 mL Vials w/ HgCl2 preserve)~~
~~GRO + DRO per EPA Method 8015M (250 mL Amber Glass)~~

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

Notes/Comments:

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-7

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

Site: BMG
Location: O-9
Project: Groundwater Monitoring and Sampling
Sampling Technician: CL/DD
Purge / No Purge: Purge
Well Diameter (in): 4
Initial D.T.W. (ft): 19.65 **Time:** 13:36 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 19.65 **Time:** 13:38 *(taken prior to purging well)*
Final D.T.W. (ft): 20.65 **Time:** 13:44 *(taken after sample collection)*
If NAPL Present: D.T.P.: ~~—~~ **D.T.W.:** ~~—~~ **Thickness:** ~~—~~ **Time:** ~~—~~

Project No.:
Date: 8-30-21
Arrival Time: 13:34
Air Temp: Sunny
T.O.C. Elev. (ft):
Total Well Depth (ft): 21.82

Water Quality Parameters - Recorded During Well Purging

YSI # 1 Calibrated by: 8-27-21 JD

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
13:41	13.2	772	2.02	7.57	.6	Initial @ 125	clear slight HC odor
13:43	11.5	726	1.03	7.42	-16.5	.5 gal	Slight turbid slight HC odor
~~—~~	~~—~~	~~—~~	~~—~~	~~—~~	~~—~~	~~—~~	~~No Samples~~ OK a

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

~~VOCs Full List per EPA Method 8260 (5 - 40 mL Vials w/ HgCl2 preserve)~~ JD
~~GRO + DRO per EPA Method 8015M (250 mL Amber Glass)~~ JD

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

Notes/Comments: Very low yield

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-8

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

Site: BMG
Location: O-9
Project: Groundwater Monitoring and Sampling
Sampling Technician: CL/SD
Purge / No Purge: Purge
Well Diameter (in): 4
Initial D.T.W. (ft): 19.13 **Time:** 12:10 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 19.13 **Time:** 12:11 *(taken prior to purging well)*
Final D.T.W. (ft): 19.99 **Time:** 12:17 *(taken after sample collection)*
If NAPL Present: **D.T.P.:** — **D.T.W.:** — **Thickness:** — **Time:** —

Project No.:
Date: 8.30.2021
Arrival Time: 12:09
Air Temp: Sunny
T.O.C. Elev. (ft):
Total Well Depth (ft): 22.68

Water Quality Parameters - Recorded During Well Purging

YSI # 1 Calibrated by: 8-27-21 JG

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
12:13	13.2	558	1.27	7.45	109.8	Initial	Clear No odor
12:16	11.6	531	.95	7.36	34.0	1.0	Clear-No odor
—	—	—	—	—	—	—	No Samples

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

~~BTEX per EPA Method 8021 (3 - 40 mL Vials w/ HgCl2preserve)~~ JD
~~GRO + DRO per EPA Method 8015M (250 mL Amber Glass)~~ JD

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

Notes/Comments:

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-9

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

Site: BMG
Location: O-9
Project: Groundwater Monitoring and Sampling
Sampling Technician: CL/SO
Purge / No Purge: Purge
Well Diameter (in): 2
Project No.:
Date: 8.30.
Arrival Time: 13.05
Air Temp: Sunny
T.O.C. Elev. (ft):
Total Well Depth (ft): 27.18
Initial D.T.W. (ft): 22.25 **Time:** 13:07 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 22.25 **Time:** 13:08 *(taken prior to purging well)*
Final D.T.W. (ft): 25.12 **Time:** 13:30 *(taken after sample collection)*
If NAPL Present: D.T.P.: — **D.T.W.:** — **Thickness:** — **Time:** —

Water Quality Parameters - Recorded During Well Purging

YSI # 1 Calibrated by: 8-27-21 SO

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
13:14	12	514	4.19	7.66	116.4	Intial .25	clear No odor
13:16	10.4	485.9	2.93	7.68	107.8	1 gal	slightly turbid No odor
13:20	9.3	470.9	3.64	7.66	106.6	2 gal	Slight brown No odor
13:56	—	—	—	—	—		Samples collected

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

VOCs Full List per EPA Method 8260 (5 - 40 mL Vials w/ HgCl2 preserve)
GRO + DRO per EPA Method 8015M (250 mL Amber Glass)

Disposal of Purged Water: On Ground No draining, 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: Slight organic material detected. -13:16

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-10

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

Site: BMG
Location: O-9
Project: Groundwater Monitoring and Sampling
Sampling Technician: CL/JB
Purge / No Purge: Purge
Well Diameter (in): 2

Project No.:
Date: 8-30-2021
Arrival Time: 12:32
Air Temp: Sunny
T.O.C. Elev. (ft):
Total Well Depth (ft): 27.43

Initial D.T.W. (ft): 20.08 **Time:** 12:33 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 20.09 **Time:** 12:34 *(taken prior to purging well)*
Final D.T.W. (ft): 25.61 **Time:** 12:58 *(taken after sample collection)*
If NAPL Present: D.T.P.: — **D.T.W.:** — **Thickness:** — **Time:** —

Water Quality Parameters - Recorded During Well Purging

YSI # 1 Calibrated by: 8-27-21 JB

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
12:41	11.1	327.8	3.30	7.71	96.7	Initial .25	clear - No odor
12:43	9.6	323.1	3.38	7.70	93.8	1.0	slight tan - No odor
12:45	9.1	304.5	1.49	7.80	84.6	2.0	Brown - No odor
12:48	9.4	295	1.68	7.91	8.3	3.0	Brown Turbid No odor
12:56	—	—	—	—	—	—	Samples Collected

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

~~VOCs~~ Full List per EPA ~~Method~~ 8260 (5 - 40 mL Vials w/ HgCl2 preserve)
GRO + DRO per EPA Method 8015M (250 mL Amber Glass)

Disposal of Purged Water: On Ground No Drainage to wash/drain
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:

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

September 07, 2021

Elizabeth McNally

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

RE: BMG 0 9 OrderNo.: 2109011

Dear Elizabeth McNally:

Hall Environmental Analysis Laboratory received 4 sample(s) on 9/1/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2109011**
Date Reported: **9/7/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services **Client Sample ID:** MW-5
Project: BMG 0 9 **Collection Date:** 8/30/2021 2:07:00 PM
Lab ID: 2109011-001 **Matrix:** AQUEOUS **Received Date:** 9/1/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	0.20	0.10	D	mg/L	2	9/4/2021 9:34:46 AM	C81075
Surr: 4-Bromofluorobenzene	94.1	70-130	D	%Rec	2	9/4/2021 9:34:46 AM	C81075
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: **SB**	
Diesel Range Organics (DRO)	2.0	1.0		mg/L	1	9/2/2021 2:12:45 PM	62333
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	9/2/2021 2:12:45 PM	62333
Surr: DNOP	118	64.8-167		%Rec	1	9/2/2021 2:12:45 PM	62333
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	2.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
Toluene	ND	2.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
Ethylbenzene	ND	2.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
Methyl tert-butyl ether (MTBE)	ND	2.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
1,2,4-Trimethylbenzene	2.1	2.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
1,3,5-Trimethylbenzene	ND	2.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
1,2-Dichloroethane (EDC)	ND	2.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
Naphthalene	ND	4.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
1-Methylnaphthalene	ND	8.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
2-Methylnaphthalene	ND	8.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
Acetone	ND	20		µg/L	2	9/3/2021 8:55:13 PM	R81080
Bromobenzene	ND	2.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
Bromodichloromethane	ND	2.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
Bromoform	ND	2.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
Bromomethane	ND	6.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
2-Butanone	ND	20		µg/L	2	9/3/2021 8:55:13 PM	R81080
Carbon disulfide	ND	20		µg/L	2	9/3/2021 8:55:13 PM	R81080
Carbon Tetrachloride	ND	2.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
Chlorobenzene	ND	2.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
Chloroethane	ND	4.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
Chloroform	ND	2.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
Chloromethane	ND	6.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
2-Chlorotoluene	ND	2.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
4-Chlorotoluene	ND	2.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
cis-1,2-DCE	ND	2.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
cis-1,3-Dichloropropene	ND	2.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
1,2-Dibromo-3-chloropropane	ND	4.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
Dibromochloromethane	ND	2.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
Dibromomethane	ND	2.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
1,2-Dichlorobenzene	ND	2.0		µg/L	2	9/3/2021 8:55:13 PM	R81080

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 **2109011**
Date Reported: **9/7/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-5
Project: BMG 0 9
Collection Date: 8/30/2021 2:07:00 PM
Lab ID: 2109011-001 **Matrix:** AQUEOUS **Received Date:** 9/1/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,3-Dichlorobenzene	ND	2.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
1,4-Dichlorobenzene	ND	2.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
Dichlorodifluoromethane	ND	2.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
1,1-Dichloroethane	ND	2.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
1,1-Dichloroethene	ND	2.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
1,2-Dichloropropane	ND	2.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
1,3-Dichloropropane	ND	2.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
2,2-Dichloropropane	ND	4.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
1,1-Dichloropropene	ND	2.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
Hexachlorobutadiene	ND	2.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
2-Hexanone	ND	20		µg/L	2	9/3/2021 8:55:13 PM	R81080
Isopropylbenzene	ND	2.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
4-Isopropyltoluene	ND	2.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
4-Methyl-2-pentanone	ND	20		µg/L	2	9/3/2021 8:55:13 PM	R81080
Methylene Chloride	ND	6.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
n-Butylbenzene	ND	6.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
n-Propylbenzene	ND	2.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
sec-Butylbenzene	ND	2.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
Styrene	ND	2.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
tert-Butylbenzene	ND	2.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
1,1,2,2-Tetrachloroethane	ND	4.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
Tetrachloroethene (PCE)	ND	2.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
trans-1,2-DCE	ND	2.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
trans-1,3-Dichloropropene	ND	2.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
1,2,3-Trichlorobenzene	ND	2.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
1,2,4-Trichlorobenzene	ND	2.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
1,1,1-Trichloroethane	ND	2.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
1,1,2-Trichloroethane	ND	2.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
Trichloroethene (TCE)	ND	2.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
Trichlorofluoromethane	ND	2.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
1,2,3-Trichloropropane	ND	4.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
Vinyl chloride	ND	2.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
Xylenes, Total	ND	3.0		µg/L	2	9/3/2021 8:55:13 PM	R81080
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	2	9/3/2021 8:55:13 PM	R81080
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	2	9/3/2021 8:55:13 PM	R81080
Surr: Dibromofluoromethane	107	70-130		%Rec	2	9/3/2021 8:55:13 PM	R81080
Surr: Toluene-d8	100	70-130		%Rec	2	9/3/2021 8:55:13 PM	R81080

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 **2109011**
Date Reported: **9/7/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services **Client Sample ID:** MW-9
Project: BMG 0 9 **Collection Date:** 8/30/2021 1:56:00 PM
Lab ID: 2109011-002 **Matrix:** AQUEOUS **Received Date:** 9/1/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	9/4/2021 10:03:20 AM	C81075
Surr: 4-Bromofluorobenzene	94.5	70-130		%Rec	1	9/4/2021 10:03:20 AM	C81075
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	9/2/2021 2:36:41 PM	62333
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	9/2/2021 2:36:41 PM	62333
Surr: DNOP	117	64.8-167		%Rec	1	9/2/2021 2:36:41 PM	62333
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
Toluene	ND	1.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
Ethylbenzene	ND	1.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
Naphthalene	ND	2.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
1-Methylnaphthalene	ND	4.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
2-Methylnaphthalene	ND	4.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
Acetone	ND	10		µg/L	1	9/3/2021 11:10:24 PM	R81080
Bromobenzene	ND	1.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
Bromodichloromethane	ND	1.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
Bromoform	ND	1.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
Bromomethane	ND	3.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
2-Butanone	ND	10		µg/L	1	9/3/2021 11:10:24 PM	R81080
Carbon disulfide	ND	10		µg/L	1	9/3/2021 11:10:24 PM	R81080
Carbon Tetrachloride	ND	1.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
Chlorobenzene	ND	1.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
Chloroethane	ND	2.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
Chloroform	ND	1.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
Chloromethane	ND	3.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
2-Chlorotoluene	ND	1.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
4-Chlorotoluene	ND	1.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
cis-1,2-DCE	ND	1.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
Dibromochloromethane	ND	1.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
Dibromomethane	ND	1.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
1,2-Dichlorobenzene	ND	1.0		µg/L	1	9/3/2021 11:10:24 PM	R81080

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 **2109011**
Date Reported: **9/7/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-9
Project: BMG 0 9
Collection Date: 8/30/2021 1:56:00 PM
Lab ID: 2109011-002 **Matrix:** AQUEOUS **Received Date:** 9/1/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,3-Dichlorobenzene	ND	1.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
1,4-Dichlorobenzene	ND	1.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
Dichlorodifluoromethane	ND	1.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
1,1-Dichloroethane	ND	1.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
1,1-Dichloroethene	ND	1.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
1,2-Dichloropropane	ND	1.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
1,3-Dichloropropane	ND	1.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
2,2-Dichloropropane	ND	2.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
1,1-Dichloropropene	ND	1.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
Hexachlorobutadiene	ND	1.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
2-Hexanone	ND	10		µg/L	1	9/3/2021 11:10:24 PM	R81080
Isopropylbenzene	ND	1.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
4-Isopropyltoluene	ND	1.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
4-Methyl-2-pentanone	ND	10		µg/L	1	9/3/2021 11:10:24 PM	R81080
Methylene Chloride	ND	3.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
n-Butylbenzene	ND	3.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
n-Propylbenzene	ND	1.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
sec-Butylbenzene	ND	1.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
Styrene	ND	1.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
tert-Butylbenzene	ND	1.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
trans-1,2-DCE	ND	1.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
1,1,1-Trichloroethane	ND	1.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
1,1,2-Trichloroethane	ND	1.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
Trichloroethene (TCE)	ND	1.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
Trichlorofluoromethane	ND	1.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
1,2,3-Trichloropropane	ND	2.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
Vinyl chloride	ND	1.0		µg/L	1	9/3/2021 11:10:24 PM	R81080
Xylenes, Total	ND	1.5		µg/L	1	9/3/2021 11:10:24 PM	R81080
Surr: 1,2-Dichloroethane-d4	110	70-130		%Rec	1	9/3/2021 11:10:24 PM	R81080
Surr: 4-Bromofluorobenzene	91.5	70-130		%Rec	1	9/3/2021 11:10:24 PM	R81080
Surr: Dibromofluoromethane	109	70-130		%Rec	1	9/3/2021 11:10:24 PM	R81080
Surr: Toluene-d8	102	70-130		%Rec	1	9/3/2021 11:10:24 PM	R81080

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 **2109011**
Date Reported: **9/7/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-10
Project: BMG 0 9
Collection Date: 8/30/2021 12:56:00 PM
Lab ID: 2109011-003 **Matrix:** AQUEOUS **Received Date:** 9/1/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JMR**	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	9/4/2021 10:31:58 AM	C81075
Surr: 4-Bromofluorobenzene	94.9	70-130		%Rec	1	9/4/2021 10:31:58 AM	C81075
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	9/2/2021 3:00:40 PM	62333
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	9/2/2021 3:00:40 PM	62333
Surr: DNOP	111	64.8-167		%Rec	1	9/2/2021 3:00:40 PM	62333
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
Toluene	ND	1.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
Ethylbenzene	ND	1.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
Naphthalene	ND	2.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
1-Methylnaphthalene	ND	4.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
2-Methylnaphthalene	ND	4.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
Acetone	ND	10		µg/L	1	9/3/2021 11:37:25 PM	R81080
Bromobenzene	ND	1.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
Bromodichloromethane	ND	1.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
Bromoform	ND	1.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
Bromomethane	ND	3.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
2-Butanone	ND	10		µg/L	1	9/3/2021 11:37:25 PM	R81080
Carbon disulfide	ND	10		µg/L	1	9/3/2021 11:37:25 PM	R81080
Carbon Tetrachloride	ND	1.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
Chlorobenzene	ND	1.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
Chloroethane	ND	2.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
Chloroform	ND	1.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
Chloromethane	ND	3.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
2-Chlorotoluene	ND	1.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
4-Chlorotoluene	ND	1.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
cis-1,2-DCE	ND	1.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
Dibromochloromethane	ND	1.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
Dibromomethane	ND	1.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
1,2-Dichlorobenzene	ND	1.0		µg/L	1	9/3/2021 11:37:25 PM	R81080

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 **2109011**
Date Reported: **9/7/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-10
Project: BMG 0 9
Collection Date: 8/30/2021 12:56:00 PM
Lab ID: 2109011-003 **Matrix:** AQUEOUS **Received Date:** 9/1/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,3-Dichlorobenzene	ND	1.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
1,4-Dichlorobenzene	ND	1.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
Dichlorodifluoromethane	ND	1.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
1,1-Dichloroethane	ND	1.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
1,1-Dichloroethene	ND	1.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
1,2-Dichloropropane	ND	1.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
1,3-Dichloropropane	ND	1.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
2,2-Dichloropropane	ND	2.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
1,1-Dichloropropene	ND	1.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
Hexachlorobutadiene	ND	1.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
2-Hexanone	ND	10		µg/L	1	9/3/2021 11:37:25 PM	R81080
Isopropylbenzene	ND	1.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
4-Isopropyltoluene	ND	1.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
4-Methyl-2-pentanone	ND	10		µg/L	1	9/3/2021 11:37:25 PM	R81080
Methylene Chloride	ND	3.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
n-Butylbenzene	ND	3.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
n-Propylbenzene	ND	1.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
sec-Butylbenzene	ND	1.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
Styrene	ND	1.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
tert-Butylbenzene	ND	1.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
trans-1,2-DCE	ND	1.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
1,1,1-Trichloroethane	ND	1.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
1,1,2-Trichloroethane	ND	1.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
Trichloroethene (TCE)	ND	1.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
Trichlorofluoromethane	ND	1.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
1,2,3-Trichloropropane	ND	2.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
Vinyl chloride	ND	1.0		µg/L	1	9/3/2021 11:37:25 PM	R81080
Xylenes, Total	ND	1.5		µg/L	1	9/3/2021 11:37:25 PM	R81080
Surr: 1,2-Dichloroethane-d4	95.1	70-130		%Rec	1	9/3/2021 11:37:25 PM	R81080
Surr: 4-Bromofluorobenzene	96.0	70-130		%Rec	1	9/3/2021 11:37:25 PM	R81080
Surr: Dibromofluoromethane	100	70-130		%Rec	1	9/3/2021 11:37:25 PM	R81080
Surr: Toluene-d8	95.3	70-130		%Rec	1	9/3/2021 11:37:25 PM	R81080

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 **2109011**
Date Reported: **9/7/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services **Client Sample ID:** Trip Blank
Project: BMG 0 9 **Collection Date:**
Lab ID: 2109011-004 **Matrix:** TRIP BLANK **Received Date:** 9/1/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
Toluene	ND	1.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
Ethylbenzene	ND	1.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
Naphthalene	ND	2.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
1-Methylnaphthalene	ND	4.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
2-Methylnaphthalene	ND	4.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
Acetone	ND	10		µg/L	1	9/4/2021 12:04:27 AM	R81080
Bromobenzene	ND	1.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
Bromodichloromethane	ND	1.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
Bromoform	ND	1.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
Bromomethane	ND	3.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
2-Butanone	ND	10		µg/L	1	9/4/2021 12:04:27 AM	R81080
Carbon disulfide	ND	10		µg/L	1	9/4/2021 12:04:27 AM	R81080
Carbon Tetrachloride	ND	1.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
Chlorobenzene	ND	1.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
Chloroethane	ND	2.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
Chloroform	ND	1.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
Chloromethane	ND	3.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
2-Chlorotoluene	ND	1.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
4-Chlorotoluene	ND	1.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
cis-1,2-DCE	ND	1.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
Dibromochloromethane	ND	1.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
Dibromomethane	ND	1.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
1,2-Dichlorobenzene	ND	1.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
1,3-Dichlorobenzene	ND	1.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
1,4-Dichlorobenzene	ND	1.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
Dichlorodifluoromethane	ND	1.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
1,1-Dichloroethane	ND	1.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
1,1-Dichloroethene	ND	1.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
1,2-Dichloropropane	ND	1.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
1,3-Dichloropropane	ND	1.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
2,2-Dichloropropane	ND	2.0		µg/L	1	9/4/2021 12:04:27 AM	R81080

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 **2109011**
Date Reported: **9/7/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services **Client Sample ID:** Trip Blank
Project: BMG 0 9 **Collection Date:**
Lab ID: 2109011-004 **Matrix:** TRIP BLANK **Received Date:** 9/1/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
Hexachlorobutadiene	ND	1.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
2-Hexanone	ND	10		µg/L	1	9/4/2021 12:04:27 AM	R81080
Isopropylbenzene	ND	1.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
4-Isopropyltoluene	ND	1.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
4-Methyl-2-pentanone	ND	10		µg/L	1	9/4/2021 12:04:27 AM	R81080
Methylene Chloride	ND	3.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
n-Butylbenzene	ND	3.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
n-Propylbenzene	ND	1.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
sec-Butylbenzene	ND	1.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
Styrene	ND	1.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
tert-Butylbenzene	ND	1.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
trans-1,2-DCE	ND	1.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
1,1,1-Trichloroethane	ND	1.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
1,1,2-Trichloroethane	ND	1.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
Trichloroethene (TCE)	ND	1.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
Trichlorofluoromethane	ND	1.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
1,2,3-Trichloropropane	ND	2.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
Vinyl chloride	ND	1.0		µg/L	1	9/4/2021 12:04:27 AM	R81080
Xylenes, Total	ND	1.5		µg/L	1	9/4/2021 12:04:27 AM	R81080
Surr: 1,2-Dichloroethane-d4	108	70-130		%Rec	1	9/4/2021 12:04:27 AM	R81080
Surr: 4-Bromofluorobenzene	92.3	70-130		%Rec	1	9/4/2021 12:04:27 AM	R81080
Surr: Dibromofluoromethane	109	70-130		%Rec	1	9/4/2021 12:04:27 AM	R81080
Surr: Toluene-d8	95.1	70-130		%Rec	1	9/4/2021 12:04:27 AM	R81080

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#: **2109011**
07-Sep-21

Client: Animas Environmental Services
Project: BMG 0 9

Sample ID: **MB-62333**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range**
Client ID: **PBW**	Batch ID: **62333**	RunNo: **81001**
Prep Date: **9/1/2021**	Analysis Date: **9/2/2021**	SeqNo: **2858762** 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	0.60		0.5000		120	64.8	167			

Sample ID: **LCS-62333**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range**
Client ID: **LCSW**	Batch ID: **62333**	RunNo: **81001**
Prep Date: **9/1/2021**	Analysis Date: **9/2/2021**	SeqNo: **2858763** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	2.5	1.0	2.500	0	99.7	73	138			
Surr: DNOP	0.27		0.2500		107	64.8	167			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
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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#: **2109011**
07-Sep-21

Client: Animas Environmental Services
Project: BMG 0 9

Sample ID: **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R81080**	RunNo: **81080**
Prep Date:	Analysis Date: **9/3/2021**	SeqNo: **2861947** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	102	70	130			
Toluene	18	1.0	20.00	0	90.0	70	130			
Chlorobenzene	18	1.0	20.00	0	89.0	70	130			
1,1-Dichloroethene	19	1.0	20.00	0	94.4	70	130			
Trichloroethene (TCE)	18	1.0	20.00	0	92.0	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		106	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	11		10.00		109	70	130			
Surr: Toluene-d8	10		10.00		102	70	130			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R81080**	RunNo: **81080**
Prep Date:	Analysis Date: **9/3/2021**	SeqNo: **2861962** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
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#: **2109011**
07-Sep-21

Client: Animas Environmental Services
Project: BMG 0 9

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R81080**	RunNo: **81080**
Prep Date:	Analysis Date: **9/3/2021**	SeqNo: **2861962** Units: **µg/L**

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	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#: **2109011**
07-Sep-21

Client: Animas Environmental Services
Project: BMG 0 9

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R81080**	RunNo: **81080**
Prep Date:	Analysis Date: **9/3/2021**	SeqNo: **2861962** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		104	70	130			
Surr: 4-Bromofluorobenzene	9.3		10.00		92.8	70	130			
Surr: Dibromofluoromethane	11		10.00		111	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
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#: **2109011**
07-Sep-21

Client: Animas Environmental Services
Project: BMG 0 9

Sample ID: **mb 2**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBW**	Batch ID: **C81075**	RunNo: **81075**
Prep Date:	Analysis Date: **9/4/2021**	SeqNo: **2861867** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130			

Sample ID: **2.5ug gro lcs 2**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSW**	Batch ID: **C81075**	RunNo: **81075**
Prep Date:	Analysis Date: **9/4/2021**	SeqNo: **2861869** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.43	0.050	0.5000	0	86.2	70	130			
Surr: 4-Bromofluorobenzene	9.2		10.00		92.1	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 Services | Work Order Number: 2109011 | RcptNo: 1

Received By: Cheyenne Cason 9/1/2021 7:15:00 AM

Completed By: Isaiah Ortiz 9/1/2021 9:31:29 AM

Reviewed By: JR 9/1/21

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° 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 ☐	# of preserved bottles checked for pH: (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted?
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	Checked by: TMC 9.1.21

Special Handling (if applicable)

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

Person Notified: Date:

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

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.0	Good	Not Present			

Chain-of-Custody Record

Client: **Animas Environmental Services**

Mailing Address: **P.O. Box 8**
Farmington, NM 87499

Phone #: 505-564-2281

Email or Fax#: lcupps@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 O-9

Project #:

Project Manager:
Elizabeth McNally/ Lany Cupps

Sampler: CL / JO
On Ice: ☒ Yes ☐ No
Sample Temperature: 2.2-0.2=2.0

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. 2109011	VOCs FII List (8260))	TPH (GRO/DRO) (8015)							Air Bubbles (Y or N)
~~8-30-21~~		~~H_2O~~	~~MW-4~~	5- 40 mL VOA 250 mL amber glass	5-HgCl2 1-cool		x	x	cl						
8-30-21	14:07	H_2O	MW-5	5- 40 mL VOA 250 mL amber glass	5-HgCl2 1-cool	001	x	x							
8-30-21	13:56	H_2O	MW-9	5- 40 mL VOA 250 mL amber glass	5-HgCl2 1-cool	002	x	x							
8-30-21	12:56	H_2O	MW-10	5- 40 mL VOA 250 mL amber glass	5-HgCl2 1-cool	003	x	x							
		H_2O	Trip blank	2 - 40 mL VOA			x	x							

Date:	Time:	Relinquished by:	Received by:	Date	Time
8/31/21	1640			8/31/21	1646
Date:	Time:	Relinquished by:	Received by:	Date	Time
8/31/21	1753		Esmé courier	9/1/21	0715

Remarks: Direct bill to BMG. Call with any questions.

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

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 64926

CONDITIONS

Operator: BENSON-MONTIN-GREER DRILLING CORP 4900 College Blvd. Farmington, NM 87402	OGRID: 2096
	Action Number: 64926
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Review of 3Q 2021 Groundwater Monitoring Report: Content satisfactory 1. Continue quarterly monitoring of wells that have not yet met the criteria of eight consecutive sampling events with concentrations below WQCC standards. a. Complete groundwater monitoring and sampling in fourth quarter 2021 b. In the event a measurable thickness of residual LNAPL is observed within MW-7, hand bail the well until all residual LNAPL is removed c. Submit the Annual Monitoring Report to the OCD no later than March 31, 2022	1/3/2022