

NM2-4

2022 Annual Report

BMG Landfarm

OGRID: 2096

Facility ID: fEEM0112331470



September 25, 2023

Brad Jones
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

RE: 2022 Landfarm Monitoring and Sampling Report
Permit # NM-02-0004
BMG's Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Dear Mr. Jones:

Between March and November 2022, Animas Environmental Services, LLC (AES) completed quarterly evaporation pond groundwater monitoring and sampling at the Benson-Montin-Greer Drilling Corporation (BMG) Centralized Surface Waste Management Facility (Landfarm), which is in the NW¼ NW¼ Section 20, T25N, R1E, Rio Arriba County, New Mexico. In addition, AES conducted Landfarm sampling in March, June, September, and November 2022 in accordance with NMAC 19.15.36.15 for treatment zone and NMAC 19.15.26.20.A and 19.15.36.15 for the vadose zone.

1.0 Site History

1.1 2008 Site Investigation

In April 2008, AES personnel confirmed the presence of liquid within the Interstitial Well at the Landfarm evaporation pond of the BMG Surface Waste Management Facility. Site investigation activities conducted in May 2008 confirmed that although the primary liner had failed, the integrity of the secondary liner was not compromised, and no release to the environment had occurred. As a precautionary measure, NMOCD requested that four groundwater monitor wells (MW-1 through MW-4) be installed around the evaporation pond and monitored quarterly in conjunction with ongoing Landfarm sampling. BMG installed a replacement 69-mil high density polyethylene (HDPE) primary liner over the existing secondary liner in late September 2008.

1.2 Monitoring and Sampling, 2014 to 2021

Prior to 2022, AES personnel conducted quarterly groundwater and landfarm sampling at the facility between March 2014 and October 2021.

Brad Jones
2022 Landfarm Monitoring and Sampling Report
September 2023; Page 2 of 9

1.2.1 Background Sampling

On December 2, 2014, at the request of and in consultation with Brad Jones of the NMOCD, AES personnel collected three background vadose soil composite samples from separate locations found outside active operations areas at the Landfarm. Samples were submitted for laboratory analysis. Note that when the Landfarm was originally permitted, background sampling consisted of a limited list of parameters.

Proposed background threshold concentrations were provided via email by Jim Griswold of NMOCD on October 7, 2016, and were subsequently accepted by BMG. Verbal confirmation by NMOCD of the proposed background action levels was made in June 2018. These action levels as well as background sample locations and concentrations were included in the 2014 through 2018 sampling reports.

1.2.2 Evaporation Pond Groundwater Monitoring and Sampling

Groundwater analytical results from monitor wells MW-1 through MW-4 (located around the Evaporation Pond) have remained below laboratory detection limits for benzene, toluene, ethylbenzene, and total xylenes (BTEX) and total petroleum hydrocarbons (TPH) for all sampling events between 2014 and 2021.

1.2.3 Landfarm Treatment Zone Sampling

Landfarm treatment zone samples had TPH concentrations below NMOCD Closure Action Levels for all events in Cells 1 and 4 and for several events in Cells 2 and 3. Chloride concentrations were below the applicable NMOCD Closure Action Level for all sampling events between 2014 and 2021.

1.2.4 Landfarm Vadose Zone Sampling

Vadose zone analytical results reported concentrations exceeding the NMOCD approved background threshold concentrations in all cells for various parameters, including TPH and chlorides. Additional exceedances have also been noted for fluoride, nitrate, sulfate, arsenic, barium, chromium, copper, iron, lead, manganese, and zinc.

2.0 Evaporation Pond Groundwater Monitoring and Sampling, Q1 through Q4 2022

In accordance with the 2008 Sampling and Analysis Plan, groundwater monitoring and sampling of the evaporation pond monitor wells MW-1 through MW-4 (located around the perimeter of the Evaporation Pond) was conducted on:

- Q1 – January 6, 2022;
- Q2 – June 16, 2022;
- Q3 – September 27, 2022; and
- Q4 – November 29, 2022.

Samples were not collected from the Interstitial Well due to low yield.

All groundwater samples were submitted for laboratory analysis at Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico, for the following parameters:

- BTEX per USEPA Method 8260 or 8021B or 8260B;
- TPH – Gasoline Range Organics (GRO), Diesel Range Organics (DRO), and Motor Oil Range Organics (MRO) per USEPA Method 8015B;
- Chlorides and sulfate per USEPA Method 300.0; and,
- Total Dissolved Solids (TDS) – Standard Method 2540C.

On November 2, 2022, MW-2 and MW-3 were also sampled for laboratory analysis of sulfate.

2.1 Groundwater Measurement Data

Prior to sample collection from the groundwater monitor wells, AES measured depth to water and recorded temperature, conductivity, dissolved oxygen (DO), pH, and oxidation reduction potential (ORP) for each well. Depth to water, when measurable, was recorded in the Interstitial Well. All data was recorded on Water Sample Collection Forms. A summary of water quality data is included in Table 1, water depths are found in Graphs 1 through 5, and Water Sample Collection Forms are included in the Appendix.

2.2 Laboratory Analytical Results

All laboratory analytical results for MW-1 through MW-4 during each sampling event were below laboratory detection limits for BTEX and TPH (GRO, DRO, and MRO). Chloride concentrations ranged from 32 milligrams per liter (mg/L) in MW-1 in January 2022 to 300 mg/L in June 2022 in MW-3. All laboratory analytical results for the

Brad Jones
2022 Landfarm Monitoring and Sampling Report
September 2023; Page 4 of 9

interstitial well were below laboratory detection limits for BTEX and TPH (GRO, DRO, and MRO). Chloride concentration was 50 mg/L in the interstitial well in November 2022. Sulfate levels were 100 mg/L in MW-2 and 140 mg/L in MW-3, below the New Mexico Water Quality Control Commission (WQCC) domestic drinking water standard of 600 mg/L. Laboratory analytical results for the monitor well groundwater samples are presented on Table 2, Graphs 1 through 4, and on Figure 1. Groundwater analytical laboratory reports are attached.

3.0 Landfarm Treatment Zone Sampling 2022

Although treatment zones in Cells 1 and 4 have met closure criteria specified in NMAC 19.15.36.15.F, BMG continued to sample these cells in 2023. BMG continues to till Cells 2 and 3 on a regular basis. Additionally, BMG has not added any contaminated soils to any of the Landfarm cells for at least 15 years, and they are working towards development of a Closure/Post-Closure Plan.

3.1 Semi-Annual Treatment Zone Sampling

In accordance with NMAC 19.15.36.15.D, AES personnel collected composite soil samples created from four randomly selected discrete samples from Cells 2 and 3 on March 9 and June 15, 2022. The samples were collected from 0.5- to 1-foot below the treatment zone (TZ) surface. Sampling dates, periods, sample IDs, and analysis parameters are included as follows:

Treatment Zone Semi-Annual Soil Sampling

Cells Sampled	Sampling Date	Sampling Period	Sample ID	Parameter(s) and USEPA Method(s)
2-3	March 9, 2022	SA1 2022	Cell #2 TZ CS-1, Cell #3 TZ CS-1	TPH - GRO/DRO/MRO (8015); BTEX (8021) Chloride (300.0)
2-3	June 15, 2022	SA2 2022	Cell #2 TZ CS-1, Cell #3 TZ CS-1	PCBs (8082); TPH - GRO/DRO/MRO (8015); BTEX (8021) Chloride (300.0); Total Metals (6020); Mercury (7471); Soil Metals (6010); Semi-Volatiles (8270); Volatiles (8260)

Brad Jones
2022 Landfarm Monitoring and Sampling Report
September 2023; Page 5 of 9

3.2 Treatment Zone Analytical Results – Semi-Annual Sampling

3.2.1 March 2022

For the March 2022 sampling event, TPH, BTEX, and chloride laboratory analytical results were below NMOCD Closure Action Levels (19.15.36.15.F.1-4 NMAC) in Cells 2 and 3.

3.2.2 June 2022

In June 2022, TPH, BTEX, and chloride laboratory analytical results were below NMOCD Closure Action Levels in Cells 2 and 3.

Results are tabulated in Table 3, sample locations are presented on Figure 2, and laboratory analytical reports are included in the Appendix.

4.0 Landfarm Vadose Zone

4.1 Vadose Zone Sampling

4.1.1 Quarterly and Semi-Annual Sampling

In accordance with NMAC 19.15.36.20.A (Transitional Provisions) for the existing permit and NMAC 19.15.36.15.E.2, 1 to 4 discrete and random soil samples were collected on March 9, June 15, September 27, and November 29, 2022, from each of the four cells (Cells #1 through #4) at depths of approximately 4 to 5 feet below the top of native ground surface. Each sample collection point was filled in with bentonite following sampling. The sampling date, period, cells, IDs, and analysis parameters are presented below.

4.1.2 Annual Sampling

In accordance with the existing permit as well as transitional conditions outlined in NMAC 19.15.36.20.A, one sample was collected on September 27 and November 29, 2022, from each cell for laboratory analyses of major cations/anions and RCRA 8 metals.

Vadose Zone Quarterly, Sem-Annual, and Annual Sampling

Sampling Period	Sampling Date	Sample ID	Parameter(s) and USEPA Method(s)
Q1/SA1 2022	March 9, 2022	Cell #1 VZ S-1, Cell #2 VZ S-1, Cell #3 VZ S-2, S-3, S-4, Cell #4 VZ S-1	TPH - GRO/DRO/MRO (8015); BTEX (8021)
		Cell #1 VZ Composite, Cell #2 VZ Composite, Cell #3 VZ Composite, Cell #4 VZ Composite	Anions (300.0); Mercury (7471); Soil Metals (6010);

Brad Jones
2022 Landfarm Monitoring and Sampling Report
September 2023; Page 6 of 9

Sampling Period	Sampling Date	Sample ID	Parameter(s) and USEPA Method(s)
			Radioactivity (903.0/904.0); pH (SM4500); Phenols (9066); Cyanide (9012)
Q2 2022	June 15, 2022	Cell #1 VZ S-1, S-2, S-3, S-4 Cell #2 VZ S-1, S-2, S-3, S-4 Cell #3 VZ S-1, S-2, S-3, S-4 Cell #4 VZ S-1, S-2, S-3, S-4	TPH (418.1); BTEX (8021)
Q3/Annual Sampling 2022	September 27, 2022	Cell #1 VZ S-1, Cell #2 VZ S-2, Cell #3 VZ S-4, Cell #4 VZ S-1	TPH (418.1); Volatile Organics (8260); Major Anions/Cations (300.0); Soil Metals (6010); Total Metals (6020); Mercury (7471); PCBs (8082); PAHs (9310); Semi-volatiles (8270)
Q4/Annual Sampling 2022	November 29, 2022	Cell #1 VZ S-1, Cell #2 VZ S-2, Cell #3 VZ S-4, Cell #4 VZ S-1	TPH - GRO/DRO/MRO (8015); BTEX (8021); Anions/Cations (300.0); Total Metals (6020); Mercury (7471); Phenols (9066); Radioactivity (901.1); Soil Metals (6010); Semi-volatiles (8270)

Vadose zone laboratory analytical results from 2022 are summarized in Table 4. Sample locations are presented on Figure 3. Laboratory reports are presented in the Appendix.

4.2 Vadose Zone Sampling Results

4.2.1 BTEX, TPH, Chloride

- BTEX – concentrations below laboratory detection limits in all samples;
- TPH (as GRO/DRO/MRO) – Cell #2 exceedance of 71 mg/kg in June;
- and
- Chloride – Cell #1 (970 mg/kg) exceedance in November.

The two exceedances were reported to NMOCD on April 20, 2023. Confirmation samples were collected from the vadose zone in April-May 2023 and analytical results were reported to NMOCD on June 6, 2023.

Brad Jones
2022 Landfarm Monitoring and Sampling Report
September 2023; Page 7 of 9

4.2.2 Cations/Anions and Metals

Samples collected and analyzed in November 2022 resulted in numerous exceedances of the 2016 NMOCD Approved Vadose Zone Background Values for cations/anions and metals.

Vadose Zone Cations/Anions and Metals –
Concentrations Above Approved Background Levels – November 2022

Parameter	Cell 1 (mg/kg)	Cell 2 (mg/kg)	Cell 3 (mg/kg)	Cell 4 (mg/kg)
Fluoride	3.2	--	2.1	3.2
Nitrate	--	16	1.7	--
Sulfate	13	95	9.3	23
Arsenic	3.7	4.5	4.7	4.5
Barium	120	160	110	130
Chromium	14	8.6	8.4	19
Copper	12	8.7	7.1	16
Iron	20,000	16,000	16,000	25,000
Lead	3.7	8.3	8.6	13
Manganese	240	340	400	280
Selenium	3.1	3.1	3.0	4.2
Zinc	37	32	31	45

These concentrations will be addressed in an exception request that is being prepared in conjunction with the Closure/Post-Closure Plan for the Landfarm. Laboratory analytical reports are included in the Appendix.

5.0 Conclusions and Recommendations

5.1 Conclusions

AES personnel conducted quarterly groundwater and landfarm sampling at the BMG Surface Waste Management Facility in 2022. Groundwater and the Landfarm were both sampled quarterly throughout 2022.

Groundwater elevations at the site have remained relatively stable, with depth to groundwater at approximately 40 feet bgs. Laboratory analytical results from monitor wells MW-1 through MW-4 (located around the Evaporation Pond) have remained below laboratory detection limits for BTEX and TPH for all sampling events in 2022. However, chloride concentrations have increased steadily over time in MW-3, and have

Brad Jones
2022 Landfarm Monitoring and Sampling Report
September 2023; Page 8 of 9

varied in MW-1, MW-2 and MW-4 which appear to have peaked in 2016 (MW-4) and 2019 (MW-1 and MW-2). The evaporation pond liner has been replaced.

Landfarm treatment zone samples had TPH, BTEX, and chloride concentrations below NMOCD Closure Action Levels in Cells 2 and 3.

Vadose zone analytical results reported concentrations exceeding the NMOCD approved background threshold concentrations for TPH and chlorides, as well as 12 different parameters in the vadose zone below the Landfarm cells.

5.2 Recommendations and Scheduled Activities

- **Groundwater** – Quarterly groundwater monitoring and sampling will continue according to the Sampling and Analysis Plan; AES will continue to evaluate chloride and TDS concentrations in monitor wells.
- **Treatment Zone** – Continue required semi-annual sampling; submit closure request with the closure plan.
- **Vadose Zone** – Resume quarterly and semi-annual sampling; prepare and submit closure plan which addresses exceedances associated with geological characteristics of the soils.
- **Submit a Closure/Post-Closure Plan** - in fall 2023.
- **Submit Exception Request** - to closure limits for treatment cells and vadose zone in fall 2023.

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

Sincerely,



Angela Todd, CHMM, PMP
Senior Project Manager



Elizabeth McNally, P.E.
Principal

Brad Jones
2022 Landfarm Monitoring and Sampling Report
September 2023; Page 9 of 9

Tables

- Table 1. Summary of Groundwater Measurement and Water Quality Data
- Table 2. Summary of Groundwater Analytical Results
- Table 3. Treatment Zone Soil Analytical Results
- Table 4. Vadose Zone Soil Analytical Results

Figures

- Figure 1. Evaporation Pond and Monitor Well Locations and Concentrations, 2022
- Figure 2. Treatment Zone Monitoring Locations and Results, 2022
- Figure 3. Vadose Zone Monitoring Locations, 2022

Graphs

- Graph 1. MW-1 Groundwater Concentrations Over Time
- Graph 2. MW-2 Groundwater Concentrations Over Time
- Graph 3. MW-3 Groundwater Concentrations Over Time
- Graph 4. MW-4 Groundwater Concentrations Over Time

Appendix

Water and Soil Sample Collection Forms and Laboratory Analytical Reports, 2022

Cc: Matt Dimond
Benson-Montin-Greer Drilling Corporation
4900 College Blvd
Farmington, NM 87402

Shared Documents/Landfarm/Reports/2022/2023.09.25 BMG Landfarm 2022 Annual Report

Tables

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA
BMG Landfarm, Rio Arriba County, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to Water (ft)	Water Level Elevation (ft amsl)	Temp. (°C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-1	29-Mar-13	NS	40.52	-40.52	12.09	0.707	6.60	7.36	20.5
MW-1	01-Jul-13	NS	41.70	-41.70	13.05	0.868	5.06	7.23	225.5
MW-1	09-Oct-13	NS	40.52	-40.52	12.59	0.831	17.23	7.02	205.5
MW-1	31-Mar-14	NS	40.51	-40.51	11.50	0.734	2.52	7.46	167.7
MW-1	30-Sep-14	NS	39.70	-39.70	12.92	0.901	NM	8.29	297.3
MW-1	02-Dec-14	NS	39.59	-39.59	11.66	0.928	NM	8.14	157.3
MW-1	26-Mar-15	NS	39.45	-39.45	11.99	0.853	2.36	7.53	210.9
MW-1	23-Jun-15	NS	39.50	-39.50	14.52	0.993	NM	7.44	127.8
MW-1	24-Sep-15	NS	39.57	-39.57	12.68	0.877	NM	7.30	85.9
MW-1	10-Dec-15	NS	39.39	-39.39	11.79	0.892	4.27	7.80	-192.0
MW-1	04-Mar-16	NS	39.36	-39.36	12.19	0.023	4.18	7.09	188.1
MW-1	17-Jun-16	NS	39.54	-39.54	12.50	1.242	8.79	6.95	118.2
MW-1	23-Sep-16	NS	39.66	-39.66	11.31	1.108	8.59	7.47	167.0
MW-1	19-Dec-16	NS	39.81	-39.81	10.93	0.995	5.06	7.59	168.6
MW-1	13-Apr-17	NS	39.82	-39.82	NM	NM	NM	NM	NM
MW-1	20-Jun-17	NS	39.88	-39.88	13.23	1.017	5.95	7.35	130.2
MW-1	14-Sep-17	NS	39.95	-39.95	14.11	1.007	7.90	7.35	190.8
MW-1	14-Dec-17	NS	39.64	-39.64	10.09	1.027	4.87	7.56	159.8
MW-1	14-Mar-18	NS	39.70	-39.70	12.09	0.832	6.10	7.52	87.8
MW-1	12-Jun-18	NS	39.93	-39.93	12.3	0.79	4.64	7.23	148.5
MW-1	17-Sep-18	NS	40.02	-40.02	12.7	0.686	4.86	7.49	153.3
MW-1	19-Dec-18	NS	40.12	-40.12	11.5	0.565	3.13	7.55	154.4
MW-1	28-Mar-19	NS	40.22	-40.22	12.3	0.863	6.75	7.35	220.2
MW-1	03-Jul-19	NS	39.04	-39.04	13.5	0.818	3.16	7.48	139.4

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA
BMG Landfarm, Rio Arriba County, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to Water (ft)	Water Level Elevation (ft amsl)	Temp. (°C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-1	30-Sep-19	NS	38.89	-38.89	12.6	0.846	3.09	6.66	163.8
MW-1	30-Jan-20	NS	38.88	-38.88	10.7	1.031	7.08	7.71	163.2
MW-1	26-Mar-20	NS	38.94	-38.94	11.8	1.02	5.45	7.34	184.8
MW-1	24-Jun-20	NS	39.11	-39.11	13.0	1.01	4.52	7.30	173.6
MW-1	29-Sep-20	NS	39.26	-39.26	15.7	0.864	5.14	7.40	168.2
MW-1	08-Dec-20	NS	39.37	-39.37	13.0	0.748	3.33	7.39	159.7
MW-1	18-Mar-21	NS	39.48	-39.48	11.7	0.748	4.29	7.44	98.9
MW-1	15-Jun-21	NS	39.58	-39.58	13.70	0.953	5.59	7.26	138.3
MW-1	26-Oct-21	NS	39.33	-39.33	11.9	0.743	4.75	7.25	224.3
MW-1	06-Jan-22	NS	39.39	-39.39	12.8	0.751	2.8	7.1	239.8
MW-1	16-Jun-22	NS	39.42	-39.42	13.4	0.845	4.51	7.2	225.9
MW-1	27-Sep-22	NS	39.34	-39.34	15.0	1.268	4.24	7.35	142.6
MW-1	29-Nov-22	NS	39.08	-39.08	11.9	1.365	5.5	7.1	179.5
MW-2	29-Mar-13	NS	41.54	-41.54	11.84	1.268	3.74	7.42	20.4
MW-2	01-Jul-13	NS	41.70	-41.70	16.20	0.855	4.83	7.46	175.5
MW-2	09-Oct-13	NS	41.56	-41.56	11.89	0.830	17.26	6.96	208.9
MW-2	31-Mar-14	NS	41.70	-41.70	11.56	0.760	5.51	7.63	94.7
MW-2	01-Oct-14	NS	40.82	-40.82	11.36	0.947	NM	8.18	294.0
MW-2	02-Dec-14	NS	40.68	-40.68	11.18	0.959	NM	8.76	135.2
MW-2	26-Mar-15	NS	40.62	-40.62	11.40	0.907	2.07	7.42	219.3
MW-2	23-Jun-15	NS	40.62	-40.62	13.42	1.004	NM	7.48	136.8
MW-2	24-Sep-15	NS	40.65	-40.65	12.81	0.961	NM	7.34	92.6
MW-2	10-Dec-15	NS	40.51	-40.51	11.46	1.050	5.17	7.85	-165.5

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA
BMG Landfarm, Rio Arriba County, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to Water (ft)	Water Level Elevation (ft amsl)	Temp. (°C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-2	04-Mar-16	NS	40.53	-40.53	12.02	1.751	6.41	7.31	176.3
MW-2	17-Jun-16	NS	40.62	-40.62	12.80	2.209	13.70	7.15	111.0
MW-2	23-Sep-16	NS	40.75	-40.75	11.10	1.987	7.93	7.41	183.4
MW-2	19-Dec-16	NS	40.86	-40.86	10.22	2.209	6.80	7.64	171.6
MW-2	13-Apr-17	NS	40.90	-40.90	NM	NM	NM	NM	NM
MW-2	20-Jun-17	NS	40.94	-40.94	13.04	2.808	8.50	7.36	150.9
MW-2	14-Sep-17	NS	41.01	-41.01	14.25	3.053	10.29	7.37	168.0
MW-2	14-Dec-17	NS	40.70	-40.70	9.87	2.189	6.87	7.53	198.7
MW-2	14-Mar-18	NS	40.74	-40.74	11.76	2.650	8.17	7.54	85.5
MW-2	12-Jun-18	NS	40.97	-40.97	12.1	2.18	7.86	7.24	168.5
MW-2	17-Sep-18	NS	41.06	-41.06	14.1	0.895	7.39	7.54	155.3
MW-2	19-Dec-18	NS	41.14	-41.14	11.0	1.540	5.60	7.43	151.2
MW-2	28-Mar-19	NS	40.52	-40.52	12.1	2.388	3.52	7.22	230.8
MW-2	03-Jul-19	NS	41.25	-41.25	13.0	1.423	4.53	7.57	142.8
MW-2	30-Sep-19	NS	39.93	-39.93	11.9	1.121	4.32	6.63	163.5
MW-2	30-Jan-20	NS	39.94	-39.94	10.7	1.522	9.04	7.74	177.8
MW-2	26-Mar-20	NS	40.01	-40.01	11.4	1.45	6.92	7.40	202.3
MW-2	24-Jun-20	NS	40.15	-40.15	14.0	1.79	6.35	7.32	174.7
MW-2	29-Sep-20	NS	40.31	-40.31	12.1	1.168	6.11	7.36	162.8
MW-2	08-Dec-20	NS	40.40	-40.40	11.8	1.114	6.70	7.40	162.0
MW-2	18-Mar-21	NS	40.51	-40.51	12.3	0.985	5.43	7.09	127.5
MW-2	15-Jun-21	NS	40.63	-40.63	13.26	1.260	8.28	7.35	150.3
MW-2	26-Oct-21	NS	40.41	-40.41	11.8	1.059	7.11	7.16	251.4
MW-2	06-Jan-22	NS	40.42	-40.42	12.2	0.890	3.67	7.2	252.9

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA
BMG Landfarm, Rio Arriba County, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to Water (ft)	Water Level Elevation (ft amsl)	Temp. (°C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-2	16-Jun-22	NS	40.48	-40.48	13.6	0.969	6.1	7.3	212.0
MW-2	27-Sep-22	NS	40.38	-40.38	15.1	1.626	6.04	7.43	139.7
MW-2	29-Nov-22	NS	40.12	-40.12	12.9	1.659	8.2	7.3	190.8
MW-3	29-Mar-13	NS	40.77	-40.77	12.33	1.298	3.82	7.45	16.0
MW-3	01-Jul-13	NS	40.92	-40.92	14.02	0.427	6.21	7.32	131.5
MW-3	09-Oct-13	NS	40.83	-40.83	12.86	0.815	15.23	7.00	210.2
MW-3	31-Mar-14	NS	40.83	-40.83	11.38	0.729	5.33	7.51	144.6
MW-3	30-Sep-14	NS	40.13	-40.13	12.86	0.895	NM	7.96	339.0
MW-3	02-Dec-14	NS	39.98	-39.98	11.21	0.922	NM	8.39	145.9
MW-3	26-Mar-15	NS	39.92	-39.92	11.40	0.878	3.50	7.43	229.2
MW-3	23-Jun-15	NS	39.89	-39.89	13.39	0.919	NM	7.29	145.2
MW-3	24-Sep-15	NS	39.98	-39.98	12.78	0.799	NM	6.24	132.7
MW-3	10-Dec-15	NS	39.81	-39.81	11.22	0.728	3.98	7.66	-147.7
MW-3	04-Mar-16	NS	39.82	-39.82	11.88	0.901	5.71	7.26	164.0
MW-3	17-Jun-16	NS	39.90	-39.90	12.94	0.922	8.04	6.86	92.9
MW-3	23-Sep-16	NS	40.03	-40.03	11.87	0.904	7.74	6.90	236.5
MW-3	19-Dec-16	NS	40.15	-40.15	9.84	0.884	6.33	7.54	166.4
MW-3	13-Apr-17	NS	40.18	-40.18	NM	NM	NM	NM	NM
MW-3	20-Jun-17	NS	40.23	-40.23	13.03	0.961	7.66	7.30	140.7
MW-3	14-Sep-17	NS	40.31	-40.31	13.20	0.982	7.30	7.31	160.5
MW-3	14-Dec-17	NS	40.01	-40.01	11.11	0.923	4.23	6.79	195.7
MW-3	14-Mar-18	NS	40.04	-40.04	12.09	0.825	6.63	7.49	84.9
MW-3	12-Jun-18	NS	40.25	-40.25	12.0	0.81	5.99	7.14	119.9

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA
BMG Landfarm, Rio Arriba County, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to Water (ft)	Water Level Elevation (ft amsl)	Temp. (°C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-3	17-Sep-18	NS	40.36	-40.36	13.4	0.770	4.75	7.42	155.9
MW-3	19-Dec-18	NS	40.43	-40.43	11.3	0.92	3.67	7.48	149.4
MW-3	28-Mar-19	NS	39.80	-39.80	12.7	0.898	1.17	7.24	222.7
MW-3	03-Jul-19	NS	39.45	-39.45	12.9	0.959	3.55	7.60	135.0
MW-3	30-Sep-19	NS	39.27	-39.27	13.1	1.017	3.65	6.67	146.4
MW-3	30-Jan-20	NS	39.24	-39.24	11.0	1.314	7.90	7.70	166.8
MW-3	26-Mar-20	NS	39.29	-39.29	11.9	1.35	5.26	7.30	204.0
MW-3	24-Jun-20	NS	39.45	-39.45	12.9	1.51	3.76	7.21	180.9
MW-3	29-Sep-20	NS	39.59	-39.59	13.0	1.295	5.56	7.27	165.0
MW-3	08-Dec-20	NS	39.69	-39.69	12.0	1.273	6.08	7.35	155.7
MW-3	18-Mar-21	NS	39.80	-39.80	13.2	1.304	4.22	7.23	130.1
MW-3	15-Jun-21	NS	39.92	-39.92	13.66	1.610	6.40	7.23	164.9
MW-3	26-Oct-21	NS	39.65	-39.65	12.5	1.260	3.71	7.04	199.2
MW-3	06-Jan-22	NS	39.72	-39.72	12.7	1.210	2.9	6.9	256.4
MW-3	16-Jun-22	NS	39.77	-39.77	13.1	1.392	4.2	7.1	218.5
MW-3	27-Sep-22	NS	39.70	-39.70	NM - Well Cap Removed by Wildlife				
MW-3	29-Nov-22	NS	39.45	-39.45	13.7	2.112	5.1	7.1	192.5
MW-4	29-Mar-13	NS	41.32	-41.32	11.25	1.388	7.14	7.32	20.6
MW-4	01-Jul-13	NS	41.47	-41.47	13.81	0.890	6.27	6.38	197.7
MW-4	09-Oct-13	NS	41.35	-41.35	12.82	0.840	20.23	7.05	215.1
MW-4	31-Mar-14	NS	41.34	-41.34	12.09	0.757	5.17	7.68	163.1
MW-4	30-Sep-14	NS	40.55	-40.55	12.24	0.940	NM	8.17	276.5
MW-4	02-Dec-14	NS	40.43	-40.43	11.48	0.938	NM	7.96	156.6

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA
BMG Landfarm, Rio Arriba County, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to Water (ft)	Water Level Elevation (ft amsl)	Temp. (°C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-4	26-Mar-15	NS	40.34	-40.34	12.08	0.902	2.81	7.33	217.1
MW-4	23-Jun-15	NS	40.36	-40.36	14.12	1.021	NM	7.32	147.3
MW-4	24-Sep-15	NS	40.43	-40.43	12.76	0.931	NM	7.18	99.7
MW-4	10-Dec-15	NS	40.26	-40.26	11.70	1.091	3.91	7.71	-190.2
MW-4	04-Mar-16	NS	40.24	-40.24	11.99	1.279	6.52	7.28	162.8
MW-4	17-Jun-16	NS	40.41	-40.41	12.78	1.537	12.28	6.95	104.4
MW-4	23-Sep-16	NS	40.53	-40.53	11.47	1.589	9.68	7.51	174.8
MW-4	19-Dec-16	NS	40.67	-40.67	10.64	1.355	5.98	7.51	170.3
MW-4	13-Apr-17	NS	40.68	-40.68	NM	NM	NM	NM	NM
MW-4	20-Jun-17	NS	40.75	-40.75	13.89	1.336	7.70	7.29	141.9
MW-4	14-Sep-17	NS	40.83	-40.83	14.32	1.354	8.25	7.21	194.3
MW-4	14-Dec-17	NS	40.51	-40.51	10.18	1.387	5.52	7.37	193.6
MW-4	14-Mar-18	NS	40.56	-40.56	12.02	1.089	6.70	7.55	85.1
MW-4	12-Jun-18	NS	40.80	-40.80	12.1	1.03	5.59	7.16	141.6
MW-4	17-Sep-18	NS	40.90	-40.90	14.6	1.18	4.29	7.14	152.7
MW-4	19-Dec-18	NS	40.98	-40.98	11.8	0.94	3.84	7.38	134.7
MW-4	28-Mar-19	NS	39.40	-39.40	12.5	0.712	2.81	7.41	217.3
MW-4	03-Jul-19	NS	39.89	-39.89	12.2	0.760	4.59	7.77	133.4
MW-4	30-Sep-19	NS	39.78	-39.78	12.0	0.829	4.22	6.93	162.6
MW-4	30-Jan-20	NS	39.75	-39.75	10.6	1.129	7.66	7.67	153.9
MW-4	26-Mar-20	NS	39.81	-39.81	11.4	1.15	6.31	7.25	208.8
MW-4	24-Jun-20	NS	39.96	-39.96	12.3	1.05	5.20	7.11	198.1
MW-4	29-Sep-20	NS	40.11	-40.11	11.9	0.812	4.64	7.03	164.4
MW-4	08-Dec-20	NS	40.22	-40.22	11.7	0.811	4.25	7.32	174.0

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA
BMG Landfarm, Rio Arriba County, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to Water (ft)	Water Level Elevation (ft amsl)	Temp. (°C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-4	18-Mar-21	NS	40.33	-40.33	11.9	0.863	4.39	7.07	117.3
MW-4	15-Jun-21	NS	40.45	-40.45	13.80	1.107	8.03	7.28	158.4
MW-4	26-Oct-21	NS	40.19	-40.19	11.7	0.770	5.07	7.08	275.3
MW-4	06-Jan-22	NS	40.22	-40.22	12.1	0.754	3.6	7.0	250.2
MW-4	16-Jun-22	NS	40.24	-40.24	17.5	0.988	3.7	7.1	220.1
MW-4	27-Sep-22	NS	40.19	-40.19	14.6	1.371	4.95	7.31	136.8
MW-4	29-Nov-22	NS	39.92	-39.92	12.8	1.419	5.9	7.1	187.9
Interstitial Well	29-Mar-13	NS	9.77	-9.77	8.84	261.3	0.84	6.56	9.7
Interstitial Well	01-Jul-13	NS	9.70	-9.70	18.31	86.76	3.79	7.14	9.6
Interstitial Well	09-Oct-13	NS	9.82	-9.82	16.84	148.2	3.60	6.57	34.5
Interstitial Well	31-Mar-14	NS	9.92	-9.92	7.65	139.2	2.01	6.68	93.9
Interstitial Well	01-Oct-14	NS	9.50	-9.50	NM	NM	NM	NM	NM
Interstitial Well	26-Mar-15	NS	9.83	-9.83	NM	NM	NM	NM	NM
Interstitial Well	23-Jun-15	NS	10.66	-10.66	18.36	139.0	0.00	6.82	97.6
Interstitial Well	24-Sep-15	NS	11.33	-11.33	20.42	139.3	2.87	7.06	73.4
Interstitial Well	23-Sep-16	NS	NM	NM	NM	NM	NM	NM	NM
Interstitial Well	19-Dec-16	NS	NM	NM	NM	NM	NM	NM	NM
Interstitial Well	13-Apr-17	NS	10.16	-10.16	NM	NM	NM	NM	NM
Interstitial Well	20-Jun-17	NS	NM	NM	NM	NM	NM	NM	NM
Interstitial Well	14-Sep-17	NS	NM	NM	NM	NM	NM	NM	NM
Interstitial Well	14-Dec-17	NS	NM	NM	NM	NM	NM	NM	NM
Interstitial Well	14-Mar-18	NS	11.12	NM	NM	NM	NM	NM	NM
Interstitial Well	12-Jun-18	NS	10.35	NM	NM	NM	NM	NM	NM

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA
BMG Landfarm, Rio Arriba County, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to Water (ft)	Water Level Elevation (ft amsl)	Temp. (°C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
Interstitial Well	17-Sep-18	NS	10.74	NM	NM	NM	NM	NM	NM
Interstitial Well	19-Dec-18	NS	10.18	NM	NM	NM	NM	NM	NM
Interstitial Well	28-Mar-19	NS	10.71	-10.71	NM - Minimal Water Recharge				
Interstitial Well	30-Sep-19	NS	9.91	-9.91	NM - Minimal Water Recharge				
Interstitial Well	30-Jan-20	NS	11.15	-11.15	NM - Insufficient Water				
Interstitial Well	26-Mar-20	NS	11.12	-11.12	NM - Insufficient Water				
Interstitial Well	24-Jun-20	NS	10.58	-10.58	NM - Insufficient Water				
Interstitial Well	29-Sep-20	NS	10.61	-10.61	NM - Insufficient Water				
Interstitial Well	08-Dec-20	NS	10.49	-10.49	NM - Insufficient Water				
Interstitial Well	18-Mar-21	NS	10.02	-10.02	NM - Insufficient Water				
Interstitial Well	15-Jun-21	NS	9.89	-9.89	NM - Insufficient Water				
Interstitial Well	26-Oct-21	NS	10.04	-10.04	NM - Insufficient Water				
Interstitial Well	06-Jan-22	NS	10.36	-10.36	NM - Insufficient Water				
Interstitial Well	27-Sep-22	NS	8.92	-8.92	NM - Insufficient Water				
Interstitial Well	29-Nov-22	NS	11.08	-11.08	NM - Insufficient Water				

Notes: NM - Not Measured
NS - Not Surveyed

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
BMG Landfarm, Rio Arriba County, New Mexico

<i>Well ID</i>	<i>Date</i>	<i>Benzene</i>	<i>Toluene</i>	<i>Ethyl- Benzene</i>	<i>Total Xylenes</i>	<i>GRO</i>	<i>DRO</i>	<i>MRO</i>	<i>Chloride</i>	<i>TDS</i>
MW-1	06-Jan-22	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	32	740
MW-1	16-Jun-22	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	40	600
MW-1	27-Sep-22	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	40	676
MW-1	29-Nov-22	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	50	715
MW-2	06-Jan-22	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	180	748
MW-2	16-Jun-22	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	130	650
MW-2	27-Sep-22	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	140	970
MW-2	29-Nov-22	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	120	765
MW-3	06-Jan-22	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	250	1020
MW-3	16-Jun-22	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	300	1,040
MW-3	29-Nov-22	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	280	1,020
MW-4	06-Jan-22	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	62	775
MW-4	16-Jun-22	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	100	720
MW-4	27-Sep-22	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	71	712
MW-4	29-Nov-22	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	85	686

Notes: *NMED Groundwater Screening Level source: Risk Assessment Guidance for Site Investigations & Remediation Vol. I, Table 6-

< Analyte not detected above listed method limit

NA Not Analyzed

NE Not Established

TPH Total Petroleum Hydrocarbons

GRO Gasoline Range Organics

DRO Diesel Range Organics

MRO Motor Oil Range Organics

TABLE 3
TREATMENT ZONE SOIL ANALYTICAL RESULTS
BMG Landfarm, Rio Arriba County, New Mexico

Treatment Zone Cell	Date	TPH (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- Benzene (mg/kg)	Total Xylenes (mg/kg)	Chloride (mg/kg)
Method		418.1	8015	8015D	8015D	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	300.0
NMOCD Closure Action Levels (NMAC 19.15.36.15)		2,500	2,500 GRO/DRO/MRO 500 GRO/DRO			0.2 (Benzene) / 50 (BTEX)				500
Treatment Zone	18-Sep-12	NM	<50	2,800	4,200	<0.50	<0.502	<0.503	<1.0	21
Treatment Zone	06-Dec-12	NM	<5.0	960	3,000	<0.50	<0.50	<0.50	<1.0	31
Treatment Zone	29-Mar-13	NM	<5.0	180	420	<0.050	<0.050	<0.050	<0.10	22
Treatment Zone	01-Jul-13	NM	<5.0	880	1,500	<0.050	<0.050	<0.050	<0.10	8.8
Treatment Zone	09-Oct-13	NM	<5.0	2,700	3,100	<0.050	<0.050	<0.050	<0.10	29
Treatment Zone	31-Mar-14	NM	<2.7	470	1,000	<0.027	<0.027	<0.027	<0.055	<30
1	06-May-14	26	NM	NM	NM	NM	NM	NM	NM	120
1	30-Sep-14	NM	<4.7	620	2,200	NM	NM	NM	NM	140
1	02-Dec-14	NM	150	4,500	5,700	NM	NM	NM	NM	56
1	27-Mar-15	5,600	NM	NM	NM	NM	NM	NM	NM	<30
1	24-Sep-15	1,400	NM	NM	NM	NM	NM	NM	NM	<30
1	07-Mar-16	1,300	NM	NM	NM	NM	NM	NM	NM	45
1	22-Sep-16	1,100	NM	NM	NM	NM	NM	NM	NM	44
1	13-Apr-17	NM	<4.6	190	690	NM	NM	NM	NM	100
1	20-Sep-17	NM	<4.8	320	700	NM	NM	NM	NM	<30
1	13-Mar-18	NM	<4.9	49	160	NM	NM	NM	NM	240
1	17-Sep-18	NM	<4.9	<9.6	<48	NM	NM	NM	NM	110
1	02-Apr-20	NM	<4.9	18	65	<0.025	<0.049	<0.049	<0.099	18
2	6-May-14	780	NM	NM	NM	NM	NM	NM	NM	50
2	30-Sep-14	NM	<4.6	530	880	NM	NM	NM	NM	47
2	2-Dec-14	NM	6.2	1,400	1,200	NM	NM	NM	NM	13

TABLE 3
TREATMENT ZONE SOIL ANALYTICAL RESULTS
BMG Landfarm, Rio Arriba County, New Mexico

Treatment Zone Cell	Date	TPH (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- Benzene (mg/kg)	Total Xylenes (mg/kg)	Chloride (mg/kg)
Method		418.1	8015	8015D	8015D	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	300.0
NMOCD Closure Action Levels (NMAC 19.15.36.15)		2,500	2,500 GRO/DRO/MRO 500 GRO/DRO			0.2 (Benzene) / 50 (BTEX)				500
2	27-Mar-15	160	NM	NM	NM	NM	NM	NM	NM	<30
2	24-Sep-15	1,100	NM	NM	NM	NM	NM	NM	NM	32
2	07-Mar-16	2,600	NM	NM	NM	NM	NM	NM	NM	<30
2	22-Sep-16	4,600	NM	NM	NM	NM	NM	NM	NM	38
2	13-Apr-17	NM	<4.7	1,100	2,000	NM	NM	NM	NM	<30
2	20-Sep-17	NM	<4.9	990	1,500	NM	NM	NM	NM	<30
2	13-Mar-18	NM	<4.8	1,500	2,200	NM	NM	NM	NM	<30
2	17-Sep-18	NM	32	2,000	2,600	NM	NM	NM	NM	<30
2	28-Mar-19	NM	<4.6	190	370	NM	NM	NM	NM	<60
2	02-Apr-20	NM	<4.9	630	1,000	NM	NM	NM	NM	<60
2	16-Jun-21	NM	<24	350	850	NM	NM	NM	NM	<60
2	09-Mar-22	NM	<4.9	430	920	<0.025	<0.049	<0.049	<0.099	<60
2	16-Jun-22	NM	<4.9	270	380	<0.024	<0.049	<0.049	<0.097	33
3	6-May-14	2,300	NM	NM	NM	NM	NM	NM	NM	<30
3	30-Sep-14	NM	10	1,800	2,100	NM	NM	NM	NM	<30
3	2-Dec-14	NM	<4.7	450	640	NM	NM	NM	NM	10
3	27-Mar-15	98	NM	NM	NM	NM	NM	NM	NM	<30
3	24-Sep-15	1,100	NM	NM	NM	NM	NM	NM	NM	<30
3	07-Mar-16	2,900	NM	NM	NM	NM	NM	NM	NM	<30
3	22-Sep-16	2,000	NM	NM	NM	NM	NM	NM	NM	<30
3	13-Apr-17	NM	<4.8	360	790	NM	NM	NM	NM	<30
3	20-Sep-17	NM	<4.7	660	1,400	NM	NM	NM	NM	<30

TABLE 3
TREATMENT ZONE SOIL ANALYTICAL RESULTS
BMG Landfarm, Rio Arriba County, New Mexico

Treatment Zone Cell	Date	TPH (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- Benzene (mg/kg)	Total Xylenes (mg/kg)	Chloride (mg/kg)
Method		418.1	8015	8015D	8015D	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	300.0
NMOCD Closure Action Levels (NMAC 19.15.36.15)		2,500	2,500 GRO/DRO/MRO 500 GRO/DRO			0.2 (Benzene) / 50 (BTEX)				500
3	13-Mar-18	NM	<5.0	720	1,200	NM	NM	NM	NM	<30
3	17-Sep-18	NM	<4.6	240	420	NM	NM	NM	NM	<30
3	28-Mar-19	NM	<4.7	48	98	NM	NM	NM	NM	<60
3	02-Apr-20	NM	<4.9	870	1,600	NM	NM	NM	NM	<60
3	16-Jun-21	NM	<4.9	41	140	NM	NM	NM	NM	<60
3	09-Mar-22	NM	<4.9	130	270	<0.024	<0.049	<0.049	<0.097	<60
3	16-Jun-22	NM	<4.6	210	470	<0.023	<0.046	<0.046	<0.093	24
4	30-Sep-14	NM	<4.7	190	190	NM	NM	NM	NM	<30
4	2-Dec-14	NM	<4.6	130	190	NM	NM	NM	NM	29
4	27-Mar-15	2,200	NM	NM	NM	NM	NM	NM	NM	<30
4	24-Sep-15	370	NM	NM	NM	NM	NM	NM	NM	<30
4	07-Mar-16	190	NM	NM	NM	NM	NM	NM	NM	<30
4	22-Sep-16	410	NM	NM	NM	NM	NM	NM	NM	<30
4	13-Apr-17	NM	<5.0	650	1,000	NM	NM	NM	NM	<30
4	20-Sep-17	NM	<4.6	160	270	NM	NM	NM	NM	<30
4	13-Mar-18	NM	<5.0	83	140	NM	NM	NM	NM	<30
4	17-Sep-18	NM	<4.9	10	<46	NM	NM	NM	NM	<30
4	02-Apr-20	NM	<4.9	<9.2	<46	<0.024	<0.049	<0.049	<0.098	<7.5

Notes: < Analyte not detected above listed method limit
 NM Not Measured
 TPH Total Petroleum Hydrocarbons

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	TPH mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Benzene mg/kg	Toluene mg/kg	Ethyl-Benzene mg/kg	Total Xylenes mg/kg	Chloride mg/kg	Fluoride mg/kg
Analytical Method		418.1	8015D	8015M/D	8015M/D	8021B/8260B	8021B/8260B	8021B/8260B	8021B/8260B	300.0	300.0
Approved Background		20	20			0.05	0.05	0.05	0.1	25	0.6
VZ Cell #1	18-Sep-12	NM	<5.0	<10	NM	<0.050	<0.050	<0.050	<0.10	<15	<3.0
VZ Cell #1	6-Dec-12	NM	<5.0	240	830	<0.050	<0.050	<0.050	<0.10	66	NM
VZ Cell #1	1-Jul-13	NM	<5.0	<10	<50	<0.050	<0.050	<0.050	<0.10	<7.5	NM
VZ Cell #1	9-Oct-13	NM	<5.0	<9.9	<49	<0.050	<0.050	<0.050	<0.10	19	2.0
VZ Cell #1	31-Mar-14	21	<3.6	<10	<50	<0.036	<0.036	<0.036	<0.071	<30	NM
Cell #1 CS-1	09-Mar-22	NM	NM	NM	NM	NM	NM	NM	NM	23	1.5
VZ Cell #1A	29-Mar-13	NM	<5.0	<10	<51	<0.050	<0.050	<0.050	<0.10	<7.5	<1.5
Cell #1 S-1	6-May-14	<20	NM	NM	NM	<0.046	<0.046	<0.046	<0.092	<1.5	0.77
Cell #1 S-1	1-Oct-14	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.096	<30	NM
Cell #1 S-1	9-Dec-14	<20	NM	NM	NM	<0.049	<0.049	<0.049	<0.098	<30	NM
Cell #1 S-1	27-Mar-15	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.095	<30	NM
Cell #1 S-1	24-Jun-15	NM	<4.8	<9.8	<49	<0.048	<0.048	<0.048	<0.097	NM	NM
Cell #1 S-1	24-Sep-15	NM	<4.8	<9.9	<49	<0.048	<0.048	<0.048	<0.097	<1.5	0.51
Cell #1 S-1	09-Dec-15	NM	<4.7	<9.7	<48	<0.047	<0.047	<0.047	<0.095	NM	NM
Cell #1 S-1	07-Mar-16	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.096	180	NM
Cell #1 S-1	16-Jun-16	<20	NM	NM	NM	<0.025	<0.049	<0.049	<0.099	150	NM
Cell #1 S-1	22-Sep-16	NM	<4.6	<9.7	<48	<0.023	<0.046	<0.046	<0.092	140	2.3
Cell #1 S-1	15-Dec-16	NM	<4.8	<10	<50	<0.024	<0.048	<0.048	<0.097	NM	NM
Cell #1 S-1	13-Apr-17	<19	NM	NM	NM	<0.023	<0.046	<0.046	<0.092	100	NM
Cell #1 S-1	22-Jun-17	NM	<4.9	<9.8	<49	NM	NM	NM	NM	NM	NM
Cell #1 S-1	20-Sep-17	NM	<4.6	<9.9	<50	NM	NM	NM	NM	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	TPH mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Benzene mg/kg	Toluene mg/kg	Ethyl-Benzene mg/kg	Total Xylenes mg/kg	Chloride mg/kg	Fluoride mg/kg
Analytical Method		418.1	8015D	8015M/D	8015M/D	8021B/8260B	8021B/8260B	8021B/8260B	8021B/8260B	300.0	300.0
Approved Background		20	20			0.05	0.05	0.05	0.1	25	0.6
Cell #1 S-1	06-Dec-17	NM	<4.7	<9.2	<46	NM	NM	NM	NM	140	1.8
Cell #1 S-1	13-Mar-18	<19	NM	NM	NM	<0.025	<0.050	<0.050	<0.10	630	NM
Cell #1 S-1	24-Jul-18	NM	<4.7	<9.8	<49	<0.023	<0.047	<0.047	<0.093	NM	NM
Cell #1 S-1	17-Sep-18	<19	NM	NM	NM	<0.025	<0.050	<0.050	<0.099	370	1.6
Cell #1 S-1	19-Dec-18	NM	<4.9	<9.8	68	<0.024	<0.049	<0.049	<0.097	NM	NM
Cell #1 S-1	28-Mar-19	<20	NM	NM	NM	<0.024	<0.047	<0.047	<0.095	210	NM
Cell #1 S-1	02-Apr-20	<17	NM	NM	NM	<0.025	<0.049	<0.049	<0.099	220	<1.5
Cell #1 S-1	16-Jun-21	NM	<4.6	<10	<50	<0.023	<0.046	<0.046	<0.093	32	2.9
Cell #1 S-1	09-Mar-22	NM	<5.0	<9.2	<46	<0.025	<0.050	<0.050	<0.10	NM	NM
Cell #1 S-1	15-Jun-22	<18	NM	NM	NM	<0.025	<0.050	<0.050	<0.10	NM	NM
Cell #1 S-1	27-Sep-22	<20	NM	NM	NM	<0.024	<0.048	<0.048	<0.097	NM	NM
Cell #1 S-1	29-Nov-22	NM	<4.6	<15	<50	<0.023	<0.046	<0.046	<0.093	970	3.2
VZ Cell #1B	29-Mar-13	NM	<5.0	12	51	<0.050	<0.050	<0.050	<0.10	<7.5	2.8
Cell #1 S-2	6-May-14	<20	NM	NM	NM	<0.047	<0.047	<0.047	<0.094	98	0.96
Cell #1 S-2	1-Oct-14	<20	NM	NM	NM	<0.047	<0.047	<0.047	<0.093	230	NM
Cell #1 S-2	9-Dec-14	<20	NM	NM	NM	<0.049	<0.049	<0.049	<0.098	<30	NM
Cell #1 S-2	27-Mar-15	<20	NM	NM	NM	<0.047	<0.047	<0.047	<0.094	<30	NM
Cell #1 S-2	24-Jun-15	NM	<4.9	<9.7	<49	<0.049	<0.049	<0.049	<0.098	NM	NM
Cell #1 S-2	24-Sep-15	NM	<4.8	<10	<50	<0.048	<0.048	<0.048	<0.097	2.1	1.2
Cell #1 S-2	09-Dec-15	NM	<4.7	<10	<51	<0.047	<0.047	<0.047	<0.095	NM	NM
Cell #1 S-2	07-Mar-16	<19	NM	NM	NM	<0.048	<0.048	<0.048	<0.096	<30	NM
Cell #1 S-2	16-Jun-16	<19	NM	NM	NM	<0.023	<0.047	<0.047	<0.093	<30	NM

TABLE 4
VADOSE ZONE SOIL ANALYTICAL RESULTS
BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	TPH mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Benzene mg/kg	Toluene mg/kg	Ethyl-Benzene mg/kg	Total Xylenes mg/kg	Chloride mg/kg	Fluoride mg/kg
Analytical Method		418.1	8015D	8015M/D	8015M/D	8021B/8260B	8021B/8260B	8021B/8260B	8021B/8260B	300.0	300.0
Approved Background		20	20			0.05	0.05	0.05	0.1	25	0.6
Cell #1 S-2	22-Sep-16	NM	<5.0	<9.8	<49	<0.025	<0.050	<0.050	<0.10	99	1.7
Cell #1 S-2	15-Dec-16	NM	<4.7	<10	<50	<0.024	<0.047	<0.047	<0.094	NM	NM
Cell #1 S-2	13-Apr-17	<19	NM	NM	NM	<0.023	<0.046	<0.046	<0.093	<30	NM
Cell #1 S-2	22-Jun-17	NM	<4.7	<9.9	<50	NM	NM	NM	NM	NM	NM
Cell #1 S-2	20-Sep-17	NM	<4.7	<9.8	<49	NM	NM	NM	NM	NM	NM
Cell #1 S-2	06-Dec-17	NM	<4.7	<9.4	<47	NM	NM	NM	NM	70	<1.5
Cell #1 S-2	13-Mar-18	<19	NM	NM	NM	<0.023	<0.047	<0.047	<0.094	<30	NM
Cell #1 S-2	24-Jul-18	NM	<4.9	<9.8	<49	<0.025	<0.049	<0.049	<0.098	NM	NM
Cell #1 S-2	17-Sep-18	<19	NM	NM	NM	<0.024	<0.047	<0.047	<0.095	36	1.9
Cell #1 S-2	19-Dec-18	NM	<4.9	<9.5	<47	<0.025	<0.049	<0.049	<0.099	NM	NM
Cell #1 S-2	28-Mar-19	<19	NM	NM	NM	<0.025	<0.050	<0.050	<0.10	66	NM
Cell #1 S-2	02-Apr-20	<18	NM	NM	NM	<0.024	<0.049	<0.049	<0.097	240	NM
Cell #1 S-2	16-Jun-21	NM	<4.9	<9.6	<48	<0.024	<0.049	<0.049	<0.097	66	NM
Cell #1 S-2	15-Jun-22	<19	NM	NM	NM	<0.024	<0.049	<0.049	<0.097	NM	NM
VZ Cell #1C	29-Mar-13	NM	<5.0	24	80	<0.050	<0.050	<0.050	<0.10	<7.5	3.5
Cell #1 S-3	6-May-14	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.096	37	1.7
Cell #1 S-3	1-Oct-14	<20	NM	NM	NM	<0.047	<0.047	<0.047	<0.094	<30	NM
Cell #1 S-3	9-Dec-14	<20	NM	NM	NM	<0.049	<0.049	<0.049	<0.097	<30	NM
Cell #1 S-3	27-Mar-15	<20	NM	NM	NM	<0.046	<0.046	<0.046	<0.092	39	NM
Cell #1 S-3	24-Jun-15	NM	<5.0	<9.8	<49	<0.050	<0.050	<0.050	<0.10	NM	NM
Cell #1 S-3	24-Sep-15	NM	<4.8	<9.9	<50	<0.048	<0.048	<0.048	<0.097	<7.5	2.0
Cell #1 S-3	09-Dec-15	NM	<4.9	<10	<50	<0.049	<0.049	<0.049	<0.099	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	TPH mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Benzene mg/kg	Toluene mg/kg	Ethyl-Benzene mg/kg	Total Xylenes mg/kg	Chloride mg/kg	Fluoride mg/kg
Analytical Method		418.1	8015D	8015M/D	8015M/D	8021B/8260B	8021B/8260B	8021B/8260B	8021B/8260B	300.0	300.0
Approved Background		20	20			0.05	0.05	0.05	0.1	25	0.6
Cell #1 S-3	07-Mar-16	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.097	<30	NM
Cell #1 S-3	16-Jun-16	<19	NM	NM	NM	<0.023	<0.047	<0.047	<0.093	66	NM
Cell #1 S-3	22-Sep-16	NM	<5.0	<9.6	<48	<0.025	<0.050	<0.050	<0.10	20	1.2
Cell #1 S-3	15-Dec-16	NM	<4.9	<9.7	<48	<0.024	<0.049	<0.049	<0.097	NM	NM
Cell #1 S-3	13-Apr-17	<19	NM	NM	NM	<0.023	<0.047	<0.047	<0.094	<30	NM
Cell #1 S-3	22-Jun-17	NM	<4.7	<9.8	<49	NM	NM	NM	NM	NM	NM
Cell #1 S-3	20-Sep-17	NM	<4.7	<9.4	<47	NM	NM	NM	NM	NM	NM
Cell #1 S-3	06-Dec-17	NM	<4.9	<9.4	<47	NM	NM	NM	NM	2.30	1.2
Cell #1 S-3	13-Mar-18	<19	NM	NM	NM	<0.024	<0.048	<0.048	<0.096	<30	NM
Cell #1 S-3	24-Jul-18	NM	<4.9	<9.8	<49	<0.025	<0.049	<0.049	<0.099	NM	NM
Cell #1 S-3	17-Sep-18	<19	NM	NM	NM	<0.024	<0.048	<0.048	<0.096	<7.5	<1.5
Cell #1 S-3	19-Dec-18	NM	<4.8	<9.9	<4.9	<0.024	<0.048	<0.048	<0.096	NM	NM
Cell #1 S-3	28-Mar-19	<20	NM	NM	NM	<0.025	<0.049	<0.049	<0.099	<60	NM
Cell #1 S-3	02-Apr-20	<19	NM	NM	NM	<0.024	<0.049	<0.049	<0.098	<60	NM
Cell #1 S-3	16-Jun-21	NM	<4.6	<9.1	<45	<0.023	<0.046	<0.046	<0.092	<60	NM
Cell #1 S-3	15-Jun-22	<18	NM	NM	NM	<0.025	<0.050	<0.050	<0.10	NM	NM
VZ Cell #1D	29-Mar-13	NM	<5.0	19	56	<0.050	<0.050	<0.050	<0.10	34	2.1
Cell #1 S-4	6-May-14	<20	NM	NM	NM	<0.047	<0.047	<0.047	<0.093	280	0.98
Cell #1 S-4	1-Oct-14	<20	NM	NM	NM	<0.047	<0.047	<0.047	<0.094	<30	NM
Cell #1 S-4	9-Dec-14	<20	NM	NM	NM	<0.050	<0.050	<0.050	<0.099	110	NM
Cell #1 S-4	27-Mar-15	<20	NM	NM	NM	<0.047	<0.047	<0.047	<0.094	730	NM
Cell #1 S-4	24-Jun-15	NM	<4.8	<9.9	<49	<0.048	<0.048	<0.048	<0.097	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	TPH mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Benzene mg/kg	Toluene mg/kg	Ethyl-Benzene mg/kg	Total Xylenes mg/kg	Chloride mg/kg	Fluoride mg/kg
Analytical Method		418.1	8015D	8015M/D	8015M/D	8021B/8260B	8021B/8260B	8021B/8260B	8021B/8260B	300.0	300.0
Approved Background		20	20			0.05	0.05	0.05	0.1	25	0.6
Cell #1 S-4	24-Sep-15	NM	<4.8	<10	<50	<0.048	<0.048	<0.048	<0.097	120	2.6
Cell #1 S-4	09-Dec-15	NM	<4.8	<9.9	<49	<0.048	<0.048	<0.048	<0.096	NM	NM
Cell #1 S-4	07-Mar-16	<20	NM	NM	NM	<0.049	<0.049	<0.049	<0.098	<30	NM
Cell #1 S-4	16-Jun-16	<20	NM	NM	NM	<0.023	<0.046	<0.046	<0.092	<30	NM
Cell #1 S-4	22-Sep-16	NM	<4.6	<10	<51	<0.023	<0.046	<0.046	<0.091	<1.5	0.55
Cell #1 S-4	15-Dec-16	NM	<4.9	<9.6	<48	<0.024	<0.049	<0.049	<0.097	NM	NM
Cell #1 S-4	13-Apr-17	<19	NM	NM	NM	<0.025	<0.049	<0.049	<0.099	<30	NM
Cell #1 S-4	22-Jun-17	NM	<4.7	<9.8	<49	NM	NM	NM	NM	NM	NM
Cell #1 S-4	20-Sep-17	NM	<4.8	<10	<50	NM	NM	NM	NM	NM	NM
Cell #1 S-4	06-Dec-17	NM	<4.8	<9.6	<48	NM	NM	NM	NM	6.10	0.42
Cell #1 S-4	13-Mar-18	<19	NM	NM	NM	<0.024	<0.049	<0.049	<0.097	<30	NM
Cell #1 S-4	24-Jul-18	NM	<5.0	<9.8	<49	<0.025	<0.050	<0.050	<0.099	NM	NM
Cell #1 S-4	17-Sep-18	<19	NM	NM	NM	<0.023	<0.046	<0.046	<0.092	<7.5	<1.5
Cell #1 S-4	19-Dec-18	NM	<4.7	<9.6	<48	<0.024	<0.047	<0.047	<0.094	NM	NM
Cell #1 S-4	28-Mar-19	<20	NM	NM	NM	<0.025	<0.049	<0.049	<0.099	<60	NM
Cell #1 S-4	02-Apr-20	<19	NM	NM	NM	<0.025	<0.049	<0.049	<0.099	<60	NM
Cell #1 S-4	16-Jun-21	NM	<4.6	<10	<50	<0.023	<0.046	<0.046	<0.093	<60	NM
Cell #1 S-4	15-Jun-22	<19	NM	NM	NM	<0.025	<0.050	<0.050	<0.10	NM	NM
VZ Cell #2	18-Sep-12	NM	<5.0	<9.9	NM	<0.050	<0.050	<0.050	<0.10	15	<3.0
VZ Cell #2	6-Dec-12	NM	<5.0	<10	<50	<0.050	<0.050	<0.050	<0.10	<7.5	NM
VZ Cell #2	29-Mar-13	NM	<5.0	<10	<50	<0.050	<0.050	<0.050	<0.10	<7.5	<1.5
VZ Cell #2	1-Jul-13	NM	<5.0	<10	<50	<0.050	<0.050	<0.050	<0.10	<7.5	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	TPH mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Benzene mg/kg	Toluene mg/kg	Ethyl-Benzene mg/kg	Total Xylenes mg/kg	Chloride mg/kg	Fluoride mg/kg
Analytical Method		418.1	8015D	8015M/D	8015M/D	8021B/8260B	8021B/8260B	8021B/8260B	8021B/8260B	300.0	300.0
Approved Background		20	20			0.05	0.05	0.05	0.1	25	0.6
VZ Cell #2	9-Oct-13	NM	<5.0	<10	<50	<0.050	<0.050	<0.050	<0.10	1.6	0.85
VZ Cell #2	31-Mar-14	<20	<2.8	<9.9	<50	<0.028	<0.028	<0.028	<0.056	<30	NM
Cell #2 CS-1	09-Mar-22	NM	NM	NM	NM	NM	NM	NM	NM	23	<1.5
Cell #2 S-1	08-May-14	<20	NM	NM	NM	<0.047	<0.047	<0.047	<0.093	6.2	0.69
Cell #2 S-1	01-Oct-14	<20	NM	NM	NM	<0.047	<0.047	<0.047	<0.095	<30	NM
Cell #2 S-1	09-Dec-14	<20	NM	NM	NM	<0.047	<0.047	<0.047	<0.094	<30	NM
Cell #2 S-1	27-Mar-15	<20	NM	NM	NM	<0.049	<0.049	<0.049	<0.099	<30	NM
Cell #2 S-1	24-Jun-15	NM	<4.9	<10	<50	<0.049	<0.049	<0.049	<0.098	NM	NM
Cell #2 S-1	24-Sep-15	NM	<4.8	<9.9	<49	<0.048	<0.048	<0.048	<0.097	87	0.46
Cell #2 S-1	09-Dec-15	NM	<5.0	<10	<50	<0.050	<0.050	<0.050	<0.099	NM	NM
Cell #2 S-1	07-Mar-16	<19	NM	NM	NM	<0.049	<0.049	<0.049	<0.099	<30	NM
Cell #2 S-1	16-Jun-16	<20	NM	NM	NM	<0.025	<0.050	<0.050	<0.099	52	NM
Cell #2 S-1	22-Sep-16	NM	<4.8	<9.8	<49	<0.024	<0.048	<0.048	<0.097	17	1.0
Cell #2 S-1	15-Dec-16	NM	<4.9	<9.3	<47	<0.024	<0.049	<0.049	<0.098	NM	NM
Cell #2 S-1	13-Apr-17	43	NM	NM	NM	<0.024	<0.047	<0.047	<0.095	<30	NM
Cell #2 S-1	22-Jun-17	NM	<4.9	<9.4	<47	NM	NM	NM	NM	NM	NM
Cell #2 S-1	20-Sep-17	NM	<4.7	<9.9	<49	NM	NM	NM	NM	NM	NM
Cell #2 S-1	06-Dec-17	NM	<4.8	<9.5	<47	NM	NM	NM	NM	17	0.94
Cell #2 S-1	13-Mar-18	550	NM	NM	NM	<0.025	<0.049	<0.049	<0.098	<30	NM
Cell #2 S-1	24-Jul-18	NM	<5.0	<9.3	<46	<0.025	<0.050	<0.050	<0.10	NM	NM
Cell #2 S-1	17-Sep-18	<19	NM	NM	NM	<0.024	<0.047	<0.047	<0.094	10	<1.5

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	TPH mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Benzene mg/kg	Toluene mg/kg	Ethyl-Benzene mg/kg	Total Xylenes mg/kg	Chloride mg/kg	Fluoride mg/kg
Analytical Method		418.1	8015D	8015M/D	8015M/D	8021B/8260B	8021B/8260B	8021B/8260B	8021B/8260B	300.0	300.0
Approved Background		20	20			0.05	0.05	0.05	0.1	25	0.6
Cell #2 S-1	19-Dec-18	NM	<4.8	<9.8	<49	<0.024	<0.048	<0.048	<0.095	NM	NM
Cell #2 S-1	28-Mar-19	<19	NM	NM	NM	<0.024	<0.048	<0.048	<0.097	<60	NM
Cell #2 S-1	02-Apr-20	<19	NM	NM	NM	<0.025	<0.049	<0.049	<0.099	12	<1.5
Cell #2 S-1	16-Jun-21	NM	<4.8	<9.9	<50	<0.024	<0.048	<0.048	<0.095	29	<1.5
Cell #2 S-1	09-Mar-22	NM	<4.8	<9.8	<49	<0.024	<0.048	<0.048	<0.097	NM	NM
Cell #2 S-1	15-Jun-22	71	NM	NM	NM	<0.025	<0.049	<0.049	<0.10	NM	NM
Cell #2 S-2	8-May-14	<20	NM	NM	NM	<0.047	<0.047	<0.047	<0.095	9.5	0.9
Cell #2 S-2	1-Oct-14	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.096	37	NM
Cell #2 S-2	9-Dec-14	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.096	<30	NM
Cell #2 S-2	27-Mar-15	<20	NM	NM	NM	<0.049	<0.049	<0.049	<0.098	<30	NM
Cell #2 S-2	24-Jun-15	NM	<4.8	<9.6	<48	<0.048	<0.048	<0.048	<0.097	NM	NM
Cell #2 S-2	24-Sep-15	NM	<4.9	<9.8	<49	<0.049	<0.049	<0.049	<0.097	37	0.83
Cell #2 S-2	09-Dec-15	NM	<5.0	<9.9	<49	<0.050	<0.050	<0.050	<0.10	NM	NM
Cell #2 S-2	07-Mar-16	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.095	<30	NM
Cell #2 S-2	16-Jun-16	<20	NM	NM	NM	<0.023	<0.046	<0.046	<0.092	<30	NM
Cell #2 S-2	22-Sep-16	NM	<4.6	<9.7	<48	<0.023	<0.046	<0.046	<0.093	8.9	0.48
Cell #2 S-2	15-Dec-16	NM	<4.8	<9.3	<47	<0.024	<0.048	<0.048	<0.095	NM	NM
Cell #2 S-2	13-Apr-17	<19	NM	NM	NM	<0.025	<0.050	<0.050	<0.10	<30	NM
Cell #2 S-2	22-Jun-17	NM	<4.8	<9.5	<48	NM	NM	NM	NM	NM	NM
Cell #2 S-2	20-Sep-17	NM	<4.7	<9.2	<46	NM	NM	NM	NM	NM	NM
Cell #2 S-2	06-Dec-17	NM	<4.7	<9.5	<47	NM	NM	NM	NM	32	0.76
Cell #2 S-2	13-Mar-18	<19	NM	NM	NM	<0.024	<0.049	<0.049	<0.098	<30	NM

TABLE 4
VADOSE ZONE SOIL ANALYTICAL RESULTS
BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	TPH mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Benzene mg/kg	Toluene mg/kg	Ethyl- Benzene mg/kg	Total Xylenes mg/kg	Chloride mg/kg	Fluoride mg/kg
Analytical Method		418.1	8015D	8015M/D	8015M/D	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	300.0	300.0
Approved Background		20	20			0.05	0.05	0.05	0.1	25	0.6
Cell #2 S-2	24-Jul-18	NM	<4.6	<9.6	<48	<0.023	<0.046	<0.046	<0.092	NM	NM
Cell #2 S-2	17-Sep-18	<19	NM	NM	NM	<0.024	<0.049	<0.049	<0.098	12	<1.5
Cell #2 S-2	19-Dec-18	NM	<4.9	<9.6	<48	<0.024	<0.049	<0.049	<0.098	NM	NM
Cell #2 S-2	28-Mar-19	<20	NM	NM	NM	<0.024	<0.048	<0.048	<0.096	<59	NM
Cell #2 S-2	02-Apr-20	<20	NM	NM	NM	<0.024	<0.048	<0.048	<0.097	<60	NM
Cell #2 S-2	16-Jun-21	NM	<4.6	<9.9	<49	<0.023	<0.046	<0.046	<0.092	<60	NM
Cell #2 S-2	15-Jun-22	<18	NM	NM	NM	<0.025	<0.050	<0.050	<0.10	NM	NM
Cell #2 S-2	27-Sep-22	<19	NM	NM	NM	<0.025	<0.049	<0.049	<0.099	NM	NM
Cell #2 S-2	29-Nov-22	NM	<4.9	<14	<48	<0.024	<0.049	<0.049	<0.097	16	<1.5
Cell #2 S-3	8-May-14	870	NM	NM	NM	<0.048	<0.048	<0.048	<0.096	15	1.6
Cell #2 S-3	1-Oct-14	46	NM	NM	NM	<0.048	<0.048	<0.048	<0.095	<30	NM
Cell #2 S-3	9-Dec-14	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.095	<30	NM
Cell #2 S-3	27-Mar-15	<20	NM	NM	NM	<0.047	<0.047	<0.047	<0.093	<30	NM
Cell #2 S-3	24-Jun-15	NM	<4.7	<9.7	<48	<0.047	<0.047	<0.047	<0.095	NM	NM
Cell #2 S-3	24-Sep-15	NM	<4.8	450	920	<0.048	<0.048	<0.048	<0.097	13	0.99
Cell #2 S-3	09-Dec-15	NM	<4.9	<9.8	<49	<0.049	<0.049	<0.049	<0.099	NM	NM
Cell #2 S-3	07-Mar-16	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.097	<30	NM
Cell #2 S-3	16-Jun-16	<20	NM	NM	NM	<0.024	<0.047	<0.047	<0.095	<30	NM
Cell #2 S-3	22-Sep-16	NM	<4.7	<9.9	<50	<0.024	<0.047	<0.047	<0.094	13	0.64
Cell #2 S-3	15-Dec-16	NM	<5.0	<9.9	<50	<0.025	<0.050	<0.050	<0.099	NM	NM
Cell #2 S-3	13-Apr-17	34	NM	NM	NM	<0.023	<0.046	<0.046	<0.092	<30	NM
Cell #2 S-3	22-Jun-17	NM	<4.8	<10	<50	NM	NM	NM	NM	NM	NM

TABLE 4
VADOSE ZONE SOIL ANALYTICAL RESULTS
BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	TPH mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Benzene mg/kg	Toluene mg/kg	Ethyl- Benzene mg/kg	Total Xylenes mg/kg	Chloride mg/kg	Fluoride mg/kg
Analytical Method		418.1	8015D	8015M/D	8015M/D	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	300.0	300.0
Approved Background		20	20			0.05	0.05	0.05	0.1	25	0.6
Cell #2 S-3	20-Sep-17	NM	<4.8	<10	<50	NM	NM	NM	NM	NM	NM
Cell #2 S-3	06-Dec-17	NM	<4.8	17	<47	NM	NM	NM	NM	14.0	<0.30
Cell #2 S-3	13-Mar-18	<19	NM	NM	NM	<0.024	<0.049	<0.049	<0.097	<30	NM
Cell #2 S-3	24-Jul-18	NM	4.7	<9.4	<47	<0.024	<0.047	<0.047	<0.094	NM	NM
Cell #2 S-3	17-Sep-18	<20	NM	NM	NM	<0.025	<0.050	<0.050	<0.099	10	<1.5
Cell #2 S-3	19-Dec-18	NM	<4.8	<9.5	<48	<0.024	<0.048	<0.048	<0.096	NM	NM
Cell #2 S-3	28-Mar-19	<20	NM	NM	NM	<0.024	<0.048	<0.048	<0.097	<60	NM
Cell #2 S-3	02-Apr-20	<19	NM	NM	NM	<0.025	<0.050	<0.050	<0.10	<60	NM
Cell #2 S-3	16-Jun-21	NM	<4.7	<9.7	<48	<0.024	<0.047	<0.047	<0.095	<60	NM
Cell #2 S-3	15-Jun-22	<17	NM	NM	NM	<0.025	<0.049	<0.049	<0.098	NM	NM
Cell #2 S-4	8-May-14	<20	NM	NM	NM	<0.047	<0.047	<0.047	<0.094	<7.5	<1.5
Cell #2 S-4	1-Oct-14	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.096	<30	NM
Cell #2 S-4	9-Dec-14	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.097	<30	NM
Cell #2 S-4	27-Mar-15	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.096	<30	NM
Cell #2 S-4	24-Jun-15	NM	<5.0	<9.8	<49	<0.050	<0.050	<0.050	<0.099	NM	NM
Cell #2 S-4	24-Sep-15	NM	<4.8	<9.9	<49	<0.048	<0.048	<0.048	<0.097	14	<1.5
Cell #2 S-4	09-Dec-15	NM	<4.9	<9.7	<49	<0.049	<0.049	<0.049	<0.097	NM	NM
Cell #2 S-4	07-Mar-16	<20	NM	NM	NM	<0.049	<0.049	<0.049	<0.098	<30	NM
Cell #2 S-4	16-Jun-16	<20	NM	NM	NM	<0.023	<0.046	<0.046	<0.092	<30	NM
Cell #2 S-4	22-Sep-16	NM	<4.8	<9.2	<46	<0.024	<0.048	<0.048	<0.096	8.2	0.48
Cell #2 S-4	15-Dec-16	NM	<4.7	<9.4	<47	<0.023	<0.047	<0.047	<0.093	NM	NM
Cell #2 S-4	13-Apr-17	710	NM	NM	NM	<0.024	<0.048	<0.048	<0.095	<30	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	TPH mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Benzene mg/kg	Toluene mg/kg	Ethyl-Benzene mg/kg	Total Xylenes mg/kg	Chloride mg/kg	Fluoride mg/kg
Analytical Method		418.1	8015D	8015M/D	8015M/D	8021B/8260B	8021B/8260B	8021B/8260B	8021B/8260B	300.0	300.0
Approved Background		20	20			0.05	0.05	0.05	0.1	25	0.6
Cell #2 S-4	22-Jun-17	NM	<4.9	<9.4	<47	NM	NM	NM	NM	NM	NM
Cell #2 S-4	20-Sep-17	NM	<4.8	<9.3	<47	NM	NM	NM	NM	NM	NM
Cell #2 S-4	06-Dec-17	NM	<4.6	<10	<51	NM	NM	NM	NM	41	0.72
Cell #2 S-4	13-Mar-18	<18	NM	NM	NM	<0.024	<0.047	<0.047	<0.095	<30	NM
Cell #2 S-4	24-Jul-18	NM	<5.0	<9.4	<47	<0.025	<0.050	<0.050	<0.10	NM	NM
Cell #2 S-4	17-Sep-18	<20	NM	NM	NM	<0.025	<0.049	<0.049	<0.099	40	0.35
Cell #2 S-4	19-Dec-18	NM	<4.7	17	<50	<0.024	<0.047	<0.047	<0.095	NM	NM
Cell #2 S-4	28-Mar-19	<20	NM	NM	NM	<0.025	<0.049	<0.049	<0.098	<61	NM
Cell #2 S-4	02-Apr-20	<19	NM	NM	NM	<0.025	<0.049	<0.049	<0.099	<60	NM
Cell #2 S-4	16-Jun-21	NM	<4.7	<9.6	<48	<0.024	<0.047	<0.047	<0.094	67	NM
Cell #2 S-4	15-Jun-22	<18	NM	NM	NM	<0.025	<0.049	<0.049	<0.098	NM	NM
VZ Cell #3	18-Sep-12	NM	<5.0	<10	NM	<0.050	<0.050	<0.050	<0.10	<15	<3.0
VZ Cell #3	06-Dec-12	NM	<5.0	71	150	<0.050	<0.050	<0.050	<0.10	<7.5	NM
VZ Cell #3	01-Jul-13	NM	<5.0	16	<50	<0.050	<0.050	<0.050	<0.10	8.6	NM
VZ Cell #3	09-Oct-13	NM	<5.0	<10	<50	<0.050	<0.050	<0.050	<0.10	<1.5	2.1
VZ Cell #3	31-Mar-14	<20	<2.5	11	<50	<0.025	<0.025	<0.025	<0.049	<30	NM
Cell #3 CS-1	09-Mar-22	NM	NM	NM	NM	NM	NM	NM	NM	11	2.9
VZ Cell #3A	29-Mar-13	NM	<5.0	<9.8	<49	<0.050	<0.050	<0.050	<0.10	<7.5	3.8
Cell #3 S-1	08-May-14	<20	NM	NM	NM	<0.047	<0.047	<0.047	<0.093	15	0.38
Cell #3 S-1	01-Oct-14	<20	NM	NM	NM	<0.050	<0.050	<0.050	<0.099	<30	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	TPH mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Benzene mg/kg	Toluene mg/kg	Ethyl-Benzene mg/kg	Total Xylenes mg/kg	Chloride mg/kg	Fluoride mg/kg
Analytical Method		418.1	8015D	8015M/D	8015M/D	8021B/8260B	8021B/8260B	8021B/8260B	8021B/8260B	300.0	300.0
Approved Background		20	20			0.05	0.05	0.05	0.1	25	0.6
Cell #3 S-1	03-Dec-14	<20	NM	NM	NM	<0.047	<0.047	<0.047	<0.093	<1.5	NM
Cell #3 S-1	27-Mar-15	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.096	<30	NM
Cell #3 S-1	24-Jun-15	NM	<4.7	<9.7	<49	<0.047	<0.047	<0.047	<0.094	NM	NM
Cell #3 S-1	24-Sep-15	NM	<4.8	<10	<50	<0.048	<0.048	<0.048	<0.097	19	0.63
Cell #3 S-1	09-Dec-15	NM	<4.7	<9.9	<50	<0.047	<0.047	<0.047	<0.094	NM	NM
Cell #3 S-1	07-Mar-16	<19	NM	NM	NM	<0.048	<0.048	<0.048	<0.097	<30	NM
Cell #3 S-1	16-Jun-16	<19	NM	NM	NM	<0.023	<0.046	<0.046	<0.093	<30	NM
Cell #3 S-1	22-Sep-16	NM	<4.8	<9.8	<49	<0.024	<0.048	<0.048	<0.095	<1.5	0.83
Cell #3 S-1	15-Dec-16	NM	<5.0	<9.9	<50	<0.025	<0.050	<0.050	<0.10	NM	NM
Cell #3 S-1	13-Apr-17	<19	NM	NM	NM	<0.023	<0.046	<0.046	<0.092	<30	NM
Cell #3 S-1	22-Jun-17	NM	<4.9	<9.7	<48	NM	NM	NM	NM	NM	NM
Cell #3 S-1	20-Sep-17	NM	<4.7	<9.6	<48	NM	NM	NM	NM	NM	NM
Cell #3 S-1	06-Dec-17	NM	<4.9	<10	<51	NM	NM	NM	NM	3.9	0.51
Cell #3 S-1	13-Mar-18	<19	NM	NM	NM	<0.024	<0.048	<0.048	<0.097	<30	NM
Cell #3 S-1	24-Jul-18	NM	<4.7	<9.3	<46	<0.024	<0.047	<0.047	<0.094	NM	NM
Cell #3 S-1	17-Sep-18	<20	NM	NM	NM	<0.024	<0.047	<0.047	<0.094	<7.5	<1.5
Cell #3 S-1	19-Dec-18	NM	<4.8	<10	<50	<0.024	<0.048	<0.048	<0.097	NM	NM
Cell #3 S-1	28-Mar-19	<19	NM	NM	NM	<0.024	<0.048	<0.048	<0.096	<60	NM
Cell #3 S-1	02-Apr-20	59	NM	NM	NM	<0.025	<0.050	<0.050	<0.10	11	<1.5
Cell #3 S-1	16-Jun-21	NM	<4.7	<8.9	<44	<0.024	<0.047	<0.047	<0.095	13	<1.5
Cell #3 S-1	26-Oct-21	NM	<4.7	50	59	<0.024	<0.047	<0.047	<0.095	NM	NM
Cell #3 S-1	15-Jun-22	<17	NM	NM	NM	<0.024	<0.049	<0.049	<0.097	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	TPH mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Benzene mg/kg	Toluene mg/kg	Ethyl-Benzene mg/kg	Total Xylenes mg/kg	Chloride mg/kg	Fluoride mg/kg
Analytical Method		418.1	8015D	8015M/D	8015M/D	8021B/8260B	8021B/8260B	8021B/8260B	8021B/8260B	300.0	300.0
Approved Background		20	20			0.05	0.05	0.05	0.1	25	0.6
VZ Cell #3B	29-Mar-13	NM	<5.0	41	60	<0.050	<0.050	<0.050	<0.10	<7.5	3.9
Cell #3 S-2	8-May-14	<20	NM	NM	NM	<0.047	<0.047	<0.047	<0.094	20	1.3
Cell #3 S-2	1-Oct-14	36	NM	NM	NM	<0.049	<0.049	<0.049	<0.097	<30	NM
Cell #3 S-2	3-Dec-14	<20	NM	NM	NM	<0.047	<0.047	<0.047	<0.095	1.7	NM
Cell #3 S-2	27-Mar-15	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.096	<30	NM
Cell #3 S-2	24-Jun-15	NM	<5.0	<9.8	<49	<0.050	<0.050	<0.050	<0.10	NM	NM
Cell #3 S-2	24-Sep-15	NM	<4.8	<9.9	<49	<0.048	<0.048	<0.048	<0.096	3.7	2.0
Cell #3 S-2	09-Dec-15	NM	<4.8	<9.5	<47	<0.048	<0.048	<0.048	<0.096	NM	NM
Cell #3 S-2	07-Mar-16	<20	NM	NM	NM	<0.049	<0.049	<0.049	<0.098	<30	NM
Cell #3 S-2	16-Jun-16	<20	NM	NM	NM	<0.024	<0.047	<0.047	<0.095	<30	NM
Cell #3 S-2	22-Sep-16	NM	<4.8	<10	<50	<0.024	<0.048	<0.048	<0.096	9.6	<1.5
Cell #3 S-2	15-Dec-16	NM	<4.8	<9.5	<47	<0.024	<0.048	<0.048	<0.096	NM	NM
Cell #3 S-2	13-Apr-17	<18	NM	NM	NM	<0.023	<0.047	<0.047	<0.094	<30	NM
Cell #3 S-2	22-Jun-17	NM	<4.8	<10	<50	NM	NM	NM	NM	NM	NM
Cell #3 S-2	20-Sep-17	NM	<4.7	<9.8	<49	NM	NM	NM	NM	NM	NM
Cell #3 S-2	06-Dec-17	NM	<4.9	<9.7	<48	NM	NM	NM	NM	<7.5	<1.5
Cell #3 S-2	13-Mar-18	<19	NM	NM	NM	<0.024	<0.049	<0.049	<0.097	<30	NM
Cell #3 S-2	24-Jul-18	NM	<4.7	<9.2	<46	<0.023	<0.047	<0.047	<0.094	NM	NM
Cell #3 S-2	17-Sep-18	<20	NM	NM	NM	<0.024	<0.048	<0.048	<0.095	9.5	1.6
Cell #3 S-2	19-Dec-18	NM	<4.7	<9.7	<48	<0.023	<0.047	<0.047	<0.094	NM	NM
Cell #3 S-2	28-Mar-19	<19	NM	NM	NM	<0.024	<0.048	<0.048	<0.095	<60	NM
Cell #3 S-2	02-Apr-20	20	NM	NM	NM	<0.025	<0.050	<0.050	<0.099	<60	NM
Cell #3 S-2	16-Jun-21	NM	<4.7	<9.5	<47	<0.024	<0.047	<0.047	<0.095	<60	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	TPH mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Benzene mg/kg	Toluene mg/kg	Ethyl-Benzene mg/kg	Total Xylenes mg/kg	Chloride mg/kg	Fluoride mg/kg
Analytical Method		418.1	8015D	8015M/D	8015M/D	8021B/8260B	8021B/8260B	8021B/8260B	8021B/8260B	300.0	300.0
Approved Background		20	20			0.05	0.05	0.05	0.1	25	0.6
Cell #3 S-2	26-Oct-21	NM	<5.0	200	550	<0.025	<0.050	<0.050	<0.10	NM	NM
Cell #3 S-2	09-Mar-22	NM	<4.7	<9.6	<48	<0.024	<0.047	<0.047	<0.094	NM	NM
Cell #3 S-2	15-Jun-22	<17	NM	NM	NM	<0.025	<0.049	<0.049	<0.099	NM	NM
VZ Cell #3C	29-Mar-13	NM	<5.0	<10	<50	<0.050	<0.050	<0.050	<0.10	<7.5	3.4
Cell #3 S-3	8-May-14	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.096	7.6	1.5
Cell #3 S-3	1-Oct-14	170	NM	NM	NM	<0.048	<0.048	<0.048	<0.096	<30	NM
Cell #3 S-3	3-Dec-14	<20	NM	NM	NM	<0.047	<0.047	<0.047	<0.093	6.1	NM
Cell #3 S-3	27-Mar-15	63	NM	NM	NM	<0.050	<0.050	<0.050	<0.10	<30	NM
Cell #3 S-3	24-Jun-15	NM	<4.8	<10	<50	<0.048	<0.048	<0.048	<0.096	NM	NM
Cell #3 S-3	24-Sep-15	NM	<4.8	<10	<50	<0.048	<0.048	<0.048	<0.097	7.7	0.56
Cell #3 S-3	09-Dec-15	NM	<4.7	<9.9	<49	<0.047	<0.047	<0.047	<0.094	NM	NM
Cell #3 S-3	07-Mar-16	5,300	NM	NM	NM	<0.047	<0.047	<0.047	<0.093	<30	NM
Cell #3 S-3	16-Jun-16	<20	NM	NM	NM	<0.024	<0.049	<0.049	<0.098	<30	NM
Cell #3 S-3	22-Sep-16	NM	<4.8	<9.9	<50	<0.024	<0.048	<0.048	<0.097	5.2	1.8
Cell #3 S-3	15-Dec-16	NM	<4.8	15	<50	<0.024	<0.048	<0.048	<0.096	NM	NM
Cell #3 S-3	13-Apr-17	<19	NM	NM	NM	<0.025	<0.049	<0.049	<0.099	<30	NM
Cell #3 S-3	22-Jun-17	NM	<4.7	<10	<50	NM	NM	NM	NM	NM	NM
Cell #3 S-3	20-Sep-17	NM	<4.9	<9.8	<49	NM	NM	NM	NM	NM	NM
Cell #3 S-3	06-Dec-17	NM	<4.9	<9.3	<47	NM	NM	NM	NM	7.6	2.0
Cell #3 S-3	13-Mar-18	<19	NM	NM	NM	<0.023	<0.047	<0.047	<0.094	<30	NM
Cell #3 S-3	24-Jul-18	NM	<5.0	<9.7	<48	<0.025	<0.050	<0.050	<0.10	NM	NM
Cell #3 S-3	17-Sep-18	<19	NM	NM	NM	<0.024	<0.048	<0.048	<0.096	8.0	4.0

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	TPH mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Benzene mg/kg	Toluene mg/kg	Ethyl-Benzene mg/kg	Total Xylenes mg/kg	Chloride mg/kg	Fluoride mg/kg
Analytical Method		418.1	8015D	8015M/D	8015M/D	8021B/8260B	8021B/8260B	8021B/8260B	8021B/8260B	300.0	300.0
Approved Background		20	20			0.05	0.05	0.05	0.1	25	0.6
Cell #3 S-3	19-Dec-18	NM	<5.0	<9.7	<49	<0.025	<0.050	<0.050	<0.099	NM	NM
Cell #3 S-3	28-Mar-19	<20	NM	NM	NM	<0.023	<0.047	<0.047	<0.094	<60	NM
Cell #3 S-3	02-Apr-20	50	NM	NM	NM	<0.025	<0.049	<0.049	<0.098	<60	NM
Cell #3 S-3	16-Jun-21	NM	<4.7	<8.6	<43	<0.024	<0.047	<0.047	<0.095	<61	NM
Cell #3 S-3	26-Oct-21	NM	<5.0	190	330	<0.025	<0.050	<0.050	<0.10	NM	NM
Cell #3 S-3	09-Mar-22	NM	<4.9	<9.9	<49	<0.024	<0.049	<0.049	<0.097	NM	NM
Cell #3 S-3	15-Jun-22	<19	NM	NM	NM	<0.023	<0.046	<0.046	<0.093	NM	NM
VZ Cell #3D	29-Mar-13	NM	<5.0	<10	<50	<0.050	<0.050	<0.050	<0.10	<7.5	3.7
Cell #3 S-4	8-May-14	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.095	<7.5	<1.5
Cell #3 S-4	1-Oct-14	<20	NM	NM	NM	<0.047	<0.047	<0.047	<0.095	<30	NM
Cell #3 S-4	3-Dec-14	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.096	1.6	NM
Cell #3 S-4	27-Mar-15	<20	NM	NM	NM	<0.049	<0.049	<0.049	<0.098	<30	NM
Cell #3 S-4	24-Jun-15	NM	<4.7	<9.7	<49	<0.047	<0.047	<0.047	<0.094	NM	NM
Cell #3 S-4	24-Sep-15	NM	<4.8	<9.5	<48	<0.048	<0.048	<0.048	<0.097	14	1.6
Cell #3 S-4	09-Dec-15	NM	<4.6	<10	<50	<0.046	<0.046	<0.046	<0.092	NM	NM
Cell #3 S-4	07-Mar-16	<19	NM	NM	NM	<0.048	<0.048	<0.048	<0.096	<30	NM
Cell #3 S-4	16-Jun-16	<19	NM	NM	NM	<0.023	<0.046	<0.046	<0.092	<30	NM
Cell #3 S-4	22-Sep-16	NM	<4.6	<9.7	<49	<0.023	<0.046	<0.046	<0.092	<7.5	<1.5
Cell #3 S-4	15-Dec-16	NM	<4.6	<9.2	<46	<0.023	<0.046	<0.046	<0.093	NM	NM
Cell #3 S-4	13-Apr-17	<19	NM	NM	NM	<0.024	<0.047	<0.047	<0.094	<30	NM
Cell #3 S-4	22-Jun-17	NM	<4.8	<9.3	<46	NM	NM	NM	NM	NM	NM
Cell #3 S-4	20-Sep-17	NM	<4.9	<10	<50	NM	NM	NM	NM	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	TPH mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Benzene mg/kg	Toluene mg/kg	Ethyl-Benzene mg/kg	Total Xylenes mg/kg	Chloride mg/kg	Fluoride mg/kg
Analytical Method		418.1	8015D	8015M/D	8015M/D	8021B/8260B	8021B/8260B	8021B/8260B	8021B/8260B	300.0	300.0
Approved Background		20	20			0.05	0.05	0.05	0.1	25	0.6
Cell #3 S-4	06-Dec-17	NM	<4.7	<9.6	<48	NM	NM	NM	NM	<7.5	<1.5
Cell #3 S-4	13-Mar-18	<18	NM	NM	NM	<0.023	<0.046	<0.046	<0.093	<30	NM
Cell #3 S-4	24-Jul-18	NM	<4.8	<10	<50	<0.024	<0.048	<0.048	<0.095	NM	NM
Cell #3 S-4	17-Sep-18	<20	NM	NM	NM	<0.024	<0.047	<0.047	<0.095	8.0	<1.5
Cell #3 S-4	19-Dec-18	NM	<4.9	<10	<50	<0.024	<0.049	<0.049	<0.098	NM	NM
Cell #3 S-4	28-Mar-19	<18	NM	NM	NM	<0.025	<0.050	<0.050	<0.099	<60	NM
Cell #3 S-4	02-Apr-20	<18	NM	NM	NM	<0.024	<0.049	<0.049	<0.097	<60	NM
Cell #3 S-4	16-Jun-21	NM	<4.6	<9.9	<50	<0.023	<0.046	<0.046	<0.092	<60	NM
Cell #3 S-4	26-Oct-21	NM	<4.8	<9.2	<46	<0.024	<0.048	<0.048	<0.097	NM	NM
Cell #3 S-4	09-Mar-22	NM	<4.8	<9.0	<45	<0.024	<0.048	<0.048	<0.096	NM	NM
Cell #3 S-4	15-Jun-22	<20	NM	NM	NM	<0.025	<0.049	<0.049	<0.099	NM	NM
Cell #3 S-4	27-Sep-22	<19	NM	NM	NM	<0.023	<0.046	<0.046	<0.092	NM	NM
Cell #3 S-4	29-Nov-22	NM	<5.0	<15	<49	<0.025	<0.050	<0.050	<0.099	<7.5	2.1
VZ Cell #4	18-Sep-12	NM	<5.0	<10	NM	<0.050	<0.050	<0.050	<0.10	<15	3.7
VZ Cell #4	06-Dec-12	NM	<5.0	<9.9	<49	<0.050	<0.050	<0.050	<0.10	<7.5	NM
VZ Cell #4	29-Mar-13	NM	<5.0	<11	<53	<0.050	<0.050	<0.050	<0.10	<7.5	2.1
VZ Cell #4	01-Jul-13	NM	<5.0	<9.9	<50	<0.050	<0.050	<0.050	<0.10	<7.5	NM
VZ Cell #4	09-Oct-13	NM	<5.0	<9.9	<50	<0.050	<0.050	<0.050	<0.10	6.2	5.7
VZ Cell #4	31-Mar-14	<20	<3.4	<9.8	<49	<0.034	<0.034	<0.034	<0.068	<30	NM
Cell #4 CS-1	09-Mar-22	NM	NM	NM	NM	NM	NM	NM	NM	<7.5	3.6

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	TPH mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Benzene mg/kg	Toluene mg/kg	Ethyl-Benzene mg/kg	Total Xylenes mg/kg	Chloride mg/kg	Fluoride mg/kg
Analytical Method		418.1	8015D	8015M/D	8015M/D	8021B/8260B	8021B/8260B	8021B/8260B	8021B/8260B	300.0	300.0
Approved Background		20	20			0.05	0.05	0.05	0.1	25	0.6
Cell #4 S-1	06-May-14	<20	NM	NM	NM	<0.047	<0.047	<0.047	<0.095	<1.5	3.9
Cell #4 S-1	01-Oct-14	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.096	<30	NM
Cell #4 S-1	03-Dec-14	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.096	5.7	NM
Cell #4 S-1	27-Mar-15	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.096	<30	NM
Cell #4 S-1	24-Jun-15	NM	<4.8	<9.5	<48	<0.048	<0.048	<0.048	<0.097	NM	NM
Cell #4 S-1	24-Sep-15	NM	<4.8	<10	<50	<0.048	<0.048	<0.048	<0.097	1.6	2.5
Cell #4 S-1	09-Dec-15	NM	<4.7	<9.8	<49	<0.047	<0.047	<0.047	<0.093	NM	NM
Cell #4 S-1	07-Mar-16	<20	NM	NM	NM	<0.047	<0.047	<0.047	<0.094	<30	NM
Cell #4 S-1	16-Jun-16	<19	NM	NM	NM	<0.024	<0.047	<0.047	<0.095	<30	NM
Cell #4 S-1	22-Sep-16	NM	<4.6	<9.8	<49	<0.023	<0.046	<0.046	<0.092	<7.5	<1.5
Cell #4 S-1	15-Dec-16	NM	<4.8	<9.9	<50	<0.024	<0.048	<0.048	<0.096	NM	NM
Cell #4 S-1	13-Apr-17	<20	NM	NM	NM	<0.024	<0.049	<0.049	<0.098	<30	NM
Cell #4 S-1	22-Jun-17	NM	<4.8	<9.5	<47	NM	NM	NM	NM	NM	NM
Cell #4 S-1	20-Sep-17	NM	<4.9	<9.6	<48	NM	NM	NM	NM	NM	NM
Cell #4 S-1	06-Dec-17	NM	<4.7	<9.3	<46	NM	NM	NM	NM	<7.5	<1.5
Cell #4 S-1	13-Mar-18	<18	NM	NM	NM	<0.024	<0.047	<0.047	<0.094	32	NM
Cell #4 S-1	24-Jul-18	NM	<4.6	<9.8	<49	<0.023	<0.046	<0.046	<0.092	NM	NM
Cell #4 S-1	17-Sep-18	<19	NM	NM	NM	<0.025	<0.049	<0.049	<0.099	<7.5	1.5
Cell #4 S-1	19-Dec-18	NM	<4.7	<9.5	<47	<0.024	<0.047	<0.047	<0.094	NM	NM
Cell #4 S-1	28-Mar-19	<19	NM	NM	NM	<0.023	<0.047	<0.047	<0.093	<60	NM
Cell #4 S-1	02-Apr-20	<19	NM	NM	NM	<0.025	<0.050	<0.050	<0.099	<7.5	2.4
Cell #4 S-1	16-Jun-21	NM	<4.7	<9.8	<49	<0.023	<0.047	<0.047	<0.094	<7.5	<1.5
Cell #4 S-1	09-Mar-22	NM	<4.9	<9.8	<49	<0.024	<0.049	<0.049	<0.098	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	TPH mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Benzene mg/kg	Toluene mg/kg	Ethyl-Benzene mg/kg	Total Xylenes mg/kg	Chloride mg/kg	Fluoride mg/kg
Analytical Method		418.1	8015D	8015M/D	8015M/D	8021B/8260B	8021B/8260B	8021B/8260B	8021B/8260B	300.0	300.0
Approved Background		20	20			0.05	0.05	0.05	0.1	25	0.6
Cell #4 S-1	15-Jun-22	<20	NM	NM	NM	<0.023	<0.046	<0.046	<0.092	NM	NM
Cell #4 S-1	27-Sep-22	<20	NM	NM	NM	<0.025	<0.049	<0.049	<0.099	NM	NM
Cell #4 S-1	29-Nov-22	NM	<4.9	<14	<48	<0.024	<0.049	<0.049	<0.097	9.4	3.2
Cell #4 S-2	6-May-14	<20	NM	NM	NM	<0.046	<0.046	<0.046	<0.093	<1.5	1.8
Cell #4 S-2	1-Oct-14	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.095	<30	NM
Cell #4 S-2	3-Dec-14	<20	NM	NM	NM	<0.049	<0.049	<0.049	<0.098	13	NM
Cell #4 S-2	27-Mar-15	<20	NM	NM	NM	<0.049	<0.049	<0.049	<0.098	<30	NM
Cell #4 S-2	24-Jun-15	NM	<4.9	<10	<50	<0.049	<0.049	<0.049	<0.097	NM	NM
Cell #4 S-2	24-Sep-15	NM	<4.8	<9.5	<48	<0.048	<0.048	<0.048	<0.097	<7.5	<1.5
Cell #4 S-2	09-Dec-15	NM	<4.7	<10	<50	<0.047	<0.047	<0.047	<0.094	NM	NM
Cell #4 S-2	07-Mar-16	<19	NM	NM	NM	<0.047	<0.047	<0.047	<0.093	<30	NM
Cell #4 S-2	16-Jun-16	<20	NM	NM	NM	<0.023	<0.047	<0.047	<0.094	<30	NM
Cell #4 S-2	22-Sep-16	NM	<4.8	<9.6	<48	<0.024	<0.048	<0.048	<0.095	<7.5	1.9
Cell #4 S-2	15-Dec-16	NM	<5.0	<9.6	<48	<0.025	<0.050	<0.050	<0.10	NM	NM
Cell #4 S-2	13-Apr-17	<19	NM	NM	NM	<0.024	<0.048	<0.048	<0.097	<30	NM
Cell #4 S-2	22-Jun-17	NM	<4.8	<9.1	<46	NM	NM	NM	NM	NM	NM
Cell #4 S-2	20-Sep-17	NM	<4.7	<9.7	<48	NM	NM	NM	NM	NM	NM
Cell #4 S-2	06-Dec-17	NM	<4.6	<9.7	<48	NM	NM	NM	NM	<7.5	<1.5
Cell #4 S-2	13-Mar-18	<18	NM	NM	NM	<0.023	<0.046	<0.046	<0.092	<30	NM
Cell #4 S-2	24-Jul-18	NM	<4.9	<9.3	<47	<0.024	<0.049	<0.049	<0.098	NM	NM
Cell #4 S-2	17-Sep-18	<19	NM	NM	NM	<0.024	<0.048	<0.048	<0.097	<7.5	3.3
Cell #4 S-2	19-Dec-18	NM	<4.7	<9.5	<48	<0.023	<0.047	<0.047	<0.093	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	TPH mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Benzene mg/kg	Toluene mg/kg	Ethyl-Benzene mg/kg	Total Xylenes mg/kg	Chloride mg/kg	Fluoride mg/kg
Analytical Method		418.1	8015D	8015M/D	8015M/D	8021B/8260B	8021B/8260B	8021B/8260B	8021B/8260B	300.0	300.0
Approved Background		20	20			0.05	0.05	0.05	0.1	25	0.6
Cell #4 S-2	28-Mar-19	<19	NM	NM	NM	<0.023	<0.047	<0.047	<0.093	<60	NM
Cell #4 S-2	02-Apr-20	<19	NM	NM	NM	<0.025	<0.050	<0.050	<0.10	<60	NM
Cell #4 S-2	16-Jun-21	NM	<4.6	<8.5	<42	<0.023	<0.046	<0.046	<0.092	<60	NM
Cell #4 S-2	15-Jun-22	<19	NM	NM	NM	<0.025	<0.050	<0.050	<0.10	NM	NM
Cell #4 S-3	6-May-14	<20	NM	NM	NM	<0.049	<0.049	<0.049	<0.098	<1.5	1.8
Cell #4 S-3	1-Oct-14	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.096	<30	NM
Cell #4 S-3	3-Dec-14	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.095	2	NM
Cell #4 S-3	27-Mar-15	<20	NM	NM	NM	<0.047	<0.047	<0.047	<0.095	<30	NM
Cell #4 S-3	24-Jun-15	NM	<4.7	<10	<50	<0.047	<0.047	<0.047	<0.094	NM	NM
Cell #4 S-3	24-Sep-15	NM	<4.8	<10	<50	<0.048	<0.048	<0.048	<0.096	<7.5	<1.5
Cell #4 S-3	09-Dec-15	NM	<4.7	<9.8	<49	<0.047	<0.047	<0.047	<0.093	NM	NM
Cell #4 S-3	07-Mar-16	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.096	<30	NM
Cell #4 S-3	16-Jun-16	<19	NM	NM	NM	<0.024	<0.048	<0.048	<0.096	<30	NM
Cell #4 S-3	22-Sep-16	NM	<5.0	<9.5	<48	<0.025	<0.050	<0.050	<0.10	<7.5	3.5
Cell #4 S-3	15-Dec-16	NM	<5.0	<9.5	<48	<0.025	<0.050	<0.050	<0.099	NM	NM
Cell #4 S-3	13-Apr-17	<19	NM	NM	NM	<0.024	<0.049	<0.049	<0.097	<30	NM
Cell #4 S-3	22-Jun-17	NM	<5.0	<9.8	<49	NM	NM	NM	NM	NM	NM
Cell #4 S-3	20-Sep-17	NM	<4.7	<9.3	<47	NM	NM	NM	NM	NM	NM
Cell #4 S-3	06-Dec-17	NM	<4.6	<9.6	<48	NM	NM	NM	NM	<7.5	<1.5
Cell #4 S-3	13-Mar-18	<20	NM	NM	NM	<0.023	<0.047	<0.047	<0.093	<30	NM
Cell #4 S-3	24-Jul-18	NM	<4.8	<9.2	<46	<0.024	<0.048	<0.048	<0.097	NM	NM
Cell #4 S-3	17-Sep-18	<20	NM	NM	NM	<0.023	<0.046	<0.046	<0.092	<7.5	1.8

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	TPH mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Benzene mg/kg	Toluene mg/kg	Ethyl-Benzene mg/kg	Total Xylenes mg/kg	Chloride mg/kg	Fluoride mg/kg
Analytical Method		418.1	8015D	8015M/D	8015M/D	8021B/8260B	8021B/8260B	8021B/8260B	8021B/8260B	300.0	300.0
Approved Background		20	20			0.05	0.05	0.05	0.1	25	0.6
Cell #4 S-3	19-Dec-18	NM	<4.7	<9.7	<49	<0.024	<0.047	<0.047	<0.094	NM	NM
Cell #4 S-3	28-Mar-19	<19	NM	NM	NM	<0.024	<0.048	<0.048	<0.097	<60	NM
Cell #4 S-3	02-Apr-20	<18	NM	NM	NM	<0.025	<0.049	<0.049	<0.099	<60	NM
Cell #4 S-3	16-Jun-21	NM	<4.7	<9.0	<45	<0.024	<0.047	<0.047	<0.094	<59	NM
Cell #4 S-3	15-Jun-22	<17	NM	NM	NM	<0.023	<0.047	<0.047	<0.093	NM	NM
Cell #4 S-4	6-May-14	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.096	<7.5	<1.5
Cell #4 S-4	1-Oct-14	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.097	<30	NM
Cell #4 S-4	3-Dec-14	<20	NM	NM	NM	<0.049	<0.049	<0.049	<0.098	4.1	NM
Cell #4 S-4	27-Mar-15	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.096	<30	NM
Cell #4 S-4	24-Jun-15	NM	<4.8	<9.6	<48	<0.048	<0.048	<0.048	<0.096	NM	NM
Cell #4 S-4	24-Sep-15	NM	<4.8	<9.8	<49	<0.048	<0.048	<0.048	<0.097	2.7	0.84
Cell #4 S-4	09-Dec-15	NM	<4.9	<10	<50	<0.049	<0.049	<0.049	<0.098	NM	NM
Cell #4 S-4	07-Mar-16	<20	NM	NM	NM	<0.046	<0.046	<0.046	<0.092	<30	NM
Cell #4 S-4	16-Jun-16	<19	NM	NM	NM	<0.023	<0.046	<0.046	<0.093	<30	NM
Cell #4 S-4	22-Sep-16	NM	<4.6	<9.9	<49	<0.023	<0.046	<0.046	<0.092	<7.5	<1.5
Cell #4 S-4	15-Dec-16	NM	<4.7	<9.7	<49	<0.023	<0.047	<0.047	<0.094	NM	NM
Cell #4 S-4	13-Apr-17	<19	NM	NM	NM	<0.025	<0.050	<0.050	<0.099	<30	NM
Cell #4 S-4	22-Jun-17	NM	<4.7	<9.4	<47	NM	NM	NM	NM	NM	NM
Cell #4 S-4	20-Sep-17	NM	<4.6	<9.8	<49	NM	NM	NM	NM	NM	NM
Cell #4 S-4	06-Dec-17	NM	<4.9	<9.3	<46	NM	NM	NM	NM	NM	NM
Cell #4 S-4	13-Mar-18	<20	NM	NM	NM	<0.025	<0.049	<0.049	<0.098	<30	NM
Cell #4 S-4	24-Jul-18	NM	<4.8	<9.6	<48	<0.024	<0.048	<0.048	<0.096	NM	NM

TABLE 4
VADOSE ZONE SOIL ANALYTICAL RESULTS
BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	TPH mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Benzene mg/kg	Toluene mg/kg	Ethyl-Benzene mg/kg	Total Xylenes mg/kg	Chloride mg/kg	Fluoride mg/kg
Analytical Method		418.1	8015D	8015M/D	8015M/D	8021B/8260B	8021B/8260B	8021B/8260B	8021B/8260B	300.0	300.0
Approved Background		20	20			0.05	0.05	0.05	0.1	25	0.6
Cell #4 S-4	17-Sep-18	<19	NM	NM	NM	<0.024	<0.049	<0.049	<0.098	12	3.7
Cell #4 S-4	19-Dec-18	NM	<4.7	<9.9	<49	<0.023	<0.047	<0.047	<0.093	NM	NM
Cell #4 S-4	28-Mar-19	<20	NM	NM	NM	<0.023	<0.046	<0.046	<0.092	<60	NM
Cell #4 S-4	02-Apr-20	<18	NM	NM	NM	<0.025	<0.049	<0.049	<0.099	<60	NM
Cell #4 S-4	16-Jun-21	NM	<4.8	<10	<50	<0.024	<0.048	<0.048	<0.096	<60	NM
Cell #4 S-4	15-Jun-22	<17	NM	NM	NM	<0.025	<0.050	<0.050	<0.099	NM	NM

Notes:

<	Analyte not detected above listed method limit
NA	Not Applicable
NM	Not Measured

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Nitrate mg/kg	Sulfate mg/kg	Mercury mg/kg	Arsenic mg/kg	Barium mg/kg	Cadmium mg/kg	Calcium mg/kg	Chromium mg/kg	Copper mg/kg	Iron mg/kg	Lead mg/kg
Analytical Method		300.0	300.0	7471	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
Approved Background		0.3	1.5	0.03	2.5	42	0.1	NA	4.4	3.4	6500	2.1
VZ Cell #1	18-Sep-12	14	15	<0.033	<12	150	<0.50	5,800	15	NM	NM	5.2
VZ Cell #1	6-Dec-12	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VZ Cell #1	1-Jul-13	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VZ Cell #1	9-Oct-13	8.2	9.1	NM	<12	120	<0.50	5,600	17	NM	NM	5.5
VZ Cell #1	31-Mar-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 CS-1	09-Mar-22	6.9	13	<0.031	3.8	110	<0.19	4000	10	8.3	17000	3.8
VZ Cell #1A	29-Mar-13	8.0	110	NM	<12	86	<0.50	4,700	10	NM	NM	4.4
Cell #1 S-1	6-May-14	1.5	5.5	<0.032	<5.0	73	<0.20	2,200	5.5	4.1	9,100	2.9
Cell #1 S-1	1-Oct-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-1	9-Dec-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-1	27-Mar-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-1	24-Jun-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-1	24-Sep-15	2.3	4.9	<0.034	<12	56	<0.50	2,000	4.7	NM	NM	3.4
Cell #1 S-1	09-Dec-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-1	07-Mar-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-1	16-Jun-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-1	22-Sep-16	3.5	22	<0.033	<4.9	110	<0.20	4,000	13	NM	NM	4.8
Cell #1 S-1	15-Dec-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-1	13-Apr-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-1	22-Jun-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-1	20-Sep-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Nitrate mg/kg	Sulfate mg/kg	Mercury mg/kg	Arsenic mg/kg	Barium mg/kg	Cadmium mg/kg	Calcium mg/kg	Chromium mg/kg	Copper mg/kg	Iron mg/kg	Lead mg/kg
Analytical Method		300.0	300.0	7471	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
Approved Background		0.3	1.5	0.03	2.5	42	0.1	NA	4.4	3.4	6500	2.1
Cell #1 S-1	06-Dec-17	2.9	37	<0.033	<12	190	<0.50	5,700	18	NM	NM	4.2
Cell #1 S-1	13-Mar-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-1	24-Jul-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-1	17-Sep-18	5.8	9.6	<0.033	<12	130	<0.20	5,600	14	NM	NM	3.3
Cell #1 S-1	19-Dec-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-1	28-Mar-19	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-1	02-Apr-20	4.1	14	<0.033	<5.0	75	<0.20	5,600	10	NM	NM	3.0
Cell #1 S-1	16-Jun-21	11	19	<0.033	<5.0	140	<0.20	4300	13	NM	NM	3.7
Cell #1 S-1	09-Mar-22	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-1	15-Jun-22	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-1	27-Sep-22	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-1	29-Nov-22	<1.5	13	<0.033	3.7	120	<0.20	NM	14	12	20,000	9.7
VZ Cell #1B	29-Mar-13	<1.5	11	NM	<12	62	<0.50	5,600	13	NM	NM	4.4
Cell #1 S-2	6-May-14	0.45	17	<0.033	<12	130	<0.48	6,800	11	10	18,000	5.4
Cell #1 S-2	1-Oct-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-2	9-Dec-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-2	27-Mar-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-2	24-Jun-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-2	24-Sep-15	<0.30	17	<0.033	<12	140	<0.50	7,700	9.4	NM	NM	5.7
Cell #1 S-2	09-Dec-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-2	07-Mar-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-2	16-Jun-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Nitrate mg/kg	Sulfate mg/kg	Mercury mg/kg	Arsenic mg/kg	Barium mg/kg	Cadmium mg/kg	Calcium mg/kg	Chromium mg/kg	Copper mg/kg	Iron mg/kg	Lead mg/kg
Analytical Method		300.0	300.0	7471	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
Approved Background		0.3	1.5	0.03	2.5	42	0.1	NA	4.4	3.4	6500	2.1
Cell #1 S-2	22-Sep-16	4.5	33	<0.033	<5.0	120	<0.20	6,000	13	NM	NM	4.5
Cell #1 S-2	15-Dec-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-2	13-Apr-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-2	22-Jun-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-2	20-Sep-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-2	06-Dec-17	14	24	<0.033	<12	160	<0.50	5,300	12	NM	NM	3.9
Cell #1 S-2	13-Mar-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-2	24-Jul-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-2	17-Sep-18	6.4	18	<0.032	<4.8	120	<0.19	5,100	13	NM	NM	3.3
Cell #1 S-2	19-Dec-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-2	28-Mar-19	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-2	02-Apr-20	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-2	16-Jun-21	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-2	15-Jun-22	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VZ Cell #1C	29-Mar-13	3.3	9.5	NM	<25	150	<1.0	17,000	20	NM	NM	8.0
Cell #1 S-3	6-May-14	0.35	15	<0.034	<12	150	<0.50	5,900	14	12	20,000	6.1
Cell #1 S-3	1-Oct-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-3	9-Dec-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-3	27-Mar-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-3	24-Jun-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-3	24-Sep-15	4.6	12	<0.033	<12	85	<0.50	2,300	9.7	NM	NM	3.9
Cell #1 S-3	09-Dec-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Nitrate mg/kg	Sulfate mg/kg	Mercury mg/kg	Arsenic mg/kg	Barium mg/kg	Cadmium mg/kg	Calcium mg/kg	Chromium mg/kg	Copper mg/kg	Iron mg/kg	Lead mg/kg
Analytical Method		300.0	300.0	7471	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
Approved Background		0.3	1.5	0.03	2.5	42	0.1	NA	4.4	3.4	6500	2.1
Cell #1 S-3	07-Mar-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-3	16-Jun-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-3	22-Sep-16	5.6	14	<0.033	2.8	74	<0.098	2,700	5.9	NM	NM	3.3
Cell #1 S-3	15-Dec-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-3	13-Apr-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-3	22-Jun-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-3	20-Sep-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-3	06-Dec-17	5.6	16	<0.031	<12	150	<0.49	6,100	9.6	NM	NM	3.8
Cell #1 S-3	13-Mar-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-3	24-Jul-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-3	17-Sep-18	10	13	<0.033	<12	120	<0.20	4,400	12	NM	NM	3.9
Cell #1 S-3	19-Dec-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-3	28-Mar-19	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-3	02-Apr-20	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-3	16-Jun-21	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-3	15-Jun-22	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VZ Cell #1D	29-Mar-13	<1.5	<7.5	NM	<12	56	<0.50	2,300	8.6	NM	NM	4.1
Cell #1 S-4	6-May-14	3.0	21	<0.032	<13	110	<0.51	7,900	15	14	19,000	5.1
Cell #1 S-4	1-Oct-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-4	9-Dec-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-4	27-Mar-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-4	24-Jun-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Nitrate mg/kg	Sulfate mg/kg	Mercury mg/kg	Arsenic mg/kg	Barium mg/kg	Cadmium mg/kg	Calcium mg/kg	Chromium mg/kg	Copper mg/kg	Iron mg/kg	Lead mg/kg
Analytical Method		300.0	300.0	7471	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
Approved Background		0.3	1.5	0.03	2.5	42	0.1	NA	4.4	3.4	6500	2.1
Cell #1 S-4	24-Sep-15	5.3	31	<0.032	<12	87	<0.50	6,900	10	NM	NM	4.7
Cell #1 S-4	09-Dec-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-4	07-Mar-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-4	16-Jun-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-4	22-Sep-16	1.9	3.3	<0.033	3.1	49	<0.10	5,400	4.0	NM	NM	2.6
Cell #1 S-4	15-Dec-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-4	13-Apr-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-4	22-Jun-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-4	20-Sep-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-4	06-Dec-17	20	8.5	<0.032	5.8	81	<0.098	2,000	5.4	NM	NM	2.6
Cell #1 S-4	13-Mar-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-4	24-Jul-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-4	17-Sep-18	24	28	<0.032	<4.9	78	<0.097	2,500	6.9	NM	NM	2.2
Cell #1 S-4	19-Dec-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-4	28-Mar-19	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-4	02-Apr-20	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-4	16-Jun-21	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-4	15-Jun-22	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VZ Cell #2	18-Sep-12	<3.0	<15	<0.033	<12	90	<0.50	7,000	5.2	NM	NM	2.8
VZ Cell #2	6-Dec-12	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VZ Cell #2	29-Mar-13	3.3	28	0.071	<13	160	<0.50	7,400	10	NM	NM	5.9
VZ Cell #2	1-Jul-13	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Nitrate mg/kg	Sulfate mg/kg	Mercury mg/kg	Arsenic mg/kg	Barium mg/kg	Cadmium mg/kg	Calcium mg/kg	Chromium mg/kg	Copper mg/kg	Iron mg/kg	Lead mg/kg
Analytical Method		300.0	300.0	7471	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
Approved Background		0.3	1.5	0.03	2.5	42	0.1	NA	4.4	3.4	6500	2.1
VZ Cell #2	9-Oct-13	3.8	110	NM	<12	170	<0.50	7,400	10	NM	NM	5.7
VZ Cell #2	31-Mar-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 CS-1	09-Mar-22	4.5	16	<0.033	5.1	120	<0.20	4,600	6.6	5.0	15,000	3.9
Cell #2 S-1	08-May-14	5.2	120	<0.034	<5.1	87	<0.20	2,300	5.2	4.3	11,000	3.0
Cell #2 S-1	01-Oct-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-1	09-Dec-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-1	27-Mar-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-1	24-Jun-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-1	24-Sep-15	1.2	74	<0.032	<12	120	<0.49	6,100	5.9	NM	NM	4.6
Cell #2 S-1	09-Dec-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-1	07-Mar-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-1	16-Jun-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-1	22-Sep-16	1.1	16	<0.032	2.6	58	<0.099	1,700	4.4	NM	NM	2.6
Cell #2 S-1	15-Dec-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-1	13-Apr-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-1	22-Jun-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-1	20-Sep-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-1	06-Dec-17	2.6	44	<0.032	<12	98	<0.48	2.9	6.4	NM	NM	3.7
Cell #2 S-1	13-Mar-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-1	24-Jul-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-1	17-Sep-18	2.7	70	<0.032	3.2	82	<0.099	1,800	4.4	NM	NM	2.3

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Nitrate mg/kg	Sulfate mg/kg	Mercury mg/kg	Arsenic mg/kg	Barium mg/kg	Cadmium mg/kg	Calcium mg/kg	Chromium mg/kg	Copper mg/kg	Iron mg/kg	Lead mg/kg
Analytical Method		300.0	300.0	7471	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
Approved Background		0.3	1.5	0.03	2.5	42	0.1	NA	4.4	3.4	6500	2.1
Cell #2 S-1	19-Dec-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-1	28-Mar-19	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-1	02-Apr-20	5.8	22	<0.033	6.5	110	<0.20	4,000	7.9	NM	NM	3.1
Cell #2 S-1	16-Jun-21	<1.5	120	<0.035	<4.9	160	<0.20	4,600	8.1	NM	NM	4.4
Cell #2 S-1	09-Mar-22	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-1	15-Jun-22	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-2	8-May-14	1.3	66	<0.032	<4.9	100	<0.20	5,400	5.9	4.9	12,000	3.2
Cell #2 S-2	1-Oct-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-2	9-Dec-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-2	27-Mar-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-2	24-Jun-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-2	24-Sep-15	<0.30	160	<0.032	<13	120	<0.50	6,200	5.9	NM	NM	4.0
Cell #2 S-2	09-Dec-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-2	07-Mar-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-2	16-Jun-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-2	22-Sep-16	5.5	230	<0.032	2.7	76	<0.098	1,600	4.7	NM	NM	2.7
Cell #2 S-2	15-Dec-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-2	13-Apr-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-2	22-Jun-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-2	20-Sep-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-2	06-Dec-17	1.7	120	<0.032	2.7	100	<0.097	1,700	4.7	NM	NM	2.6
Cell #2 S-2	13-Mar-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Nitrate mg/kg	Sulfate mg/kg	Mercury mg/kg	Arsenic mg/kg	Barium mg/kg	Cadmium mg/kg	Calcium mg/kg	Chromium mg/kg	Copper mg/kg	Iron mg/kg	Lead mg/kg
Analytical Method		300.0	300.0	7471	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
Approved Background		0.3	1.5	0.03	2.5	42	0.1	NA	4.4	3.4	6500	2.1
Cell #2 S-2	24-Jul-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-2	17-Sep-18	8.2	90	<0.033	<5.0	95	<0.10	1,800	5.0	NM	NM	2.9
Cell #2 S-2	19-Dec-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-2	28-Mar-19	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-2	02-Apr-20	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-2	16-Jun-21	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-2	15-Jun-22	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-2	27-Sep-22	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-2	29-Nov-22	16	95	<0.033	4.5	160	<0.20	NM	8.6	8.7	16,000	8.3
Cell #2 S-3	8-May-14	<1.5	160	<0.034	<5.1	59	<0.20	3,200	5.7	5.7	9,800	3.4
Cell #2 S-3	1-Oct-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-3	9-Dec-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-3	27-Mar-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-3	24-Jun-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-3	24-Sep-15	6.1	130	<0.033	<12	60	<0.49	5,200	5.6	NM	NM	2.9
Cell #2 S-3	09-Dec-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-3	07-Mar-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-3	16-Jun-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-3	22-Sep-16	5.1	130	<0.032	2.6	86	<0.099	2,500	4.7	NM	NM	2.6
Cell #2 S-3	15-Dec-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-3	13-Apr-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-3	22-Jun-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Nitrate mg/kg	Sulfate mg/kg	Mercury mg/kg	Arsenic mg/kg	Barium mg/kg	Cadmium mg/kg	Calcium mg/kg	Chromium mg/kg	Copper mg/kg	Iron mg/kg	Lead mg/kg
Analytical Method		300.0	300.0	7471	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
Approved Background		0.3	1.5	0.03	2.5	42	0.1	NA	4.4	3.4	6500	2.1
Cell #2 S-3	20-Sep-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-3	06-Dec-17	<0.30	34	<0.033	<12	130	<0.50	2,900	9.4	NM	NM	3.1
Cell #2 S-3	13-Mar-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-3	24-Jul-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-3	17-Sep-18	9.1	8.7	<0.033	<2.5	71	<0.10	1,300	4.4	NM	NM	1.9
Cell #2 S-3	19-Dec-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-3	28-Mar-19	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-3	02-Apr-20	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-3	16-Jun-21	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-3	15-Jun-22	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-4	8-May-14	18	9.9	<0.034	<4.9	95	<0.20	2,400	7.6	5.4	15,000	3.5
Cell #2 S-4	1-Oct-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-4	9-Dec-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-4	27-Mar-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-4	24-Jun-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-4	24-Sep-15	4.0	62	<0.033	<12	120	<0.50	2,900	8.2	NM	NM	4.8
Cell #2 S-4	09-Dec-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-4	07-Mar-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-4	16-Jun-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-4	22-Sep-16	21	17	<0.033	2.6	69	<0.099	1,600	6.0	NM	NM	2.7
Cell #2 S-4	15-Dec-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-4	13-Apr-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Nitrate mg/kg	Sulfate mg/kg	Mercury mg/kg	Arsenic mg/kg	Barium mg/kg	Cadmium mg/kg	Calcium mg/kg	Chromium mg/kg	Copper mg/kg	Iron mg/kg	Lead mg/kg
Analytical Method		300.0	300.0	7471	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
Approved Background		0.3	1.5	0.03	2.5	42	0.1	NA	4.4	3.4	6500	2.1
Cell #2 S-4	22-Jun-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-4	20-Sep-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-4	06-Dec-17	<0.30	76	<0.031	<2.5	100	<0.098	2,700	4.4	NM	NM	2.7
Cell #2 S-4	13-Mar-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-4	24-Jul-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-4	17-Sep-18	<0.30	51	<0.031	2.8	86	<0.099	4,200	4.0	NM	NM	2.7
Cell #2 S-4	19-Dec-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-4	28-Mar-19	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-4	02-Apr-20	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-4	16-Jun-21	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-4	15-Jun-22	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VZ Cell #3	18-Sep-12	7.2	<15	<0.033	<12	99	<0.50	4,900	11	NM	NM	3.9
VZ Cell #3	06-Dec-12	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VZ Cell #3	01-Jul-13	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VZ Cell #3	09-Oct-13	3.2	16	NM	<12	110	<0.50	5,300	13	NM	NM	5.5
VZ Cell #3	31-Mar-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 CS-1	09-Mar-22	15	36	<0.033	4.2	110	<0.19	5,400	12	9.8	23,000	11
VZ Cell #3A	29-Mar-13	<1.5	30	<0.033	<12	190	<0.50	7,700	20	NM	NM	6.9
Cell #3 S-1	08-May-14	0.59	65	<0.035	<4.9	76	<0.20	1,800	5.4	4.1	11,000	3.4
Cell #3 S-1	01-Oct-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Nitrate mg/kg	Sulfate mg/kg	Mercury mg/kg	Arsenic mg/kg	Barium mg/kg	Cadmium mg/kg	Calcium mg/kg	Chromium mg/kg	Copper mg/kg	Iron mg/kg	Lead mg/kg
Analytical Method		300.0	300.0	7471	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
Approved Background		0.3	1.5	0.03	2.5	42	0.1	NA	4.4	3.4	6500	2.1
Cell #3 S-1	03-Dec-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-1	27-Mar-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-1	24-Jun-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-1	24-Sep-15	8.1	120	<0.033	<12	110	<0.50	6,800	13	NM	NM	5.7
Cell #3 S-1	09-Dec-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-1	07-Mar-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-1	16-Jun-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-1	22-Sep-16	3.3	18	<0.033	4.7	73	<0.098	1,100	4.0	NM	NM	2.5
Cell #3 S-1	15-Dec-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-1	13-Apr-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-1	22-Jun-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-1	20-Sep-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-1	06-Dec-17	1.5	10	<0.033	3.2	90	<0.096	1,100	3.3	NM	NM	2.0
Cell #3 S-1	13-Mar-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-1	24-Jul-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-1	17-Sep-18	4.6	8.5	<0.033	<2.4	55	<0.097	920	3.4	NM	NM	1.8
Cell #3 S-1	19-Dec-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-1	28-Mar-19	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-1	02-Apr-20	2.4	12	<0.033	<5.0	74	<0.20	1,100	3.8	NM	NM	2.4
Cell #3 S-1	16-Jun-21	<1.5	47	<0.034	4.5	92	<0.098	1,600	4.4	NM	NM	2.9
Cell #3 S-1	26-Oct-21	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-1	15-Jun-22	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Nitrate mg/kg	Sulfate mg/kg	Mercury mg/kg	Arsenic mg/kg	Barium mg/kg	Cadmium mg/kg	Calcium mg/kg	Chromium mg/kg	Copper mg/kg	Iron mg/kg	Lead mg/kg
Analytical Method		300.0	300.0	7471	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
Approved Background		0.3	1.5	0.03	2.5	42	0.1	NA	4.4	3.4	6500	2.1
VZ Cell #3B	29-Mar-13	1.6	39	<0.033	<25	160	<1.0	8,100	20	NM	NM	8.0
Cell #3 S-2	8-May-14	10	32	<0.032	<5.0	65	<0.20	2,100	8.9	7.2	12,000	3.3
Cell #3 S-2	1-Oct-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-2	3-Dec-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-2	27-Mar-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-2	24-Jun-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-2	24-Sep-15	2.8	83	<0.033	<12	80	<0.49	1,900	8.0	NM	NM	3.9
Cell #3 S-2	09-Dec-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-2	07-Mar-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-2	16-Jun-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-2	22-Sep-16	<1.5	69	<0.032	<2.5	48	<0.099	1,500	7.2	NM	NM	2.9
Cell #3 S-2	15-Dec-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-2	13-Apr-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-2	22-Jun-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-2	20-Sep-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-2	06-Dec-17	<1.5	14	<0.031	<12	90	<0.48	2,400	8.7	NM	NM	3.6
Cell #3 S-2	13-Mar-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-2	24-Jul-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-2	17-Sep-18	1.9	64	<0.031	<5.0	67	<0.099	2,000	9.8	NM	NM	2.6
Cell #3 S-2	19-Dec-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-2	28-Mar-19	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-2	02-Apr-20	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-2	16-Jun-21	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Nitrate mg/kg	Sulfate mg/kg	Mercury mg/kg	Arsenic mg/kg	Barium mg/kg	Cadmium mg/kg	Calcium mg/kg	Chromium mg/kg	Copper mg/kg	Iron mg/kg	Lead mg/kg
Analytical Method		300.0	300.0	7471	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
Approved Background		0.3	1.5	0.03	2.5	42	0.1	NA	4.4	3.4	6500	2.1
Cell #3 S-2	26-Oct-21	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-2	09-Mar-22	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-2	15-Jun-22	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VZ Cell #3C	29-Mar-13	6.5	29	<0.033	<25	140	<1.0	9,400	16	NM	NM	7.9
Cell #3 S-3	8-May-14	9.3	130	<0.033	<12	160	<0.49	5,200	18	13	23,000	6.2
Cell #3 S-3	1-Oct-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-3	3-Dec-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-3	27-Mar-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-3	24-Jun-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-3	24-Sep-15	7.0	200	<0.033	<12	150	<0.49	4,000	15	NM	NM	6.6
Cell #3 S-3	09-Dec-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-3	07-Mar-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-3	16-Jun-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-3	22-Sep-16	5.2	140	<0.033	<4.9	120	<0.20	4,400	14	NM	NM	5.2
Cell #3 S-3	15-Dec-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-3	13-Apr-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-3	22-Jun-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-3	20-Sep-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-3	06-Dec-17	12	29	<0.032	<12	150	<0.49	4,300	16	NM	NM	4.8
Cell #3 S-3	13-Mar-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-3	24-Jul-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-3	17-Sep-18	2.6	190	<0.033	<12	100	<0.19	6,200	17	NM	NM	4.6

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Nitrate mg/kg	Sulfate mg/kg	Mercury mg/kg	Arsenic mg/kg	Barium mg/kg	Cadmium mg/kg	Calcium mg/kg	Chromium mg/kg	Copper mg/kg	Iron mg/kg	Lead mg/kg
Analytical Method		300.0	300.0	7471	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
Approved Background		0.3	1.5	0.03	2.5	42	0.1	NA	4.4	3.4	6500	2.1
Cell #3 S-3	19-Dec-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-3	28-Mar-19	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-3	02-Apr-20	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-3	16-Jun-21	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-3	26-Oct-21	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-3	09-Mar-22	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-3	15-Jun-22	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VZ Cell #3D	29-Mar-13	2.6	43	<0.033	<12	150	<0.50	12,000	17	NM	NM	6.8
Cell #3 S-4	8-May-14	<1.5	34	<0.034	<12	130	<0.48	4,000	17	14	22,000	6.0
Cell #3 S-4	1-Oct-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	3-Dec-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	27-Mar-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	24-Jun-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	24-Sep-15	10	48	<0.033	<12	110	<0.50	4,800	11	NM	NM	5.9
Cell #3 S-4	09-Dec-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	07-Mar-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	16-Jun-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	22-Sep-16	2.2	130	<0.033	<2.5	71	<0.10	1,800	5.8	NM	NM	2.8
Cell #3 S-4	15-Dec-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	13-Apr-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	22-Jun-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	20-Sep-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Nitrate mg/kg	Sulfate mg/kg	Mercury mg/kg	Arsenic mg/kg	Barium mg/kg	Cadmium mg/kg	Calcium mg/kg	Chromium mg/kg	Copper mg/kg	Iron mg/kg	Lead mg/kg
Analytical Method		300.0	300.0	7471	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
Approved Background		0.3	1.5	0.03	2.5	42	0.1	NA	4.4	3.4	6500	2.1
Cell #3 S-4	06-Dec-17	1.7	190	<0.032	<12	120	<0.50	2,900	9.0	NM	NM	4.6
Cell #3 S-4	13-Mar-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	24-Jul-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	17-Sep-18	8.8	160	<0.032	<2.4	73	<0.097	2,000	7.1	NM	NM	2.7
Cell #3 S-4	19-Dec-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	28-Mar-19	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	02-Apr-20	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	16-Jun-21	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	26-Oct-21	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	09-Mar-22	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	15-Jun-22	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	27-Sep-22	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	29-Nov-22	1.7	9.3	<0.033	4.7	110	<0.20	NM	8.4	7.1	16,000	8.6
VZ Cell #4	18-Sep-12	<3.0	<15	<0.033	<12	130	<0.50	9,700	23	NM	NM	7.3
VZ Cell #4	06-Dec-12	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VZ Cell #4	29-Mar-13	<1.5	<7.5	<0.033	<13	130	<0.50	4,000	20	NM	NM	6.1
VZ Cell #4	01-Jul-13	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VZ Cell #4	09-Oct-13	<0.30	29	NM	<25	120	<1.0	5,800	23	NM	NM	8.7
VZ Cell #4	31-Mar-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 CS-1	09-Mar-22	3.6	11	<0.033	2.7	96	<0.20	3,300	9.5	8.1	16,000	24

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Nitrate mg/kg	Sulfate mg/kg	Mercury mg/kg	Arsenic mg/kg	Barium mg/kg	Cadmium mg/kg	Calcium mg/kg	Chromium mg/kg	Copper mg/kg	Iron mg/kg	Lead mg/kg
Analytical Method		300.0	300.0	7471	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
Approved Background		0.3	1.5	0.03	2.5	42	0.1	NA	4.4	3.4	6500	2.1
Cell #4 S-1	06-May-14	0.38	4.6	<0.033	<12	120	<0.49	9,900	18	13	22,000	7.1
Cell #4 S-1	01-Oct-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-1	03-Dec-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-1	27-Mar-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-1	24-Jun-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-1	24-Sep-15	2.0	1.8	<0.032	<12	100	<0.49	4,600	15	NM	NM	6.8
Cell #4 S-1	09-Dec-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-1	07-Mar-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-1	16-Jun-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-1	22-Sep-16	6.7	<7.5	<0.033	<2.5	60	<0.10	1,200	7.8	NM	NM	2.9
Cell #4 S-1	15-Dec-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-1	13-Apr-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-1	22-Jun-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-1	20-Sep-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-1	06-Dec-17	11	<7.5	<0.033	<12	100	<0.49	2,200	13	NM	NM	4.8
Cell #4 S-1	13-Mar-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-1	24-Jul-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-1	17-Sep-18	10	11	<0.032	<5.0	80	<0.20	3,400	11	NM	NM	4.5
Cell #4 S-1	19-Dec-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-1	28-Mar-19	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-1	02-Apr-20	18	15	<0.033	<12	110	<0.49	5,400	17	NM	NM	5.7
Cell #4 S-1	16-Jun-21	11	11	<0.033	<4.8	110	<0.19	2,700	12	NM	NM	5.2
Cell #4 S-1	09-Mar-22	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Nitrate mg/kg	Sulfate mg/kg	Mercury mg/kg	Arsenic mg/kg	Barium mg/kg	Cadmium mg/kg	Calcium mg/kg	Chromium mg/kg	Copper mg/kg	Iron mg/kg	Lead mg/kg
Analytical Method		300.0	300.0	7471	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
Approved Background		0.3	1.5	0.03	2.5	42	0.1	NA	4.4	3.4	6500	2.1
Cell #4 S-1	15-Jun-22	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-1	27-Sep-22	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-1	29-Nov-22	<1.5	23	<0.033	4.5	130	<0.20	NM	19	16	25,000	13
Cell #4 S-2	6-May-14	<0.30	2.5	<0.033	<5.1	96	<0.20	8,500	15	11	20,000	5.4
Cell #4 S-2	1-Oct-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-2	3-Dec-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-2	27-Mar-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-2	24-Jun-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-2	24-Sep-15	6.2	<7.5	<0.032	<13	100	<0.50	2,300	15	NM	NM	5.9
Cell #4 S-2	09-Dec-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-2	07-Mar-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-2	16-Jun-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-2	22-Sep-16	5.1	<7.5	<0.033	<5.0	96	<0.20	2,600	15	NM	NM	5.8
Cell #4 S-2	15-Dec-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-2	13-Apr-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-2	22-Jun-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-2	20-Sep-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-2	06-Dec-17	7.8	<7.5	<0.031	<12	110	<0.49	2,400	15	NM	NM	6.4
Cell #4 S-2	13-Mar-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-2	24-Jul-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-2	17-Sep-18	5.9	14	<0.031	<4.8	80	<0.19	4,200	13	NM	NM	4.7
Cell #4 S-2	19-Dec-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Nitrate mg/kg	Sulfate mg/kg	Mercury mg/kg	Arsenic mg/kg	Barium mg/kg	Cadmium mg/kg	Calcium mg/kg	Chromium mg/kg	Copper mg/kg	Iron mg/kg	Lead mg/kg
Analytical Method		300.0	300.0	7471	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
Approved Background		0.3	1.5	0.03	2.5	42	0.1	NA	4.4	3.4	6500	2.1
Cell #4 S-2	28-Mar-19	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-2	02-Apr-20	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-2	16-Jun-21	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-2	15-Jun-22	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-3	6-May-14	0.64	12	<0.034	<12	110	<0.50	3,900	17	13	21,000	6.8
Cell #4 S-3	1-Oct-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-3	3-Dec-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-3	27-Mar-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-3	24-Jun-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-3	24-Sep-15	5.6	15	<0.033	<12	93	<0.50	2,000	15	NM	NM	5.9
Cell #4 S-3	09-Dec-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-3	07-Mar-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-3	16-Jun-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-3	22-Sep-16	4.1	<7.5	<0.033	<5.0	78	<0.20	2,700	12	NM	NM	5.1
Cell #4 S-3	15-Dec-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-3	13-Apr-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-3	22-Jun-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-3	20-Sep-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-3	06-Dec-17	15	<7.5	<0.031	<12	110	<0.49	2,500	17	NM	NM	5.4
Cell #4 S-3	13-Mar-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-3	24-Jul-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-3	17-Sep-18	7.4	11	<0.032	<12	95	<0.19	5,500	15	NM	NM	5.1

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Nitrate mg/kg	Sulfate mg/kg	Mercury mg/kg	Arsenic mg/kg	Barium mg/kg	Cadmium mg/kg	Calcium mg/kg	Chromium mg/kg	Copper mg/kg	Iron mg/kg	Lead mg/kg
Analytical Method		300.0	300.0	7471	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
Approved Background		0.3	1.5	0.03	2.5	42	0.1	NA	4.4	3.4	6500	2.1
Cell #4 S-3	19-Dec-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-3	28-Mar-19	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-3	02-Apr-20	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-3	16-Jun-21	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-3	15-Jun-22	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-4	6-May-14	<1.5	7.9	<0.034	<5.0	77	<0.20	1,700	10	8.0	16,000	4.0
Cell #4 S-4	1-Oct-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-4	3-Dec-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-4	27-Mar-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-4	24-Jun-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-4	24-Sep-15	1.6	4.5	<0.033	<12	73	<0.49	1,600	9.9	NM	NM	4.3
Cell #4 S-4	09-Dec-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-4	07-Mar-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-4	16-Jun-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-4	22-Sep-16	<1.5	<7.5	<0.033	<4.9	83	<0.20	2,200	12	NM	NM	5.2
Cell #4 S-4	15-Dec-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-4	13-Apr-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-4	22-Jun-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-4	20-Sep-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-4	06-Dec-17	NM	NM	<0.031	<12	110	<0.50	9,900	15	NM	NM	7.1
Cell #4 S-4	13-Mar-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-4	24-Jul-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Nitrate mg/kg	Sulfate mg/kg	Mercury mg/kg	Arsenic mg/kg	Barium mg/kg	Cadmium mg/kg	Calcium mg/kg	Chromium mg/kg	Copper mg/kg	Iron mg/kg	Lead mg/kg
Analytical Method		300.0	300.0	7471	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
Approved Background		0.3	1.5	0.03	2.5	42	0.1	NA	4.4	3.4	6500	2.1
Cell #4 S-4	17-Sep-18	3.7	24	<0.032	<5.0	170	<0.20	5,300	16	NM	NM	4.5
Cell #4 S-4	19-Dec-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-4	28-Mar-19	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-4	02-Apr-20	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-4	16-Jun-21	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-4	15-Jun-22	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

Notes: <
 NA
 NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Magnesium mg/kg	Manganese mg/kg	Potassium mg/kg	Selenium mg/kg	Silver mg/kg	Sodium mg/kg	Zinc mg/kg	Manganese mg/kg	Uranium mg/kg
Analytical Method		6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
Approved Background		NA	140	NA	2.5	0.25	NA	13	140	5.0
VZ Cell #1	18-Sep-12	3,600	NM	2,900	<12	<1.2	<120	NM	NM	NM
VZ Cell #1	6-Dec-12	NM	NM	NM	NM	NM	NM	NM	NM	NM
VZ Cell #1	1-Jul-13	NM	NM	NM	NM	NM	NM	NM	NM	NM
VZ Cell #1	9-Oct-13	3,300	NM	2,400	<12	<1.2	<120	NM	NM	NM
VZ Cell #1	31-Mar-14	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 CS-1	09-Mar-22	2400		2000	1.3	<0.96	70		300	<9.6
VZ Cell #1A	29-Mar-13	2,000	NM	1,600	<12	<1.2	<120	NM	NM	NM
Cell #1 S-1	6-May-14	1,500	260	970	<5.0	<0.50	<50	22	NM	NM
Cell #1 S-1	1-Oct-14	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-1	9-Dec-14	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-1	27-Mar-15	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-1	24-Jun-15	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-1	24-Sep-15	1,300	NM	830	<12	<1.2	<120	NM	NM	NM
Cell #1 S-1	09-Dec-15	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-1	07-Mar-16	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-1	16-Jun-16	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-1	22-Sep-16	2,600	NM	2,100	<4.9	<0.49	88	NM	NM	NM
Cell #1 S-1	15-Dec-16	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-1	13-Apr-17	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-1	22-Jun-17	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-1	20-Sep-17	NM	NM	NM	NM	NM	NM	NM	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Magnesium mg/kg	Manganese mg/kg	Potassium mg/kg	Selenium mg/kg	Silver mg/kg	Sodium mg/kg	Zinc mg/kg	Manganese mg/kg	Uranium mg/kg
Analytical Method		6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
Approved Background		NA	140	NA	2.5	0.25	NA	13	140	5.0
Cell #1 S-1	06-Dec-17	3,800	NM	3,500	<12	<1.2	190	NM	NM	NM
Cell #1 S-1	13-Mar-18	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-1	24-Jul-18	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-1	17-Sep-18	3,300	NM	2,600	<12	<1.2	460	NM	NM	NM
Cell #1 S-1	19-Dec-18	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-1	28-Mar-19	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-1	02-Apr-20	NM	NM	1,600	<5.0	<0.50	270	NM	NM	NM
Cell #1 S-1	16-Jun-21	2900	NM	2100	<5.0	<0.50	190	NM	NM	NM
Cell #1 S-1	09-Mar-22	NM		NM	NM	NM	NM		NM	NM
Cell #1 S-1	15-Jun-22	NM		NM	NM	NM	NM		NM	NM
Cell #1 S-1	27-Sep-22	NM		NM	NM	NM	NM		NM	NM
Cell #1 S-1	29-Nov-22	NM	240	NM	3.1	<0.99	NM	37	240	0.88
VZ Cell #1B	29-Mar-13	2,000	NM	1,800	<12	<1.2	<120	NM	NM	NM
Cell #1 S-2	6-May-14	3,000	430	2,200	<12	<1.2	<120	48	NM	NM
Cell #1 S-2	1-Oct-14	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-2	9-Dec-14	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-2	27-Mar-15	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-2	24-Jun-15	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-2	24-Sep-15	2,800	NM	1,700	<12	<1.2	<120	NM	NM	NM
Cell #1 S-2	09-Dec-15	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-2	07-Mar-16	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-2	16-Jun-16	NM	NM	NM	NM	NM	NM	NM	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Magnesium mg/kg	Manganese mg/kg	Potassium mg/kg	Selenium mg/kg	Silver mg/kg	Sodium mg/kg	Zinc mg/kg	Manganese mg/kg	Uranium mg/kg
Analytical Method		6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
Approved Background		NA	140	NA	2.5	0.25	NA	13	140	5.0
Cell #1 S-2	22-Sep-16	2,600	NM	1,800	<5.0	<0.50	56	NM	NM	NM
Cell #1 S-2	15-Dec-16	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-2	13-Apr-17	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-2	22-Jun-17	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-2	20-Sep-17	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-2	06-Dec-17	3,000	NM	2,400	<12	<12	250	NM	NM	NM
Cell #1 S-2	13-Mar-18	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-2	24-Jul-18	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-2	17-Sep-18	2,600	NM	2,100	<4.8	<0.48	160	NM	NM	NM
Cell #1 S-2	19-Dec-18	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-2	28-Mar-19	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-2	02-Apr-20	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-2	16-Jun-21	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-2	15-Jun-22	NM	NM	NM	NM	NM	NM		NM	NM
VZ Cell #1C	29-Mar-13	4,100	NM	3,700	<25	<2.5	<250	NM	NM	NM
Cell #1 S-3	6-May-14	3,200	420	2,300	<12	<1.2	<120	51	NM	NM
Cell #1 S-3	1-Oct-14	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-3	9-Dec-14	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-3	27-Mar-15	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-3	24-Jun-15	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-3	24-Sep-15	2,200	NM	1,500	<12	<1.2	140	NM	NM	NM
Cell #1 S-3	09-Dec-15	NM	NM	NM	NM	NM	NM	NM	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Magnesium mg/kg	Manganese mg/kg	Potassium mg/kg	Selenium mg/kg	Silver mg/kg	Sodium mg/kg	Zinc mg/kg	Manganese mg/kg	Uranium mg/kg
Analytical Method		6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
Approved Background		NA	140	NA	2.5	0.25	NA	13	140	5.0
Cell #1 S-3	07-Mar-16	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-3	16-Jun-16	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-3	22-Sep-16	1,600	NM	1,100	<2.4	<0.24	<49	NM	NM	NM
Cell #1 S-3	15-Dec-16	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-3	13-Apr-17	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-3	22-Jun-17	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-3	20-Sep-17	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-3	06-Dec-17	2,600	NM	1,600	<12	<1.2	<120	NM	NM	NM
Cell #1 S-3	13-Mar-18	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-3	24-Jul-18	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-3	17-Sep-18	3,000	NM	2,400	<12	<0.50	130	NM	NM	NM
Cell #1 S-3	19-Dec-18	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-3	28-Mar-19	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-3	02-Apr-20	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-3	16-Jun-21	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-3	15-Jun-22	NM	NM	NM	NM	NM	NM		NM	NM
VZ Cell #1D	29-Mar-13	1,300	NM	1,300	<12	<1.2	<120	NM	NM	NM
Cell #1 S-4	6-May-14	3,400	350	2,400	<13	<1.3	220	46	NM	NM
Cell #1 S-4	1-Oct-14	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-4	9-Dec-14	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-4	27-Mar-15	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-4	24-Jun-15	NM	NM	NM	NM	NM	NM	NM	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Magnesium mg/kg	Manganese mg/kg	Potassium mg/kg	Selenium mg/kg	Silver mg/kg	Sodium mg/kg	Zinc mg/kg	Manganese mg/kg	Uranium mg/kg
Analytical Method		6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
Approved Background		NA	140	NA	2.5	0.25	NA	13	140	5.0
Cell #1 S-4	24-Sep-15	2,100	NM	1,400	<12	<1.2	410	NM	NM	NM
Cell #1 S-4	09-Dec-15	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-4	07-Mar-16	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-4	16-Jun-16	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-4	22-Sep-16	1,000	NM	630	<2.5	<0.25	<25	NM	NM	NM
Cell #1 S-4	15-Dec-16	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-4	13-Apr-17	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-4	22-Jun-17	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-4	20-Sep-17	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-4	06-Dec-17	1,500	NM	1,100	<2.5	<0.25	32	NM	NM	NM
Cell #1 S-4	13-Mar-18	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-4	24-Jul-18	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-4	17-Sep-18	1,900	NM	1,400	<4.9	<0.24	87	NM	NM	NM
Cell #1 S-4	19-Dec-18	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-4	28-Mar-19	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-4	02-Apr-20	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-4	16-Jun-21	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-4	15-Jun-22	NM	NM	NM	NM	NM	NM		NM	NM
VZ Cell #2	18-Sep-12	1,200	NM	550	<12	<1.2	<120	NM	NM	NM
VZ Cell #2	6-Dec-12	NM	NM	NM	NM	NM	NM	NM	NM	NM
VZ Cell #2	29-Mar-13	2,300	NM	1000	<13	<1.2	<120	NM	NM	NM
VZ Cell #2	1-Jul-13	NM	NM	NM	NM	NM	NM	NM	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Magnesium mg/kg	Manganese mg/kg	Potassium mg/kg	Selenium mg/kg	Silver mg/kg	Sodium mg/kg	Zinc mg/kg	Manganese mg/kg	Uranium mg/kg
Analytical Method		6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
Approved Background		NA	140	NA	2.5	0.25	NA	13	140	5.0
VZ Cell #2	9-Oct-13	2,300	NM	1,100	<12	<1.2	<120	NM	NM	NM
VZ Cell #2	31-Mar-14	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 CS-1	09-Mar-22	1,900		1,300	1.1	<0.99	51		290	<9.9
Cell #2 S-1	08-May-14	1,200	250	970	<5.1	<0.51	<51	22	NM	NM
Cell #2 S-1	01-Oct-14	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-1	09-Dec-14	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-1	27-Mar-15	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-1	24-Jun-15	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-1	24-Sep-15	1,600	NM	770	<12	<1.2	140	NM	NM	NM
Cell #2 S-1	09-Dec-15	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-1	07-Mar-16	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-1	16-Jun-16	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-1	22-Sep-16	1,000	NM	570	<2.5	<0.25	<25	NM	NM	NM
Cell #2 S-1	15-Dec-16	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-1	13-Apr-17	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-1	22-Jun-17	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-1	20-Sep-17	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-1	06-Dec-17	1,600	NM	1,000	<12	<1.2	<120	NM	NM	NM
Cell #2 S-1	13-Mar-18	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-1	24-Jul-18	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-1	17-Sep-18	1,100	NM	710	<2.5	<0.25	89	NM	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Magnesium mg/kg	Manganese mg/kg	Potassium mg/kg	Selenium mg/kg	Silver mg/kg	Sodium mg/kg	Zinc mg/kg	Manganese mg/kg	Uranium mg/kg
Analytical Method		6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
Approved Background		NA	140	NA	2.5	0.25	NA	13	140	5.0
Cell #2 S-1	19-Dec-18	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-1	28-Mar-19	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-1	02-Apr-20	NM	NM	1,500	<5.0	<0.50	160	NM	NM	NM
Cell #2 S-1	16-Jun-21	2,000	NM	1,400	<4.9	<0.49	93	NM	NM	NM
Cell #2 S-1	09-Mar-22	NM		NM	NM	NM	NM		NM	NM
Cell #2 S-1	15-Jun-22	NM		NM	NM	NM	NM		NM	NM
Cell #2 S-2	8-May-14	1,500	250	780	<4.9	<0.49	<49	23	NM	NM
Cell #2 S-2	1-Oct-14	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-2	9-Dec-14	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-2	27-Mar-15	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-2	24-Jun-15	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-2	24-Sep-15	1,500	NM	910	<13	<1.3	150	NM	NM	NM
Cell #2 S-2	09-Dec-15	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-2	07-Mar-16	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-2	16-Jun-16	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-2	22-Sep-16	1,100	NM	580	<2.4	<0.24	110	NM	NM	NM
Cell #2 S-2	15-Dec-16	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-2	13-Apr-17	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-2	22-Jun-17	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-2	20-Sep-17	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-2	06-Dec-17	1,200	NM	620	<2.4	<0.24	68	NM	NM	NM
Cell #2 S-2	13-Mar-18	NM	NM	NM	NM	NM	NM	NM	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Magnesium mg/kg	Manganese mg/kg	Potassium mg/kg	Selenium mg/kg	Silver mg/kg	Sodium mg/kg	Zinc mg/kg	Manganese mg/kg	Uranium mg/kg
Analytical Method		6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
Approved Background		NA	140	NA	2.5	0.25	NA	13	140	5.0
Cell #2 S-2	24-Jul-18	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-2	17-Sep-18	1,200	NM	750	<2.5	<0.25	90	NM	NM	NM
Cell #2 S-2	19-Dec-18	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-2	28-Mar-19	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-2	02-Apr-20	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-2	16-Jun-21	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-2	15-Jun-22	NM	NM	NM	NM	NM	NM		NM	NM
Cell #2 S-2	27-Sep-22	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-2	29-Nov-22	NM	340	NM	3.1	<1.0	NM	32	340	<0.50
Cell #2 S-3	8-May-14	1,200	140	840	<5.0	<0.50	110	21	NM	NM
Cell #2 S-3	1-Oct-14	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-3	9-Dec-14	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-3	27-Mar-15	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-3	24-Jun-15	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-3	24-Sep-15	1,200	NM	820	<12	<1.2	<120	NM	NM	NM
Cell #2 S-3	09-Dec-15	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-3	07-Mar-16	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-3	16-Jun-16	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-3	22-Sep-16	1,200	NM	640	<2.5	<0.25	65	NM	NM	NM
Cell #2 S-3	15-Dec-16	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-3	13-Apr-17	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-3	22-Jun-17	NM	NM	NM	NM	NM	NM	NM	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Magnesium mg/kg	Manganese mg/kg	Potassium mg/kg	Selenium mg/kg	Silver mg/kg	Sodium mg/kg	Zinc mg/kg	Manganese mg/kg	Uranium mg/kg
Analytical Method		6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
Approved Background		NA	140	NA	2.5	0.25	NA	13	140	5.0
Cell #2 S-3	20-Sep-17	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-3	06-Dec-17	2,200	NM	1,900	<12	<1.2	<120	NM	NM	NM
Cell #2 S-3	13-Mar-18	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-3	24-Jul-18	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-3	17-Sep-18	990	NM	860	<2.5	<0.25	63	NM	NM	NM
Cell #2 S-3	19-Dec-18	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-3	28-Mar-19	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-3	02-Apr-20	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-3	16-Jun-21	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-3	15-Jun-22	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-4	8-May-14	1,700	290	1,100	<4.9	<0.49	<49	28	NM	NM
Cell #2 S-4	1-Oct-14	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-4	9-Dec-14	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-4	27-Mar-15	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-4	24-Jun-15	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-4	24-Sep-15	2,100	NM	1,600	<12	<1.2	<120	NM	NM	NM
Cell #2 S-4	09-Dec-15	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-4	07-Mar-16	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-4	16-Jun-16	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-4	22-Sep-16	1,300	NM	1,200	<2.5	<0.25	<25	NM	NM	NM
Cell #2 S-4	15-Dec-16	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-4	13-Apr-17	NM	NM	NM	NM	NM	NM	NM	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Magnesium mg/kg	Manganese mg/kg	Potassium mg/kg	Selenium mg/kg	Silver mg/kg	Sodium mg/kg	Zinc mg/kg	Manganese mg/kg	Uranium mg/kg
Analytical Method		6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
Approved Background		NA	140	NA	2.5	0.25	NA	13	140	5.0
Cell #2 S-4	22-Jun-17	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-4	20-Sep-17	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-4	06-Dec-17	1,300	NM	700	<2.5	<0.25	<120	NM	NM	NM
Cell #2 S-4	13-Mar-18	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-4	24-Jul-18	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-4	17-Sep-18	1,000	NM	620	<2.5	<0.25	120	NM	NM	NM
Cell #2 S-4	19-Dec-18	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-4	28-Mar-19	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-4	02-Apr-20	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-4	16-Jun-21	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-4	15-Jun-22	NM	NM	NM	NM	NM	NM	NM	NM	NM
VZ Cell #3	18-Sep-12	2,100	NM	1,700	<12	<1.2	<120	NM	NM	NM
VZ Cell #3	06-Dec-12	NM	NM	NM	NM	NM	NM	NM	NM	NM
VZ Cell #3	01-Jul-13	NM	NM	NM	NM	NM	NM	NM	NM	NM
VZ Cell #3	09-Oct-13	2,700	NM	2,000	<12	<1.2	<120	NM	NM	NM
VZ Cell #3	31-Mar-14	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 CS-1	09-Mar-22	2,800		2,100	1.5	<0.97	93		330	<9.7
VZ Cell #3A	29-Mar-13	3,700	NM	2,500	<12	<1.2	<120	NM	NM	NM
Cell #3 S-1	08-May-14	1,300	260	800	<4.9	<0.49	50	22	NM	NM
Cell #3 S-1	01-Oct-14	NM	NM	NM	NM	NM	NM	NM	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Magnesium mg/kg	Manganese mg/kg	Potassium mg/kg	Selenium mg/kg	Silver mg/kg	Sodium mg/kg	Zinc mg/kg	Manganese mg/kg	Uranium mg/kg
Analytical Method		6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
Approved Background		NA	140	NA	2.5	0.25	NA	13	140	5.0
Cell #3 S-1	03-Dec-14	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-1	27-Mar-15	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-1	24-Jun-15	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-1	24-Sep-15	2,900	NM	2,200	<12	<1.2	<120	NM	NM	NM
Cell #3 S-1	09-Dec-15	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-1	07-Mar-16	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-1	16-Jun-16	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-1	22-Sep-16	800	NM	560	<2.5	<0.25	47	NM	NM	NM
Cell #3 S-1	15-Dec-16	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-1	13-Apr-17	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-1	22-Jun-17	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-1	20-Sep-17	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-1	06-Dec-17	820	NM	570	<2.4	<.24	41	NM	NM	NM
Cell #3 S-1	13-Mar-18	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-1	24-Jul-18	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-1	17-Sep-18	820	NM	730	<2.4	<0.24	82	NM	NM	NM
Cell #3 S-1	19-Dec-18	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-1	28-Mar-19	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-1	02-Apr-20	NM	NM	730	<5.0	<0.50	110	NM	NM	NM
Cell #3 S-1	16-Jun-21	1,000	NM	680	<2.4	<0.24	68	NM	NM	NM
Cell #3 S-1	26-Oct-21	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-1	15-Jun-22	NM	NM	NM	NM	NM	NM	NM	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Magnesium mg/kg	Manganese mg/kg	Potassium mg/kg	Selenium mg/kg	Silver mg/kg	Sodium mg/kg	Zinc mg/kg	Manganese mg/kg	Uranium mg/kg
Analytical Method		6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
Approved Background		NA	140	NA	2.5	0.25	NA	13	140	5.0
VZ Cell #3B	29-Mar-13	5,000	NM	3,200	<25	<2.5	<250	NM	NM	NM
Cell #3 S-2	8-May-14	1,600	200	1,400	<5.0	<0.50	<50	26	NM	NM
Cell #3 S-2	1-Oct-14	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-2	3-Dec-14	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-2	27-Mar-15	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-2	24-Jun-15	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-2	24-Sep-15	1,700	NM	1,300	<12	<1.2	<120	NM	NM	NM
Cell #3 S-2	09-Dec-15	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-2	07-Mar-16	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-2	16-Jun-16	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-2	22-Sep-16	1,400	NM	1,000	<2.5	<0.25	<25	NM	NM	NM
Cell #3 S-2	15-Dec-16	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-2	13-Apr-17	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-2	22-Jun-17	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-2	20-Sep-17	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-2	06-Dec-17	1,900	NM	1,700	<12	<1.2	<120	NM	NM	NM
Cell #3 S-2	13-Mar-18	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-2	24-Jul-18	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-2	17-Sep-18	1,900	NM	1,700	<5.0	<0.25	100	NM	NM	NM
Cell #3 S-2	19-Dec-18	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-2	28-Mar-19	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-2	02-Apr-20	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-2	16-Jun-21	NM	NM	NM	NM	NM	NM	NM	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Magnesium mg/kg	Manganese mg/kg	Potassium mg/kg	Selenium mg/kg	Silver mg/kg	Sodium mg/kg	Zinc mg/kg	Manganese mg/kg	Uranium mg/kg
Analytical Method		6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
Approved Background		NA	140	NA	2.5	0.25	NA	13	140	5.0
Cell #3 S-2	26-Oct-21	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-2	09-Mar-22	NM		NM	NM	NM	NM		NM	NM
Cell #3 S-2	15-Jun-22	NM		NM	NM	NM	NM		NM	NM
VZ Cell #3C	29-Mar-13	4,000	NM	2,300	<25	<2.5	<250	NM	NM	NM
Cell #3 S-3	8-May-14	3,100	310	2,500	<12	<1.2	<120	53	NM	NM
Cell #3 S-3	1-Oct-14	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-3	3-Dec-14	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-3	27-Mar-15	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-3	24-Jun-15	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-3	24-Sep-15	3,100	NM	2,500	<12	<1.2	<120	NM	NM	NM
Cell #3 S-3	09-Dec-15	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-3	07-Mar-16	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-3	16-Jun-16	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-3	22-Sep-16	2,400	NM	1,900	<4.9	<0.49	53	NM	NM	NM
Cell #3 S-3	15-Dec-16	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-3	13-Apr-17	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-3	22-Jun-17	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-3	20-Sep-17	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-3	06-Dec-17	3,000	NM	2,300	<12	<1.2	130	NM	NM	NM
Cell #3 S-3	13-Mar-18	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-3	24-Jul-18	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-3	17-Sep-18	3,100	NM	2,500	<4.9	<0.49	160	NM	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Magnesium mg/kg	Manganese mg/kg	Potassium mg/kg	Selenium mg/kg	Silver mg/kg	Sodium mg/kg	Zinc mg/kg	Manganese mg/kg	Uranium mg/kg
Analytical Method		6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
Approved Background		NA	140	NA	2.5	0.25	NA	13	140	5.0
Cell #3 S-3	19-Dec-18	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-3	28-Mar-19	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-3	02-Apr-20	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-3	16-Jun-21	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-3	26-Oct-21	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-3	09-Mar-22	NM		NM	NM	NM	NM		NM	NM
Cell #3 S-3	15-Jun-22	NM		NM	NM	NM	NM		NM	NM
VZ Cell #3D	29-Mar-13	4,700	NM	2,700	<12	<1.2	130	NM	NM	NM
Cell #3 S-4	8-May-14	3,100	330	2,800	<12	<1.2	<120	53	NM	NM
Cell #3 S-4	1-Oct-14	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	3-Dec-14	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	27-Mar-15	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	24-Jun-15	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	24-Sep-15	2,400	NM	1,600	<12	<1.2	<120	NM	NM	NM
Cell #3 S-4	09-Dec-15	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	07-Mar-16	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	16-Jun-16	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	22-Sep-16	1,200	NM	770	<2.5	<0.25	75	NM	NM	NM
Cell #3 S-4	15-Dec-16	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	13-Apr-17	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	22-Jun-17	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	20-Sep-17	NM	NM	NM	NM	NM	NM	NM	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Magnesium mg/kg	Manganese mg/kg	Potassium mg/kg	Selenium mg/kg	Silver mg/kg	Sodium mg/kg	Zinc mg/kg	Manganese mg/kg	Uranium mg/kg
Analytical Method		6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
Approved Background		NA	140	NA	2.5	0.25	NA	13	140	5.0
Cell #3 S-4	06-Dec-17	2,000	NM	1,500	<12	<1.2	<120	NM	NM	NM
Cell #3 S-4	13-Mar-18	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	24-Jul-18	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	17-Sep-18	1,500	NM	1,200	<2.4	<0.24	110	NM	NM	NM
Cell #3 S-4	19-Dec-18	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	28-Mar-19	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	02-Apr-20	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	16-Jun-21	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	26-Oct-21	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	09-Mar-22	NM		NM	NM	NM	NM		NM	NM
Cell #3 S-4	15-Jun-22	NM		NM	NM	NM	NM		NM	NM
Cell #3 S-4	27-Sep-22	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	29-Nov-22	NM	400	NM	3.0	<1.0	NM	31	400	0.67
VZ Cell #4	18-Sep-12	2,900	NM	2,400	<12	<1.2	<120	NM	NM	NM
VZ Cell #4	06-Dec-12	NM	NM	NM	NM	NM	NM	NM	NM	NM
VZ Cell #4	29-Mar-13	2,600	NM	2,600	<13	<1.2	<120	NM	NM	NM
VZ Cell #4	01-Jul-13	NM	NM	NM	NM	NM	NM	NM	NM	NM
VZ Cell #4	09-Oct-13	3,500	NM	3,200	<25	<2.5	<250	NM	NM	NM
VZ Cell #4	31-Mar-14	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 CS-1	09-Mar-22	2,000		1,700	1.2	<1.0	53		250	<10

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Magnesium mg/kg	Manganese mg/kg	Potassium mg/kg	Selenium mg/kg	Silver mg/kg	Sodium mg/kg	Zinc mg/kg	Manganese mg/kg	Uranium mg/kg
Analytical Method		6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
Approved Background		NA	140	NA	2.5	0.25	NA	13	140	5.0
Cell #4 S-1	06-May-14	2,900	260	2,100	<12	<1.2	<120	48	NM	NM
Cell #4 S-1	01-Oct-14	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-1	03-Dec-14	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-1	27-Mar-15	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-1	24-Jun-15	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-1	24-Sep-15	2,400	NM	1,900	<12	<1.2	<120	NM	NM	NM
Cell #4 S-1	09-Dec-15	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-1	07-Mar-16	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-1	16-Jun-16	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-1	22-Sep-16	1,100	NM	1,000	<2.5	<0.25	<25	NM	NM	NM
Cell #4 S-1	15-Dec-16	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-1	13-Apr-17	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-1	22-Jun-17	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-1	20-Sep-17	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-1	06-Dec-17	1,900	NM	1,800	<12	<1.2	<120	NM	NM	NM
Cell #4 S-1	13-Mar-18	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-1	24-Jul-18	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-1	17-Sep-18	1,700	NM	1,600	<5.0	<0.50	75	NM	NM	NM
Cell #4 S-1	19-Dec-18	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-1	28-Mar-19	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-1	02-Apr-20	NM	NM	2,600	<12	<1.2	190	NM	NM	NM
Cell #4 S-1	16-Jun-21	2,100	NM	1,700	<4.8	<0.48	91	NM	NM	NM
Cell #4 S-1	09-Mar-22	NM		NM	NM	NM	NM		NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Magnesium mg/kg	Manganese mg/kg	Potassium mg/kg	Selenium mg/kg	Silver mg/kg	Sodium mg/kg	Zinc mg/kg	Manganese mg/kg	Uranium mg/kg
Analytical Method		6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
Approved Background		NA	140	NA	2.5	0.25	NA	13	140	5.0
Cell #4 S-1	15-Jun-22	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-1	27-Sep-22	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-1	29-Nov-22	NM	280	NM	4.2	<1.0	NM	45	280	1.5
Cell #4 S-2	6-May-14	2,600	220	1,900	<5.1	<0.51	<130	37	NM	NM
Cell #4 S-2	1-Oct-14	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-2	3-Dec-14	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-2	27-Mar-15	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-2	24-Jun-15	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-2	24-Sep-15	2,200	NM	2,000	<13	<1.3	<130	NM	NM	NM
Cell #4 S-2	09-Dec-15	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-2	07-Mar-16	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-2	16-Jun-16	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-2	22-Sep-16	2,000	NM	1,600	<5.0	<0.50	<50	NM	NM	NM
Cell #4 S-2	15-Dec-16	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-2	13-Apr-17	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-2	22-Jun-17	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-2	20-Sep-17	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-2	06-Dec-17	2,300	NM	2,200	<12	<1.2	<120	NM	NM	NM
Cell #4 S-2	13-Mar-18	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-2	24-Jul-18	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-2	17-Sep-18	1,800	NM	1,600	<4.8	<0.48	85	NM	NM	NM
Cell #4 S-2	19-Dec-18	NM	NM	NM	NM	NM	NM	NM	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Magnesium mg/kg	Manganese mg/kg	Potassium mg/kg	Selenium mg/kg	Silver mg/kg	Sodium mg/kg	Zinc mg/kg	Manganese mg/kg	Uranium mg/kg
Analytical Method		6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
Approved Background		NA	140	NA	2.5	0.25	NA	13	140	5.0
Cell #4 S-2	28-Mar-19	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-2	02-Apr-20	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-2	16-Jun-21	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-2	15-Jun-22	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-3	6-May-14	2,300	260	2,000	<12	<1.2	<120	45	NM	NM
Cell #4 S-3	1-Oct-14	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-3	3-Dec-14	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-3	27-Mar-15	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-3	24-Jun-15	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-3	24-Sep-15	2,000	NM	1,700	<12	<1.2	<120	NM	NM	NM
Cell #4 S-3	09-Dec-15	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-3	07-Mar-16	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-3	16-Jun-16	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-3	22-Sep-16	1,600	NM	1,400	<5.0	<0.50	<50	NM	NM	NM
Cell #4 S-3	15-Dec-16	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-3	13-Apr-17	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-3	22-Jun-17	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-3	20-Sep-17	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-3	06-Dec-17	2,300	NM	2,200	<12	<1.2	<120	NM	NM	NM
Cell #4 S-3	13-Mar-18	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-3	24-Jul-18	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-3	17-Sep-18	2,200	NM	1,800	<4.8	<0.48	130	NM	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Magnesium mg/kg	Manganese mg/kg	Potassium mg/kg	Selenium mg/kg	Silver mg/kg	Sodium mg/kg	Zinc mg/kg	Manganese mg/kg	Uranium mg/kg
Analytical Method		6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
Approved Background		NA	140	NA	2.5	0.25	NA	13	140	5.0
Cell #4 S-3	19-Dec-18	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-3	28-Mar-19	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-3	02-Apr-20	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-3	16-Jun-21	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-3	15-Jun-22	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-4	6-May-14	1,400	190	1,400	<5.0	<0.50	<50	27	NM	NM
Cell #4 S-4	1-Oct-14	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-4	3-Dec-14	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-4	27-Mar-15	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-4	24-Jun-15	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-4	24-Sep-15	1,400	NM	1,500	<12	<1.2	<120	NM	NM	NM
Cell #4 S-4	09-Dec-15	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-4	07-Mar-16	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-4	16-Jun-16	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-4	22-Sep-16	2,000	NM	1,400	<4.9	<0.49	<49	NM	NM	NM
Cell #4 S-4	15-Dec-16	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-4	13-Apr-17	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-4	22-Jun-17	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-4	20-Sep-17	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-4	06-Dec-17	2,500	NM	1,900	<12	<1.2	<120	NM	NM	NM
Cell #4 S-4	13-Mar-18	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-4	24-Jul-18	NM	NM	NM	NM	NM	NM	NM	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Magnesium mg/kg	Manganese mg/kg	Potassium mg/kg	Selenium mg/kg	Silver mg/kg	Sodium mg/kg	Zinc mg/kg	Manganese mg/kg	Uranium mg/kg
Analytical Method		6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
Approved Background		NA	140	NA	2.5	0.25	NA	13	140	5.0
Cell #4 S-4	17-Sep-18	2,300	NM	2,200	<5.0	<0.50	120	NM	NM	NM
Cell #4 S-4	19-Dec-18	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-4	28-Mar-19	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-4	02-Apr-20	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-4	16-Jun-21	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-4	15-Jun-22	NM	NM	NM	NM	NM	NM	NM	NM	NM

Notes: <
 NA
 NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Zinc mg/kg	Cyanide ug/kg	Total Phenol ug/kg	Radium-228 pCi/g	Radium-226 pCi/g	pH
Analytical Method		6010B	9012B	9066	9320	SM7500Ra B M	SM4500H+B/ EPA 9040C
Approved Background		13	2500	670	NA	NA	NA
VZ Cell #1	18-Sep-12	NM	NM	NM	NM	NM	NM
VZ Cell #1	6-Dec-12	NM	NM	NM	NM	NM	NM
VZ Cell #1	1-Jul-13	NM	NM	NM	NM	NM	NM
VZ Cell #1	9-Oct-13	NM	NM	NM	NM	NM	NM
VZ Cell #1	31-Mar-14	NM	NM	NM	NM	NM	NM
Cell #1 CS-1	09-Mar-22	34	<250	<670	0.462	0.416	8
VZ Cell #1A	29-Mar-13	NM	NM	NM	NM	NM	NM
Cell #1 S-1	6-May-14	NM	NM	NM	NM	NM	NM
Cell #1 S-1	1-Oct-14	NM	NM	NM	NM	NM	NM
Cell #1 S-1	9-Dec-14	NM	NM	NM	NM	NM	NM
Cell #1 S-1	27-Mar-15	NM	NM	NM	NM	NM	NM
Cell #1 S-1	24-Jun-15	NM	NM	NM	NM	NM	NM
Cell #1 S-1	24-Sep-15	NM	NM	NM	NM	NM	NM
Cell #1 S-1	09-Dec-15	NM	NM	NM	NM	NM	NM
Cell #1 S-1	07-Mar-16	NM	NM	NM	NM	NM	NM
Cell #1 S-1	16-Jun-16	NM	NM	NM	NM	NM	NM
Cell #1 S-1	22-Sep-16	NM	NM	NM	NM	NM	NM
Cell #1 S-1	15-Dec-16	NM	NM	NM	NM	NM	NM
Cell #1 S-1	13-Apr-17	NM	NM	NM	NM	NM	NM
Cell #1 S-1	22-Jun-17	NM	NM	NM	NM	NM	NM
Cell #1 S-1	20-Sep-17	NM	NM	NM	NM	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Zinc mg/kg	Cyanide ug/kg	Total Phenol ug/kg	Radium-228 pCi/g	Radium-226 pCi/g	pH
Analytical Method		6010B	9012B	9066	9320	SM7500Ra B M	SM4500H+B/ EPA 9040C
Approved Background		13	2500	670	NA	NA	NA
Cell #1 S-1	06-Dec-17	NM	NM	NM	NM	NM	NM
Cell #1 S-1	13-Mar-18	NM	NM	NM	NM	NM	NM
Cell #1 S-1	24-Jul-18	NM	NM	NM	NM	NM	NM
Cell #1 S-1	17-Sep-18	NM	NM	NM	NM	NM	NM
Cell #1 S-1	19-Dec-18	NM	NM	NM	NM	NM	NM
Cell #1 S-1	28-Mar-19	NM	NM	NM	NM	NM	NM
Cell #1 S-1	02-Apr-20	NM	NM	NM	NM	NM	NM
Cell #1 S-1	16-Jun-21	NM	NM	NM	NM	NM	NM
Cell #1 S-1	09-Mar-22	NM	NM	NM	NM	NM	NM
Cell #1 S-1	15-Jun-22	NM	NM	NM	NM	NM	NM
Cell #1 S-1	27-Sep-22	NM	<0.250	NM	NM	NM	7.74
Cell #1 S-1	29-Nov-22	37	NM	<0.670	NM	0.510	NM
VZ Cell #1B	29-Mar-13	NM	NM	NM	NM	NM	NM
Cell #1 S-2	6-May-14	NM	NM	NM	NM	NM	NM
Cell #1 S-2	1-Oct-14	NM	NM	NM	NM	NM	NM
Cell #1 S-2	9-Dec-14	NM	NM	NM	NM	NM	NM
Cell #1 S-2	27-Mar-15	NM	NM	NM	NM	NM	NM
Cell #1 S-2	24-Jun-15	NM	NM	NM	NM	NM	NM
Cell #1 S-2	24-Sep-15	NM	NM	NM	NM	NM	NM
Cell #1 S-2	09-Dec-15	NM	NM	NM	NM	NM	NM
Cell #1 S-2	07-Mar-16	NM	NM	NM	NM	NM	NM
Cell #1 S-2	16-Jun-16	NM	NM	NM	NM	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Zinc mg/kg	Cyanide ug/kg	Total Phenol ug/kg	Radium-228 pCi/g	Radium-226 pCi/g	pH
Analytical Method		6010B	9012B	9066	9320	SM7500Ra B M	SM4500H+B/ EPA 9040C
Approved Background		13	2500	670	NA	NA	NA
Cell #1 S-2	22-Sep-16	NM	NM	NM	NM	NM	NM
Cell #1 S-2	15-Dec-16	NM	NM	NM	NM	NM	NM
Cell #1 S-2	13-Apr-17	NM	NM	NM	NM	NM	NM
Cell #1 S-2	22-Jun-17	NM	NM	NM	NM	NM	NM
Cell #1 S-2	20-Sep-17	NM	NM	NM	NM	NM	NM
Cell #1 S-2	06-Dec-17	NM	NM	NM	NM	NM	NM
Cell #1 S-2	13-Mar-18	NM	NM	NM	NM	NM	NM
Cell #1 S-2	24-Jul-18	NM	NM	NM	NM	NM	NM
Cell #1 S-2	17-Sep-18	NM	NM	NM	NM	NM	NM
Cell #1 S-2	19-Dec-18	NM	NM	NM	NM	NM	NM
Cell #1 S-2	28-Mar-19	NM	NM	NM	NM	NM	NM
Cell #1 S-2	02-Apr-20	NM	NM	NM	NM	NM	NM
Cell #1 S-2	16-Jun-21	NM	NM	NM	NM	NM	NM
Cell #1 S-2	15-Jun-22	NM	NM	NM	NM	NM	NM
VZ Cell #1C	29-Mar-13	NM	NM	NM	NM	NM	NM
Cell #1 S-3	6-May-14	NM	NM	NM	NM	NM	NM
Cell #1 S-3	1-Oct-14	NM	NM	NM	NM	NM	NM
Cell #1 S-3	9-Dec-14	NM	NM	NM	NM	NM	NM
Cell #1 S-3	27-Mar-15	NM	NM	NM	NM	NM	NM
Cell #1 S-3	24-Jun-15	NM	NM	NM	NM	NM	NM
Cell #1 S-3	24-Sep-15	NM	NM	NM	NM	NM	NM
Cell #1 S-3	09-Dec-15	NM	NM	NM	NM	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Zinc mg/kg	Cyanide ug/kg	Total Phenol ug/kg	Radium-228 pCi/g	Radium-226 pCi/g	pH
Analytical Method		6010B	9012B	9066	9320	SM7500Ra B M	SM4500H+B/ EPA 9040C
Approved Background		13	2500	670	NA	NA	NA
Cell #1 S-3	07-Mar-16	NM	NM	NM	NM	NM	NM
Cell #1 S-3	16-Jun-16	NM	NM	NM	NM	NM	NM
Cell #1 S-3	22-Sep-16	NM	NM	NM	NM	NM	NM
Cell #1 S-3	15-Dec-16	NM	NM	NM	NM	NM	NM
Cell #1 S-3	13-Apr-17	NM	NM	NM	NM	NM	NM
Cell #1 S-3	22-Jun-17	NM	NM	NM	NM	NM	NM
Cell #1 S-3	20-Sep-17	NM	NM	NM	NM	NM	NM
Cell #1 S-3	06-Dec-17	NM	NM	NM	NM	NM	NM
Cell #1 S-3	13-Mar-18	NM	NM	NM	NM	NM	NM
Cell #1 S-3	24-Jul-18	NM	NM	NM	NM	NM	NM
Cell #1 S-3	17-Sep-18	NM	NM	NM	NM	NM	NM
Cell #1 S-3	19-Dec-18	NM	NM	NM	NM	NM	NM
Cell #1 S-3	28-Mar-19	NM	NM	NM	NM	NM	NM
Cell #1 S-3	02-Apr-20	NM	NM	NM	NM	NM	NM
Cell #1 S-3	16-Jun-21	NM	NM	NM	NM	NM	NM
Cell #1 S-3	15-Jun-22	NM	NM	NM	NM	NM	NM
VZ Cell #1D	29-Mar-13	NM	NM	NM	NM	NM	NM
Cell #1 S-4	6-May-14	NM	NM	NM	NM	NM	NM
Cell #1 S-4	1-Oct-14	NM	NM	NM	NM	NM	NM
Cell #1 S-4	9-Dec-14	NM	NM	NM	NM	NM	NM
Cell #1 S-4	27-Mar-15	NM	NM	NM	NM	NM	NM
Cell #1 S-4	24-Jun-15	NM	NM	NM	NM	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

<i>Vadose Zone Sample ID</i>	<i>Date</i>	<i>Zinc mg/kg</i>	<i>Cyanide ug/kg</i>	<i>Total Phenol ug/kg</i>	<i>Radium-228 pCi/g</i>	<i>Radium-226 pCi/g</i>	<i>pH</i>
<i>Analytical Method</i>		<i>6010B</i>	<i>9012B</i>	<i>9066</i>	<i>9320</i>	<i>SM7500Ra B M</i>	<i>SM4500H+B/ EPA 9040C</i>
<i>Approved Background</i>		<i>13</i>	<i>2500</i>	<i>670</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>
Cell #1 S-4	24-Sep-15	NM	NM	NM	NM	NM	NM
Cell #1 S-4	09-Dec-15	NM	NM	NM	NM	NM	NM
Cell #1 S-4	07-Mar-16	NM	NM	NM	NM	NM	NM
Cell #1 S-4	16-Jun-16	NM	NM	NM	NM	NM	NM
Cell #1 S-4	22-Sep-16	NM	NM	NM	NM	NM	NM
Cell #1 S-4	15-Dec-16	NM	NM	NM	NM	NM	NM
Cell #1 S-4	13-Apr-17	NM	NM	NM	NM	NM	NM
Cell #1 S-4	22-Jun-17	NM	NM	NM	NM	NM	NM
Cell #1 S-4	20-Sep-17	NM	NM	NM	NM	NM	NM
Cell #1 S-4	06-Dec-17	NM	NM	NM	NM	NM	NM
Cell #1 S-4	13-Mar-18	NM	NM	NM	NM	NM	NM
Cell #1 S-4	24-Jul-18	NM	NM	NM	NM	NM	NM
Cell #1 S-4	17-Sep-18	NM	NM	NM	NM	NM	NM
Cell #1 S-4	19-Dec-18	NM	NM	NM	NM	NM	NM
Cell #1 S-4	28-Mar-19	NM	NM	NM	NM	NM	NM
Cell #1 S-4	02-Apr-20	NM	NM	NM	NM	NM	NM
Cell #1 S-4	16-Jun-21	NM	NM	NM	NM	NM	NM
Cell #1 S-4	15-Jun-22	NM	NM	NM	NM	NM	NM
VZ Cell #2	18-Sep-12	NM	NM	NM	NM	NM	NM
VZ Cell #2	6-Dec-12	NM	NM	NM	NM	NM	NM
VZ Cell #2	29-Mar-13	NM	NM	NM	NM	NM	NM
VZ Cell #2	1-Jul-13	NM	NM	NM	NM	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Zinc mg/kg	Cyanide ug/kg	Total Phenol ug/kg	Radium-228 pCi/g	Radium-226 pCi/g	pH
Analytical Method		6010B	9012B	9066	9320	SM7500Ra B M	SM4500H+B/ EPA 9040C
Approved Background		13	2500	670	NA	NA	NA
VZ Cell #2	9-Oct-13	NM	NM	NM	NM	NM	NM
VZ Cell #2	31-Mar-14	NM	NM	NM	NM	NM	NM
Cell #2 CS-1	09-Mar-22	27	<250	<670	1.05	0.346	8.14
Cell #2 S-1	08-May-14	NM	NM	NM	NM	NM	NM
Cell #2 S-1	01-Oct-14	NM	NM	NM	NM	NM	NM
Cell #2 S-1	09-Dec-14	NM	NM	NM	NM	NM	NM
Cell #2 S-1	27-Mar-15	NM	NM	NM	NM	NM	NM
Cell #2 S-1	24-Jun-15	NM	NM	NM	NM	NM	NM
Cell #2 S-1	24-Sep-15	NM	NM	NM	NM	NM	NM
Cell #2 S-1	09-Dec-15	NM	NM	NM	NM	NM	NM
Cell #2 S-1	07-Mar-16	NM	NM	NM	NM	NM	NM
Cell #2 S-1	16-Jun-16	NM	NM	NM	NM	NM	NM
Cell #2 S-1	22-Sep-16	NM	NM	NM	NM	NM	NM
Cell #2 S-1	15-Dec-16	NM	NM	NM	NM	NM	NM
Cell #2 S-1	13-Apr-17	NM	NM	NM	NM	NM	NM
Cell #2 S-1	22-Jun-17	NM	NM	NM	NM	NM	NM
Cell #2 S-1	20-Sep-17	NM	NM	NM	NM	NM	NM
Cell #2 S-1	06-Dec-17	NM	NM	NM	NM	NM	NM
Cell #2 S-1	13-Mar-18	NM	NM	NM	NM	NM	NM
Cell #2 S-1	24-Jul-18	NM	NM	NM	NM	NM	NM
Cell #2 S-1	17-Sep-18	NM	NM	NM	NM	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

<i>Vadose Zone Sample ID</i>	<i>Date</i>	<i>Zinc mg/kg</i>	<i>Cyanide ug/kg</i>	<i>Total Phenol ug/kg</i>	<i>Radium-228 pCi/g</i>	<i>Radium-226 pCi/g</i>	<i>pH</i>
<i>Analytical Method</i>		<i>6010B</i>	<i>9012B</i>	<i>9066</i>	<i>9320</i>	<i>SM7500Ra B M</i>	<i>SM4500H+B/ EPA 9040C</i>
<i>Approved Background</i>		<i>13</i>	<i>2500</i>	<i>670</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>
Cell #2 S-1	19-Dec-18	NM	NM	NM	NM	NM	NM
Cell #2 S-1	28-Mar-19	NM	NM	NM	NM	NM	NM
Cell #2 S-1	02-Apr-20	NM	NM	NM	NM	NM	NM
Cell #2 S-1	16-Jun-21	NM	NM	NM	NM	NM	NM
Cell #2 S-1	09-Mar-22	NM	NM	NM	NM	NM	NM
Cell #2 S-1	15-Jun-22	NM	NM	NM	NM	NM	NM
Cell #2 S-2	8-May-14	NM	NM	NM	NM	NM	NM
Cell #2 S-2	1-Oct-14	NM	NM	NM	NM	NM	NM
Cell #2 S-2	9-Dec-14	NM	NM	NM	NM	NM	NM
Cell #2 S-2	27-Mar-15	NM	NM	NM	NM	NM	NM
Cell #2 S-2	24-Jun-15	NM	NM	NM	NM	NM	NM
Cell #2 S-2	24-Sep-15	NM	NM	NM	NM	NM	NM
Cell #2 S-2	09-Dec-15	NM	NM	NM	NM	NM	NM
Cell #2 S-2	07-Mar-16	NM	NM	NM	NM	NM	NM
Cell #2 S-2	16-Jun-16	NM	NM	NM	NM	NM	NM
Cell #2 S-2	22-Sep-16	NM	NM	NM	NM	NM	NM
Cell #2 S-2	15-Dec-16	NM	NM	NM	NM	NM	NM
Cell #2 S-2	13-Apr-17	NM	NM	NM	NM	NM	NM
Cell #2 S-2	22-Jun-17	NM	NM	NM	NM	NM	NM
Cell #2 S-2	20-Sep-17	NM	NM	NM	NM	NM	NM
Cell #2 S-2	06-Dec-17	NM	NM	NM	NM	NM	NM
Cell #2 S-2	13-Mar-18	NM	NM	NM	NM	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

<i>Vadose Zone Sample ID</i>	<i>Date</i>	<i>Zinc mg/kg</i>	<i>Cyanide ug/kg</i>	<i>Total Phenol ug/kg</i>	<i>Radium-228 pCi/g</i>	<i>Radium-226 pCi/g</i>	<i>pH</i>
<i>Analytical Method</i>		<i>6010B</i>	<i>9012B</i>	<i>9066</i>	<i>9320</i>	<i>SM7500Ra B M</i>	<i>SM4500H+B/ EPA 9040C</i>
<i>Approved Background</i>		<i>13</i>	<i>2500</i>	<i>670</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>
Cell #2 S-2	24-Jul-18	NM	NM	NM	NM	NM	NM
Cell #2 S-2	17-Sep-18	NM	NM	NM	NM	NM	NM
Cell #2 S-2	19-Dec-18	NM	NM	NM	NM	NM	NM
Cell #2 S-2	28-Mar-19	NM	NM	NM	NM	NM	NM
Cell #2 S-2	02-Apr-20	NM	NM	NM	NM	NM	NM
Cell #2 S-2	16-Jun-21	NM	NM	NM	NM	NM	NM
Cell #2 S-2	15-Jun-22	NM	NM	NM	NM	NM	NM
Cell #2 S-2	27-Sep-22	NM	<0.250	NM	NM	NM	7.84
Cell #2 S-2	29-Nov-22	32	NM	<0.670	NM	0.570	NM
Cell #2 S-3	8-May-14	NM	NM	NM	NM	NM	NM
Cell #2 S-3	1-Oct-14	NM	NM	NM	NM	NM	NM
Cell #2 S-3	9-Dec-14	NM	NM	NM	NM	NM	NM
Cell #2 S-3	27-Mar-15	NM	NM	NM	NM	NM	NM
Cell #2 S-3	24-Jun-15	NM	NM	NM	NM	NM	NM
Cell #2 S-3	24-Sep-15	NM	NM	NM	NM	NM	NM
Cell #2 S-3	09-Dec-15	NM	NM	NM	NM	NM	NM
Cell #2 S-3	07-Mar-16	NM	NM	NM	NM	NM	NM
Cell #2 S-3	16-Jun-16	NM	NM	NM	NM	NM	NM
Cell #2 S-3	22-Sep-16	NM	NM	NM	NM	NM	NM
Cell #2 S-3	15-Dec-16	NM	NM	NM	NM	NM	NM
Cell #2 S-3	13-Apr-17	NM	NM	NM	NM	NM	NM
Cell #2 S-3	22-Jun-17	NM	NM	NM	NM	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Zinc mg/kg	Cyanide ug/kg	Total Phenol ug/kg	Radium-228 pCi/g	Radium-226 pCi/g	pH
Analytical Method		6010B	9012B	9066	9320	SM7500Ra B M	SM4500H+B/ EPA 9040C
Approved Background		13	2500	670	NA	NA	NA
Cell #2 S-3	20-Sep-17	NM	NM	NM	NM	NM	NM
Cell #2 S-3	06-Dec-17	NM	NM	NM	NM	NM	NM
Cell #2 S-3	13-Mar-18	NM	NM	NM	NM	NM	NM
Cell #2 S-3	24-Jul-18	NM	NM	NM	NM	NM	NM
Cell #2 S-3	17-Sep-18	NM	NM	NM	NM	NM	NM
Cell #2 S-3	19-Dec-18	NM	NM	NM	NM	NM	NM
Cell #2 S-3	28-Mar-19	NM	NM	NM	NM	NM	NM
Cell #2 S-3	02-Apr-20	NM	NM	NM	NM	NM	NM
Cell #2 S-3	16-Jun-21	NM	NM	NM	NM	NM	NM
Cell #2 S-3	15-Jun-22	NM	NM	NM	NM	NM	NM
Cell #2 S-4	8-May-14	NM	NM	NM	NM	NM	NM
Cell #2 S-4	1-Oct-14	NM	NM	NM	NM	NM	NM
Cell #2 S-4	9-Dec-14	NM	NM	NM	NM	NM	NM
Cell #2 S-4	27-Mar-15	NM	NM	NM	NM	NM	NM
Cell #2 S-4	24-Jun-15	NM	NM	NM	NM	NM	NM
Cell #2 S-4	24-Sep-15	NM	NM	NM	NM	NM	NM
Cell #2 S-4	09-Dec-15	NM	NM	NM	NM	NM	NM
Cell #2 S-4	07-Mar-16	NM	NM	NM	NM	NM	NM
Cell #2 S-4	16-Jun-16	NM	NM	NM	NM	NM	NM
Cell #2 S-4	22-Sep-16	NM	NM	NM	NM	NM	NM
Cell #2 S-4	15-Dec-16	NM	NM	NM	NM	NM	NM
Cell #2 S-4	13-Apr-17	NM	NM	NM	NM	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Zinc mg/kg	Cyanide ug/kg	Total Phenol ug/kg	Radium-228 pCi/g	Radium-226 pCi/g	pH
Analytical Method		6010B	9012B	9066	9320	SM7500Ra B M	SM4500H+B/ EPA 9040C
Approved Background		13	2500	670	NA	NA	NA
Cell #2 S-4	22-Jun-17	NM	NM	NM	NM	NM	NM
Cell #2 S-4	20-Sep-17	NM	NM	NM	NM	NM	NM
Cell #2 S-4	06-Dec-17	NM	NM	NM	NM	NM	NM
Cell #2 S-4	13-Mar-18	NM	NM	NM	NM	NM	NM
Cell #2 S-4	24-Jul-18	NM	NM	NM	NM	NM	NM
Cell #2 S-4	17-Sep-18	NM	NM	NM	NM	NM	NM
Cell #2 S-4	19-Dec-18	NM	NM	NM	NM	NM	NM
Cell #2 S-4	28-Mar-19	NM	NM	NM	NM	NM	NM
Cell #2 S-4	02-Apr-20	NM	NM	NM	NM	NM	NM
Cell #2 S-4	16-Jun-21	NM	NM	NM	NM	NM	NM
Cell #2 S-4	15-Jun-22	NM	NM	NM	NM	NM	NM
VZ Cell #3	18-Sep-12	NM	NM	NM	NM	NM	NM
VZ Cell #3	06-Dec-12	NM	NM	NM	NM	NM	NM
VZ Cell #3	01-Jul-13	NM	NM	NM	NM	NM	NM
VZ Cell #3	09-Oct-13	NM	NM	NM	NM	NM	NM
VZ Cell #3	31-Mar-14	NM	NM	NM	NM	NM	NM
Cell #3 CS-1	09-Mar-22	42	<250	<670	1.05	0.504	8.08
VZ Cell #3A	29-Mar-13	NM	NM	NM	NM	NM	NM
Cell #3 S-1	08-May-14	NM	NM	NM	NM	NM	NM
Cell #3 S-1	01-Oct-14	NM	NM	NM	NM	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

<i>Vadose Zone Sample ID</i>	<i>Date</i>	<i>Zinc mg/kg</i>	<i>Cyanide ug/kg</i>	<i>Total Phenol ug/kg</i>	<i>Radium-228 pCi/g</i>	<i>Radium-226 pCi/g</i>	<i>pH</i>
<i>Analytical Method</i>		<i>6010B</i>	<i>9012B</i>	<i>9066</i>	<i>9320</i>	<i>SM7500Ra B M</i>	<i>SM4500H+B/ EPA 9040C</i>
<i>Approved Background</i>		<i>13</i>	<i>2500</i>	<i>670</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>
Cell #3 S-1	03-Dec-14	NM	NM	NM	NM	NM	NM
Cell #3 S-1	27-Mar-15	NM	NM	NM	NM	NM	NM
Cell #3 S-1	24-Jun-15	NM	NM	NM	NM	NM	NM
Cell #3 S-1	24-Sep-15	NM	NM	NM	NM	NM	NM
Cell #3 S-1	09-Dec-15	NM	NM	NM	NM	NM	NM
Cell #3 S-1	07-Mar-16	NM	NM	NM	NM	NM	NM
Cell #3 S-1	16-Jun-16	NM	NM	NM	NM	NM	NM
Cell #3 S-1	22-Sep-16	NM	NM	NM	NM	NM	NM
Cell #3 S-1	15-Dec-16	NM	NM	NM	NM	NM	NM
Cell #3 S-1	13-Apr-17	NM	NM	NM	NM	NM	NM
Cell #3 S-1	22-Jun-17	NM	NM	NM	NM	NM	NM
Cell #3 S-1	20-Sep-17	NM	NM	NM	NM	NM	NM
Cell #3 S-1	06-Dec-17	NM	NM	NM	NM	NM	NM
Cell #3 S-1	13-Mar-18	NM	NM	NM	NM	NM	NM
Cell #3 S-1	24-Jul-18	NM	NM	NM	NM	NM	NM
Cell #3 S-1	17-Sep-18	NM	NM	NM	NM	NM	NM
Cell #3 S-1	19-Dec-18	NM	NM	NM	NM	NM	NM
Cell #3 S-1	28-Mar-19	NM	NM	NM	NM	NM	NM
Cell #3 S-1	02-Apr-20	NM	NM	NM	NM	NM	NM
Cell #3 S-1	16-Jun-21	NM	NM	NM	NM	NM	NM
Cell #3 S-1	26-Oct-21	NM	NM	NM	NM	NM	NM
Cell #3 S-1	15-Jun-22	NM	NM	NM	NM	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

<i>Vadose Zone Sample ID</i>	<i>Date</i>	<i>Zinc mg/kg</i>	<i>Cyanide ug/kg</i>	<i>Total Phenol ug/kg</i>	<i>Radium-228 pCi/g</i>	<i>Radium-226 pCi/g</i>	<i>pH</i>
<i>Analytical Method</i>		<i>6010B</i>	<i>9012B</i>	<i>9066</i>	<i>9320</i>	<i>SM7500Ra B M</i>	<i>SM4500H+B/ EPA 9040C</i>
<i>Approved Background</i>		<i>13</i>	<i>2500</i>	<i>670</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>
VZ Cell #3B	29-Mar-13	NM	NM	NM	NM	NM	NM
Cell #3 S-2	8-May-14	NM	NM	NM	NM	NM	NM
Cell #3 S-2	1-Oct-14	NM	NM	NM	NM	NM	NM
Cell #3 S-2	3-Dec-14	NM	NM	NM	NM	NM	NM
Cell #3 S-2	27-Mar-15	NM	NM	NM	NM	NM	NM
Cell #3 S-2	24-Jun-15	NM	NM	NM	NM	NM	NM
Cell #3 S-2	24-Sep-15	NM	NM	NM	NM	NM	NM
Cell #3 S-2	09-Dec-15	NM	NM	NM	NM	NM	NM
Cell #3 S-2	07-Mar-16	NM	NM	NM	NM	NM	NM
Cell #3 S-2	16-Jun-16	NM	NM	NM	NM	NM	NM
Cell #3 S-2	22-Sep-16	NM	NM	NM	NM	NM	NM
Cell #3 S-2	15-Dec-16	NM	NM	NM	NM	NM	NM
Cell #3 S-2	13-Apr-17	NM	NM	NM	NM	NM	NM
Cell #3 S-2	22-Jun-17	NM	NM	NM	NM	NM	NM
Cell #3 S-2	20-Sep-17	NM	NM	NM	NM	NM	NM
Cell #3 S-2	06-Dec-17	NM	NM	NM	NM	NM	NM
Cell #3 S-2	13-Mar-18	NM	NM	NM	NM	NM	NM
Cell #3 S-2	24-Jul-18	NM	NM	NM	NM	NM	NM
Cell #3 S-2	17-Sep-18	NM	NM	NM	NM	NM	NM
Cell #3 S-2	19-Dec-18	NM	NM	NM	NM	NM	NM
Cell #3 S-2	28-Mar-19	NM	NM	NM	NM	NM	NM
Cell #3 S-2	02-Apr-20	NM	NM	NM	NM	NM	NM
Cell #3 S-2	16-Jun-21	NM	NM	NM	NM	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Zinc mg/kg	Cyanide ug/kg	Total Phenol ug/kg	Radium-228 pCi/g	Radium-226 pCi/g	pH
Analytical Method		6010B	9012B	9066	9320	SM7500Ra B M	SM4500H+B/ EPA 9040C
Approved Background		13	2500	670	NA	NA	NA
Cell #3 S-2	26-Oct-21	NM	NM	NM	NM	NM	NM
Cell #3 S-2	09-Mar-22	NM	NM	NM	NM	NM	NM
Cell #3 S-2	15-Jun-22	NM	NM	NM	NM	NM	NM
VZ Cell #3C	29-Mar-13	NM	NM	NM	NM	NM	NM
Cell #3 S-3	8-May-14	NM	NM	NM	NM	NM	NM
Cell #3 S-3	1-Oct-14	NM	NM	NM	NM	NM	NM
Cell #3 S-3	3-Dec-14	NM	NM	NM	NM	NM	NM
Cell #3 S-3	27-Mar-15	NM	NM	NM	NM	NM	NM
Cell #3 S-3	24-Jun-15	NM	NM	NM	NM	NM	NM
Cell #3 S-3	24-Sep-15	NM	NM	NM	NM	NM	NM
Cell #3 S-3	09-Dec-15	NM	NM	NM	NM	NM	NM
Cell #3 S-3	07-Mar-16	NM	NM	NM	NM	NM	NM
Cell #3 S-3	16-Jun-16	NM	NM	NM	NM	NM	NM
Cell #3 S-3	22-Sep-16	NM	NM	NM	NM	NM	NM
Cell #3 S-3	15-Dec-16	NM	NM	NM	NM	NM	NM
Cell #3 S-3	13-Apr-17	NM	NM	NM	NM	NM	NM
Cell #3 S-3	22-Jun-17	NM	NM	NM	NM	NM	NM
Cell #3 S-3	20-Sep-17	NM	NM	NM	NM	NM	NM
Cell #3 S-3	06-Dec-17	NM	NM	NM	NM	NM	NM
Cell #3 S-3	13-Mar-18	NM	NM	NM	NM	NM	NM
Cell #3 S-3	24-Jul-18	NM	NM	NM	NM	NM	NM
Cell #3 S-3	17-Sep-18	NM	NM	NM	NM	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Zinc mg/kg	Cyanide ug/kg	Total Phenol ug/kg	Radium-228 pCi/g	Radium-226 pCi/g	pH
Analytical Method		6010B	9012B	9066	9320	SM7500Ra B M	SM4500H+B/ EPA 9040C
Approved Background		13	2500	670	NA	NA	NA
Cell #3 S-3	19-Dec-18	NM	NM	NM	NM	NM	NM
Cell #3 S-3	28-Mar-19	NM	NM	NM	NM	NM	NM
Cell #3 S-3	02-Apr-20	NM	NM	NM	NM	NM	NM
Cell #3 S-3	16-Jun-21	NM	NM	NM	NM	NM	NM
Cell #3 S-3	26-Oct-21	NM	NM	NM	NM	NM	NM
Cell #3 S-3	09-Mar-22	NM	NM	NM	NM	NM	NM
Cell #3 S-3	15-Jun-22	NM	NM	NM	NM	NM	NM
VZ Cell #3D	29-Mar-13	NM	NM	NM	NM	NM	NM
Cell #3 S-4	8-May-14	NM	NM	NM	NM	NM	NM
Cell #3 S-4	1-Oct-14	NM	NM	NM	NM	NM	NM
Cell #3 S-4	3-Dec-14	NM	NM	NM	NM	NM	NM
Cell #3 S-4	27-Mar-15	NM	NM	NM	NM	NM	NM
Cell #3 S-4	24-Jun-15	NM	NM	NM	NM	NM	NM
Cell #3 S-4	24-Sep-15	NM	NM	NM	NM	NM	NM
Cell #3 S-4	09-Dec-15	NM	NM	NM	NM	NM	NM
Cell #3 S-4	07-Mar-16	NM	NM	NM	NM	NM	NM
Cell #3 S-4	16-Jun-16	NM	NM	NM	NM	NM	NM
Cell #3 S-4	22-Sep-16	NM	NM	NM	NM	NM	NM
Cell #3 S-4	15-Dec-16	NM	NM	NM	NM	NM	NM
Cell #3 S-4	13-Apr-17	NM	NM	NM	NM	NM	NM
Cell #3 S-4	22-Jun-17	NM	NM	NM	NM	NM	NM
Cell #3 S-4	20-Sep-17	NM	NM	NM	NM	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Zinc mg/kg	Cyanide ug/kg	Total Phenol ug/kg	Radium-228 pCi/g	Radium-226 pCi/g	pH
Analytical Method		6010B	9012B	9066	9320	SM7500Ra B M	SM4500H+B/ EPA 9040C
Approved Background		13	2500	670	NA	NA	NA
Cell #3 S-4	06-Dec-17	NM	NM	NM	NM	NM	NM
Cell #3 S-4	13-Mar-18	NM	NM	NM	NM	NM	NM
Cell #3 S-4	24-Jul-18	NM	NM	NM	NM	NM	NM
Cell #3 S-4	17-Sep-18	NM	NM	NM	NM	NM	NM
Cell #3 S-4	19-Dec-18	NM	NM	NM	NM	NM	NM
Cell #3 S-4	28-Mar-19	NM	NM	NM	NM	NM	NM
Cell #3 S-4	02-Apr-20	NM	NM	NM	NM	NM	NM
Cell #3 S-4	16-Jun-21	NM	NM	NM	NM	NM	NM
Cell #3 S-4	26-Oct-21	NM	NM	NM	NM	NM	NM
Cell #3 S-4	09-Mar-22	NM	NM	NM	NM	NM	NM
Cell #3 S-4	15-Jun-22	NM	NM	NM	NM	NM	NM
Cell #3 S-4	27-Sep-22	NM	<0.250	NM	NM	NM	7.98
Cell #3 S-4	29-Nov-22	31	NM	<0.670	NM	0.423	NM
VZ Cell #4	18-Sep-12	NM	NM	NM	NM	NM	NM
VZ Cell #4	06-Dec-12	NM	NM	NM	NM	NM	NM
VZ Cell #4	29-Mar-13	NM	NM	NM	NM	NM	NM
VZ Cell #4	01-Jul-13	NM	NM	NM	NM	NM	NM
VZ Cell #4	09-Oct-13	NM	NM	NM	NM	NM	NM
VZ Cell #4	31-Mar-14	NM	NM	NM	NM	NM	NM
Cell #4 CS-1	09-Mar-22	27	<250	<670	0.464	0.478	8.31

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

<i>Vadose Zone Sample ID</i>	<i>Date</i>	<i>Zinc mg/kg</i>	<i>Cyanide ug/kg</i>	<i>Total Phenol ug/kg</i>	<i>Radium-228 pCi/g</i>	<i>Radium-226 pCi/g</i>	<i>pH</i>
<i>Analytical Method</i>		<i>6010B</i>	<i>9012B</i>	<i>9066</i>	<i>9320</i>	<i>SM7500Ra B M</i>	<i>SM4500H+B/ EPA 9040C</i>
<i>Approved Background</i>		<i>13</i>	<i>2500</i>	<i>670</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>
Cell #4 S-1	06-May-14	NM	NM	NM	NM	NM	NM
Cell #4 S-1	01-Oct-14	NM	NM	NM	NM	NM	NM
Cell #4 S-1	03-Dec-14	NM	NM	NM	NM	NM	NM
Cell #4 S-1	27-Mar-15	NM	NM	NM	NM	NM	NM
Cell #4 S-1	24-Jun-15	NM	NM	NM	NM	NM	NM
Cell #4 S-1	24-Sep-15	NM	NM	NM	NM	NM	NM
Cell #4 S-1	09-Dec-15	NM	NM	NM	NM	NM	NM
Cell #4 S-1	07-Mar-16	NM	NM	NM	NM	NM	NM
Cell #4 S-1	16-Jun-16	NM	NM	NM	NM	NM	NM
Cell #4 S-1	22-Sep-16	NM	NM	NM	NM	NM	NM
Cell #4 S-1	15-Dec-16	NM	NM	NM	NM	NM	NM
Cell #4 S-1	13-Apr-17	NM	NM	NM	NM	NM	NM
Cell #4 S-1	22-Jun-17	NM	NM	NM	NM	NM	NM
Cell #4 S-1	20-Sep-17	NM	NM	NM	NM	NM	NM
Cell #4 S-1	06-Dec-17	NM	NM	NM	NM	NM	NM
Cell #4 S-1	13-Mar-18	NM	NM	NM	NM	NM	NM
Cell #4 S-1	24-Jul-18	NM	NM	NM	NM	NM	NM
Cell #4 S-1	17-Sep-18	NM	NM	NM	NM	NM	NM
Cell #4 S-1	19-Dec-18	NM	NM	NM	NM	NM	NM
Cell #4 S-1	28-Mar-19	NM	NM	NM	NM	NM	NM
Cell #4 S-1	02-Apr-20	NM	NM	NM	NM	NM	NM
Cell #4 S-1	16-Jun-21	NM	NM	NM	NM	NM	NM
Cell #4 S-1	09-Mar-22	NM	NM	NM	NM	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Zinc mg/kg	Cyanide ug/kg	Total Phenol ug/kg	Radium-228 pCi/g	Radium-226 pCi/g	pH
Analytical Method		6010B	9012B	9066	9320	SM7500Ra B M	SM4500H+B/ EPA 9040C
Approved Background		13	2500	670	NA	NA	NA
Cell #4 S-1	15-Jun-22	NM	NM	NM	NM	NM	NM
Cell #4 S-1	27-Sep-22	NM	<0.250	NM	NM	NM	7.92
Cell #4 S-1	29-Nov-22	45	NM	<0.670	NM	0.747	NM
Cell #4 S-2	6-May-14	NM	NM	NM	NM	NM	NM
Cell #4 S-2	1-Oct-14	NM	NM	NM	NM	NM	NM
Cell #4 S-2	3-Dec-14	NM	NM	NM	NM	NM	NM
Cell #4 S-2	27-Mar-15	NM	NM	NM	NM	NM	NM
Cell #4 S-2	24-Jun-15	NM	NM	NM	NM	NM	NM
Cell #4 S-2	24-Sep-15	NM	NM	NM	NM	NM	NM
Cell #4 S-2	09-Dec-15	NM	NM	NM	NM	NM	NM
Cell #4 S-2	07-Mar-16	NM	NM	NM	NM	NM	NM
Cell #4 S-2	16-Jun-16	NM	NM	NM	NM	NM	NM
Cell #4 S-2	22-Sep-16	NM	NM	NM	NM	NM	NM
Cell #4 S-2	15-Dec-16	NM	NM	NM	NM	NM	NM
Cell #4 S-2	13-Apr-17	NM	NM	NM	NM	NM	NM
Cell #4 S-2	22-Jun-17	NM	NM	NM	NM	NM	NM
Cell #4 S-2	20-Sep-17	NM	NM	NM	NM	NM	NM
Cell #4 S-2	06-Dec-17	NM	NM	NM	NM	NM	NM
Cell #4 S-2	13-Mar-18	NM	NM	NM	NM	NM	NM
Cell #4 S-2	24-Jul-18	NM	NM	NM	NM	NM	NM
Cell #4 S-2	17-Sep-18	NM	NM	NM	NM	NM	NM
Cell #4 S-2	19-Dec-18	NM	NM	NM	NM	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Zinc mg/kg	Cyanide ug/kg	Total Phenol ug/kg	Radium-228 pCi/g	Radium-226 pCi/g	pH
Analytical Method		6010B	9012B	9066	9320	SM7500Ra B M	SM4500H+B/ EPA 9040C
Approved Background		13	2500	670	NA	NA	NA
Cell #4 S-2	28-Mar-19	NM	NM	NM	NM	NM	NM
Cell #4 S-2	02-Apr-20	NM	NM	NM	NM	NM	NM
Cell #4 S-2	16-Jun-21	NM	NM	NM	NM	NM	NM
Cell #4 S-2	15-Jun-22	NM	NM	NM	NM	NM	NM
Cell #4 S-3	6-May-14	NM	NM	NM	NM	NM	NM
Cell #4 S-3	1-Oct-14	NM	NM	NM	NM	NM	NM
Cell #4 S-3	3-Dec-14	NM	NM	NM	NM	NM	NM
Cell #4 S-3	27-Mar-15	NM	NM	NM	NM	NM	NM
Cell #4 S-3	24-Jun-15	NM	NM	NM	NM	NM	NM
Cell #4 S-3	24-Sep-15	NM	NM	NM	NM	NM	NM
Cell #4 S-3	09-Dec-15	NM	NM	NM	NM	NM	NM
Cell #4 S-3	07-Mar-16	NM	NM	NM	NM	NM	NM
Cell #4 S-3	16-Jun-16	NM	NM	NM	NM	NM	NM
Cell #4 S-3	22-Sep-16	NM	NM	NM	NM	NM	NM
Cell #4 S-3	15-Dec-16	NM	NM	NM	NM	NM	NM
Cell #4 S-3	13-Apr-17	NM	NM	NM	NM	NM	NM
Cell #4 S-3	22-Jun-17	NM	NM	NM	NM	NM	NM
Cell #4 S-3	20-Sep-17	NM	NM	NM	NM	NM	NM
Cell #4 S-3	06-Dec-17	NM	NM	NM	NM	NM	NM
Cell #4 S-3	13-Mar-18	NM	NM	NM	NM	NM	NM
Cell #4 S-3	24-Jul-18	NM	NM	NM	NM	NM	NM
Cell #4 S-3	17-Sep-18	NM	NM	NM	NM	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Zinc mg/kg	Cyanide ug/kg	Total Phenol ug/kg	Radium-228 pCi/g	Radium-226 pCi/g	pH
Analytical Method		6010B	9012B	9066	9320	SM7500Ra B M	SM4500H+B/ EPA 9040C
Approved Background		13	2500	670	NA	NA	NA
Cell #4 S-3	19-Dec-18	NM	NM	NM	NM	NM	NM
Cell #4 S-3	28-Mar-19	NM	NM	NM	NM	NM	NM
Cell #4 S-3	02-Apr-20	NM	NM	NM	NM	NM	NM
Cell #4 S-3	16-Jun-21	NM	NM	NM	NM	NM	NM
Cell #4 S-3	15-Jun-22	NM	NM	NM	NM	NM	NM
Cell #4 S-4	6-May-14	NM	NM	NM	NM	NM	NM
Cell #4 S-4	1-Oct-14	NM	NM	NM	NM	NM	NM
Cell #4 S-4	3-Dec-14	NM	NM	NM	NM	NM	NM
Cell #4 S-4	27-Mar-15	NM	NM	NM	NM	NM	NM
Cell #4 S-4	24-Jun-15	NM	NM	NM	NM	NM	NM
Cell #4 S-4	24-Sep-15	NM	NM	NM	NM	NM	NM
Cell #4 S-4	09-Dec-15	NM	NM	NM	NM	NM	NM
Cell #4 S-4	07-Mar-16	NM	NM	NM	NM	NM	NM
Cell #4 S-4	16-Jun-16	NM	NM	NM	NM	NM	NM
Cell #4 S-4	22-Sep-16	NM	NM	NM	NM	NM	NM
Cell #4 S-4	15-Dec-16	NM	NM	NM	NM	NM	NM
Cell #4 S-4	13-Apr-17	NM	NM	NM	NM	NM	NM
Cell #4 S-4	22-Jun-17	NM	NM	NM	NM	NM	NM
Cell #4 S-4	20-Sep-17	NM	NM	NM	NM	NM	NM
Cell #4 S-4	06-Dec-17	NM	NM	NM	NM	NM	NM
Cell #4 S-4	13-Mar-18	NM	NM	NM	NM	NM	NM
Cell #4 S-4	24-Jul-18	NM	NM	NM	NM	NM	NM

TABLE 4
 VADOSE ZONE SOIL ANALYTICAL RESULTS
 BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Zinc mg/kg	Cyanide ug/kg	Total Phenol ug/kg	Radium-228 pCi/g	Radium-226 pCi/g	pH
Analytical Method		6010B	9012B	9066	9320	SM7500Ra B M	SM4500H+B/ EPA 9040C
Approved Background		13	2500	670	NA	NA	NA
Cell #4 S-4	17-Sep-18	NM	NM	NM	NM	NM	NM
Cell #4 S-4	19-Dec-18	NM	NM	NM	NM	NM	NM
Cell #4 S-4	28-Mar-19	NM	NM	NM	NM	NM	NM
Cell #4 S-4	02-Apr-20	NM	NM	NM	NM	NM	NM
Cell #4 S-4	16-Jun-21	NM	NM	NM	NM	NM	NM
Cell #4 S-4	15-Jun-22	NM	NM	NM	NM	NM	NM

Notes: <
 NA
 NM

Figures

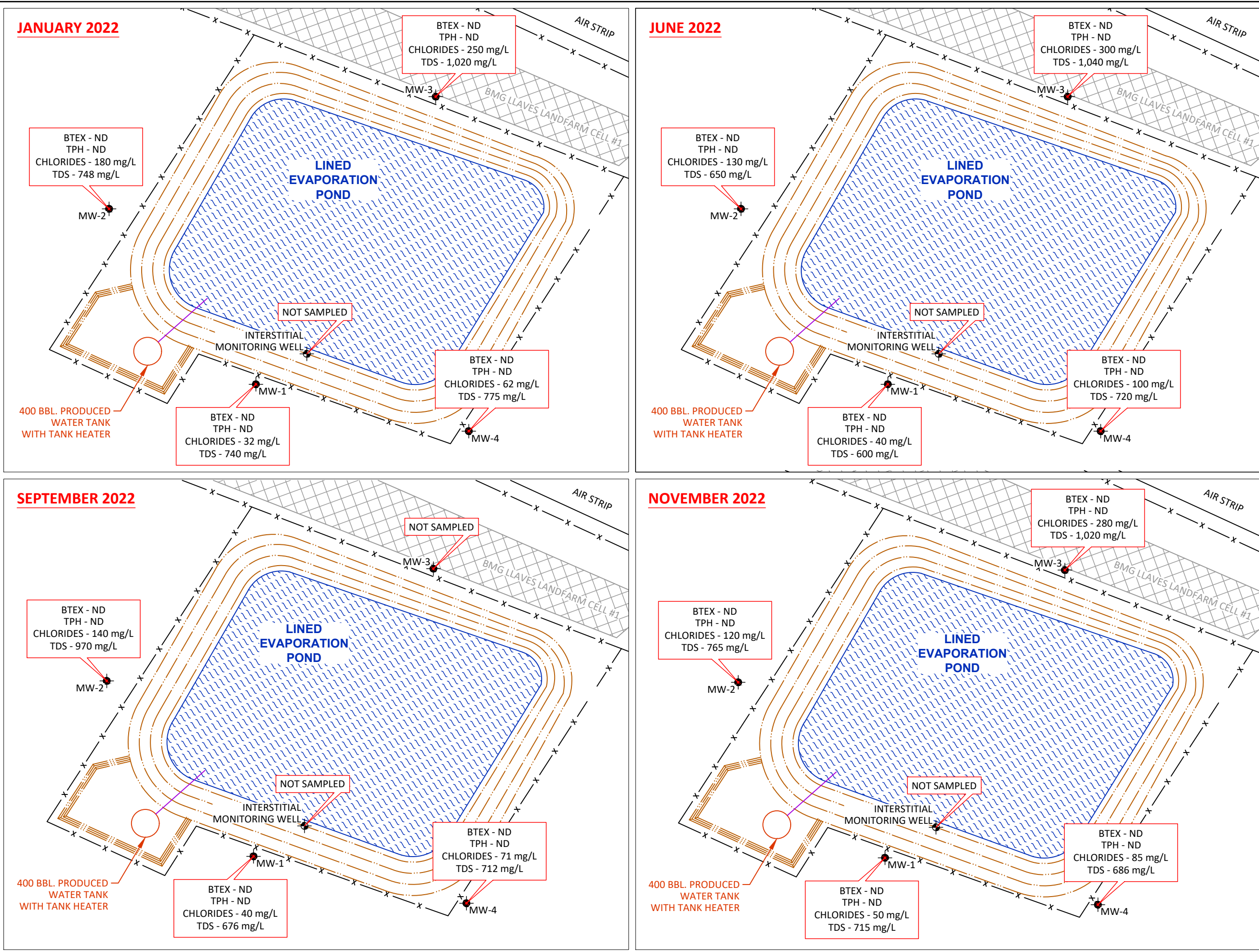


FIGURE 1

**BENSON-MONTIN-GREER
CENTRALIZED SURFACE WASTE
MANAGEMENT FACILITY EVAPORATION POND
AND MONITOR WELL LOCATIONS
2022 CONCENTRATIONS**

NW¼ NW¼, SECTION 20, T25N, R1E
LLAVES, RIO ARriba COUNTY, NEW MEXICO

**animas
environmental
services**

Farmington, NM
animasenvironmental.com

DRAWN BY: C. Lameman	DATE DRAWN: January 11, 2013
REVISIONS BY: C. Lameman	DATE REVISED: September 11, 2023
CHECKED BY: K. Pickford	DATE CHECKED: September 11, 2023
APPROVED BY: E. McNally	DATE APPROVED: September 11, 2023

LEGEND

— x — FENCE

— EARTH BERM
(SECONDARY CONTAINMENT)

• EXISTING POND LINER INTERSTITIAL
MONITOR WELL

• GROUNDWATER MONITOR WELL

B BENZENE
T TOLUENE
E ETHYLBENZENE
X TOTAL XYLENE
TPH TOTAL PETROLEUM HYDROCARBONS
TDS TOTAL DISSOLVED SOLIDS
ND NOT DETECTED
µg/L PARTS PER BILLION
mg/L PARTS PER MILLION

NOTE: SAMPLES WERE COLLECTED ON JANUARY 6, JUNE 16, SEPTEMBER 27 AND NOVEMBER 29, 2022. ALL SAMPLES ANALYZED PER EPA METHOD 8015B, 8021B, SM 2540C, AND 300.0.

SCALE

50 30 0 50

10

(1 INCH = 50 FEET)

TREATMENT ZONE MONITORING LOCATIONS							
SAMPLE ID	SAMPLE LOCATION	SAMPLE DATE	SAMPLE DEPTH (ft)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	CHLORIDE (mg/kg)
NMOCD CLOSURE ACTION LEVELS (NMAC 19.15.36.15)				2,500 GRO/DRO/MRO 500 GRO/DRO			500
TZ-Cell #1	CELL #1	9-Mar-22	0.5	NO SAMPLES COLLECTED			
TZ-Cell #2	CELL #2	9-Mar-22	0.5	<4.9	430	920	<60
TZ-Cell #3	CELL #3	9-Mar-22	0.5	<4.9	130	270	<60
TZ-Cell #4	CELL #4	9-Mar-22	0.5	NO SAMPLES COLLECTED			
TZ-Cell #1	CELL #1	16-Jun-22	0.5	NO SAMPLES COLLECTED			
TZ-Cell #2	CELL #2	16-Jun-22	0.5	<4.9	270	380	33
TZ-Cell #3	CELL #3	16-Jun-22	0.5	<4.6	210	470	24
TZ-Cell #4	CELL #4	16-Jun-22	0.5	NO SAMPLES COLLECTED			
ONLY CELLS 1 AND 2 SAMPLES WERE COLLECTED FROM THE TREATMENT ZONE. ALL SAMPLES WERE COMPOSITE SAMPLES.							

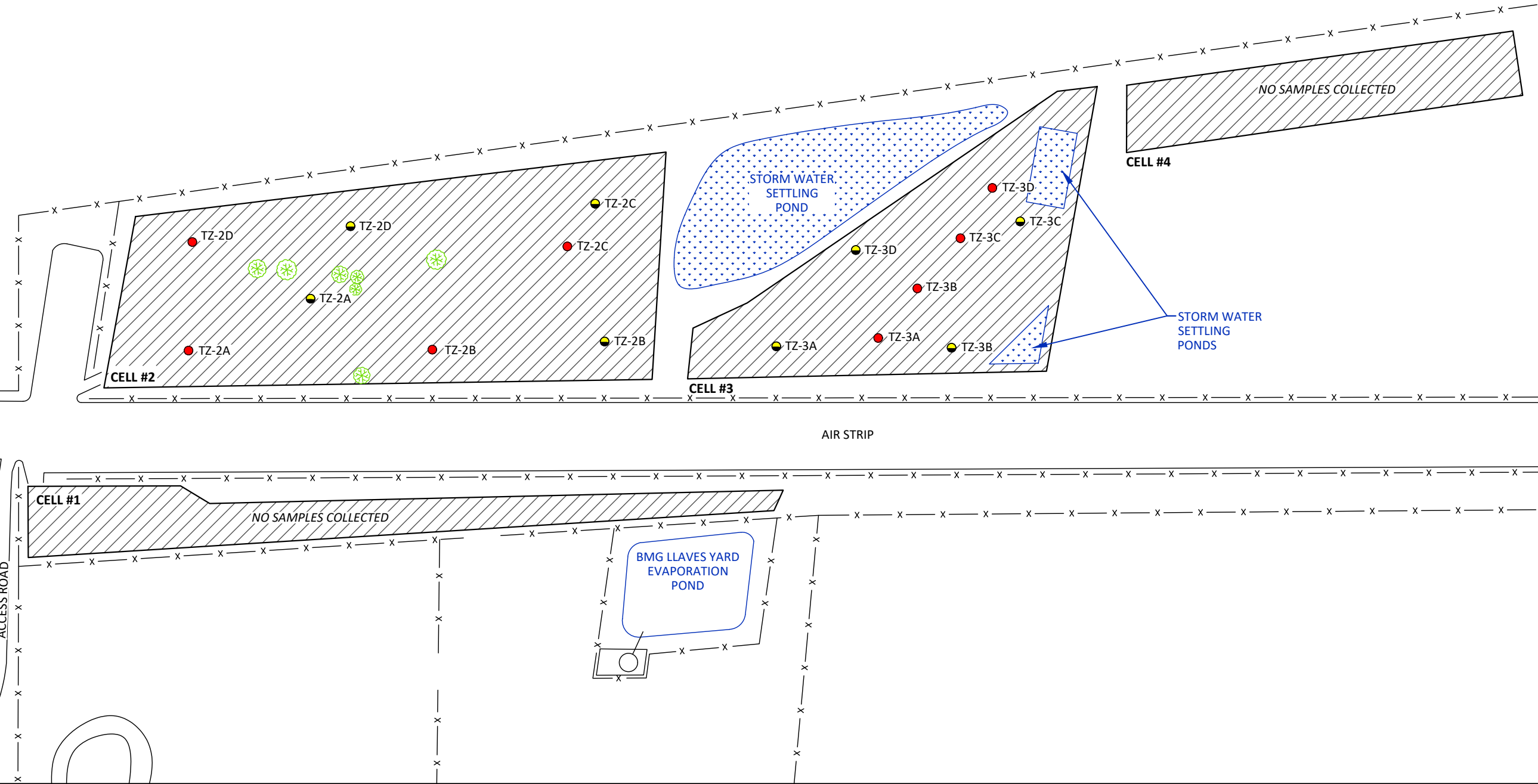


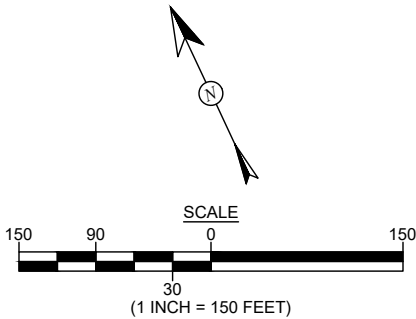
FIGURE 2

**BENSON-MONTIN-GREER
TREATMENT ZONE MONITORING
LOCATIONS AND RESULTS
2022**
NW¼ NW¼, SECTION 20, T25N, R12E
LLAVES, RIO ARriba COUNTY, NEW MEXICO



DRAWN BY: C. Lameman	DATE DRAWN: January 11, 2013
REVISIONS BY: C. Lameman	DATE REVISED: February 14, 2022
CHECKED BY: D. Reese	DATE CHECKED: February 14, 2022
APPROVED BY: E. McNally	DATE APPROVED: February 14, 2022

- LEGEND**
- MARCH 2022 SAMPLE LOCATIONS (FOR COMPOSITE SAMPLING)
 - JUNE 2022 SAMPLE LOCATIONS (FOR COMPOSITE SAMPLING)



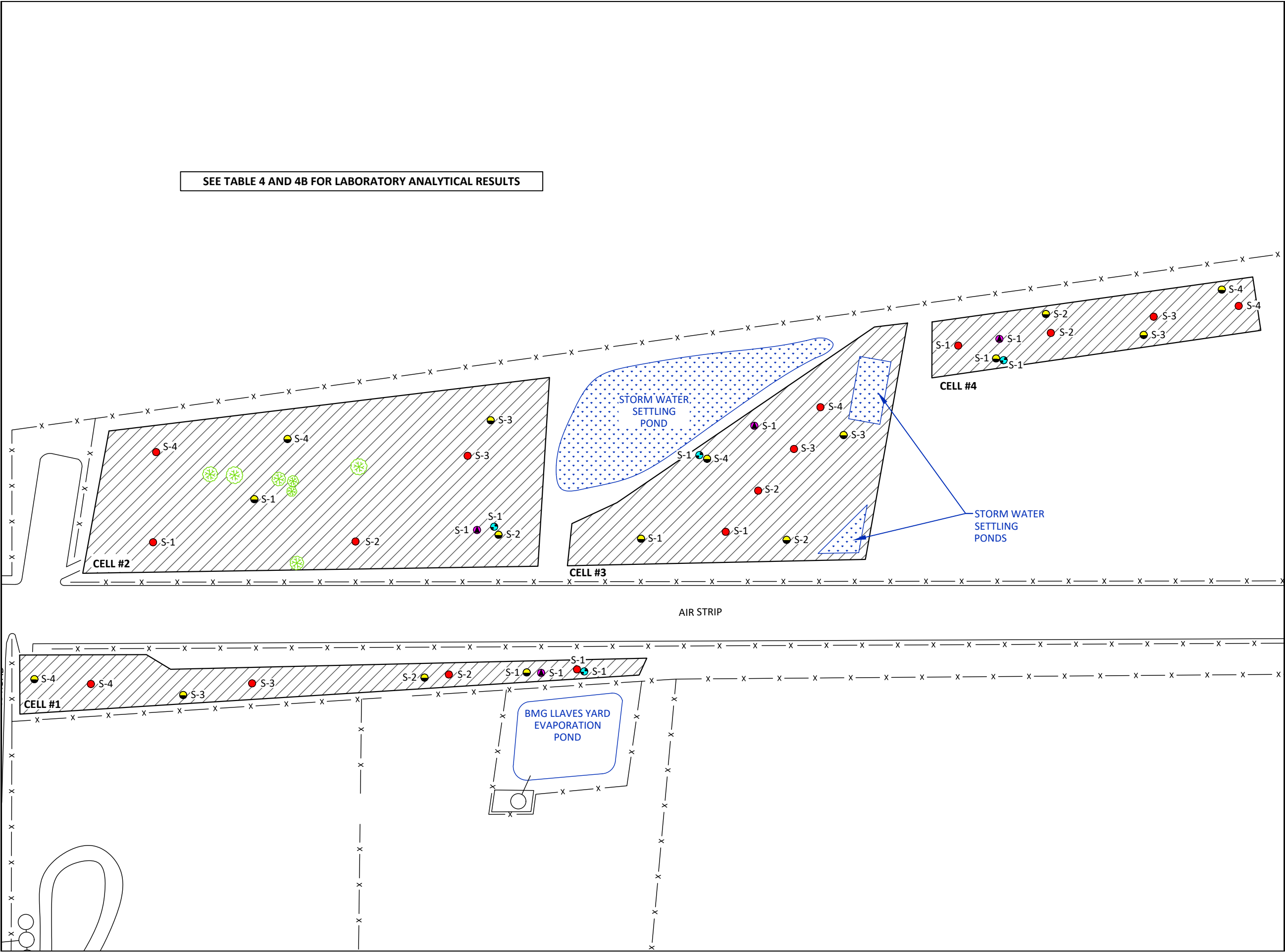


FIGURE 3

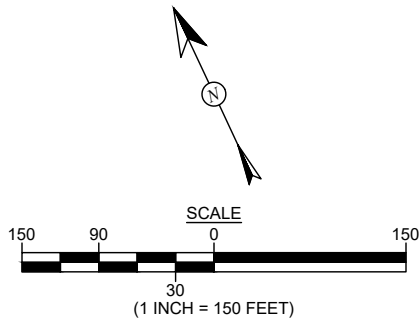
**BENSON-MONTIN-GREER
VADOSE ZONE MONITORING
LOCATIONS, 2022**
NW¼ NW¼, SECTION 20, T25N, R12E
LLAVES, RIO ARriba COUNTY, NEW MEXICO



DRAWN BY: C. Lameman	DATE DRAWN: January 11, 2013
REVISIONS BY: C. Lameman	DATE REVISED: September 12, 2023
CHECKED BY: K. Pickford	DATE CHECKED: September 12, 2023
APPROVED BY: E. McNally	DATE APPROVED: September 12, 2023

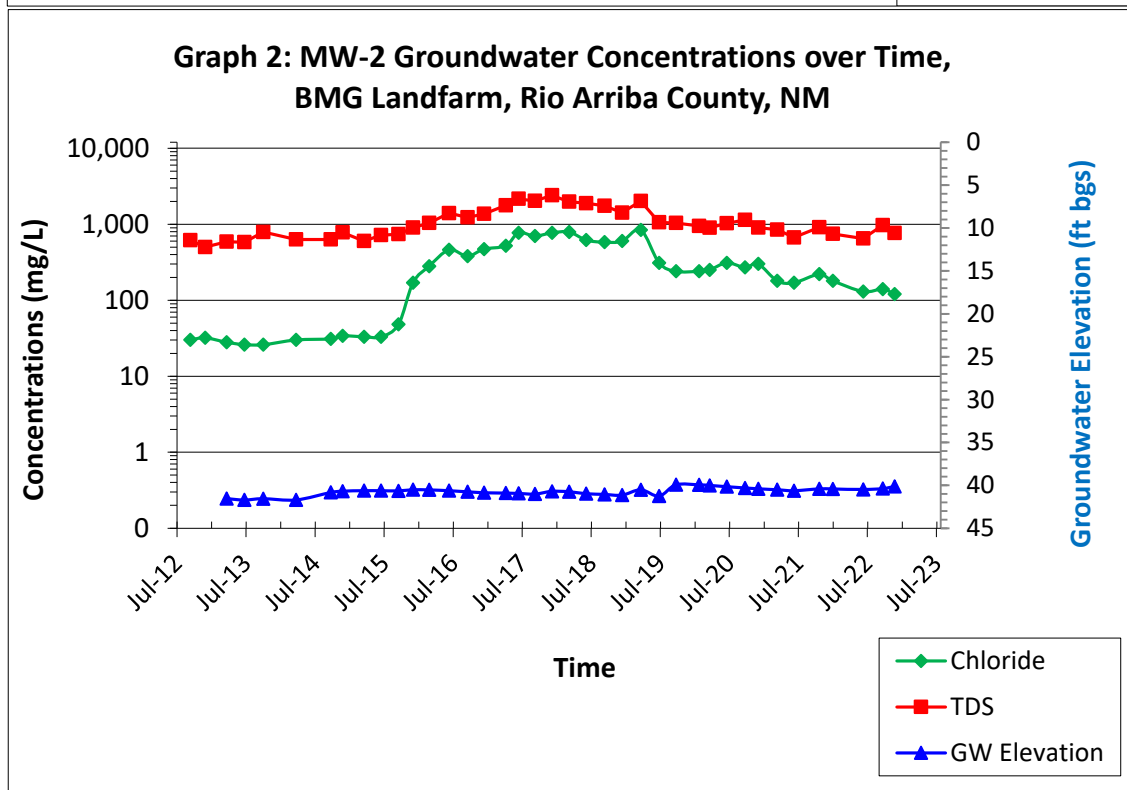
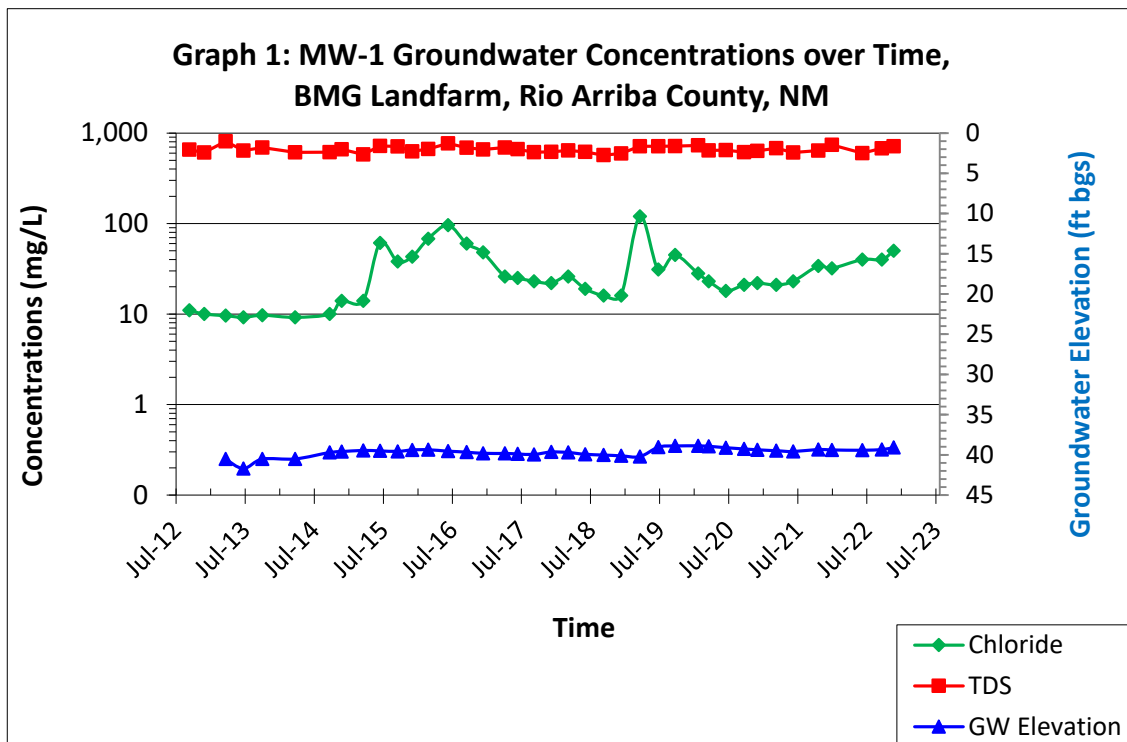
LEGEND

- MARCH 2022 SAMPLE LOCATIONS
- JUNE 2022 SAMPLE LOCATIONS
- SEPTEMBER 2022 SAMPLE LOCATIONS
- NOVEMBER 2022 SAMPLE LOCATIONS



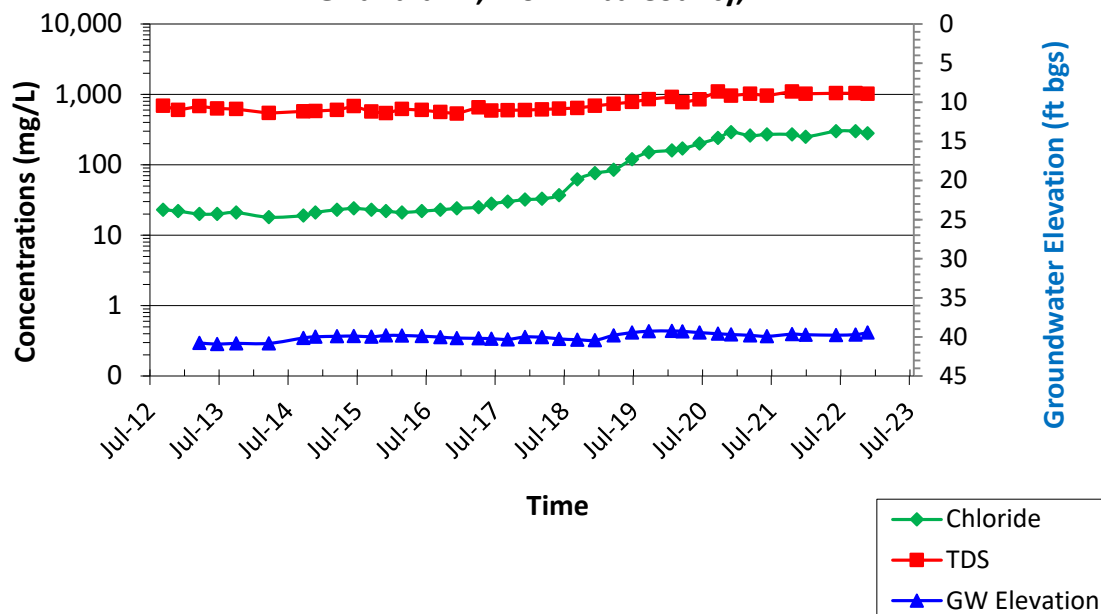
Graphs

GRAPHS
BMG Landfarm
Rio Arriba, County

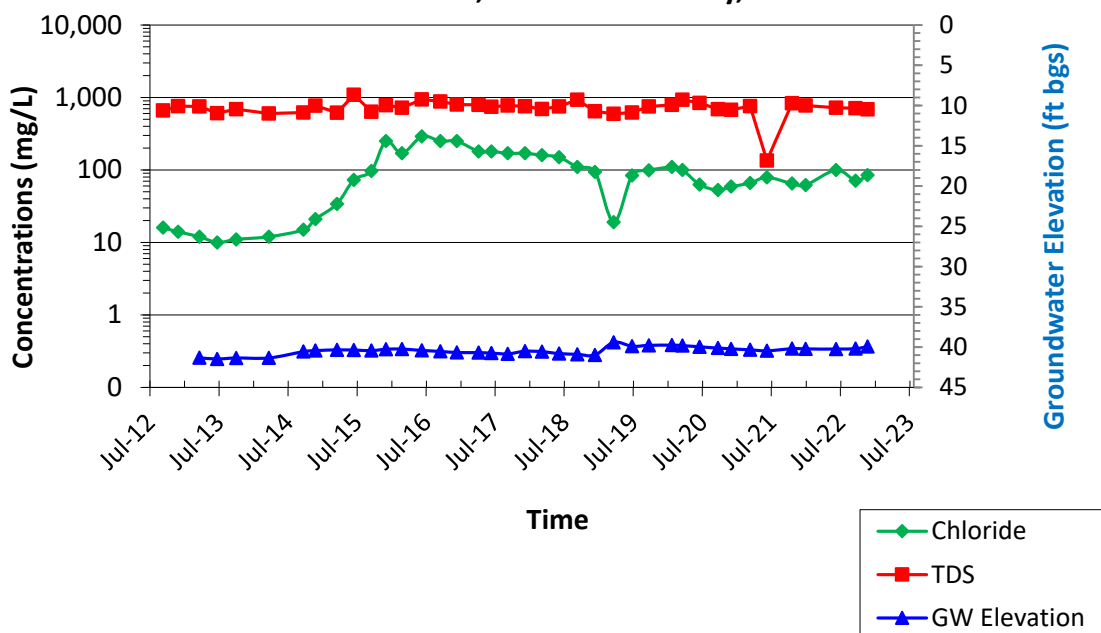


GRAPHS
BMG Landfarm
Rio Arriba, County

**Graph 3: MW-3 Groundwater Concentrations over Time,
BMG Landfarm, Rio Arriba County, NM**



**Graph 4: MW-4 Groundwater Concentrations over Time,
BMG Landfarm, Rio Arriba County, NM**



Appendix

BMG Landfarm Soil Sampling - Treatment Zone (TZ)

Composite Samples

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

Date: 3-9-22

Sampling Technician: oe/jo

CELL #1				
Sample ID:	TZ-1A	TZ-1B	TZ-1C	TZ-1D
GPS: (4 locations)				
Time of sample into bag:				
Sample depth (ft):				
Soil characteristics: (odor, color, texture)				
Composite Sample Time:				

CELL #2				
Sample ID:	TZ-2A	TZ-2B	TZ-2C	TZ-2D
GPS: (4 locations)	36.39069, -106.86697	36.38983, -106.86623	36.38979, -106.86557	36.39036, -106.86675
Time of sample into bag:	10:47	10:59	11:09	11:22
Sample depth (ft):	0.25	0.25	0.25	0.25
Soil characteristics: (odor, color, texture)	Sandy Clay, Moist, Brown No Stains No odor	Clay, Brown and Dark Brown Wet, No Stains, No odor	Clayey Sand, Wet, Dark Brown No Stains, No odor	Clayey Sand, Dark Brown Moist, No Stains No odor
Composite Sample Time:				11:24

CELL #3				
Sample ID:	TZ-3A	TZ-3B	TZ-3C	TZ-3D
GPS: (4 locations)	36.38905, -106.86478	36.38909, -106.86466	36.38918, -106.86445	36.38929, -106.86412
Time of sample into bag:	11:34	11:45	11:55	12:05
Sample depth (ft):	0.25	0.25	0.25	0.25
Soil characteristics: (odor, color, texture)	Clay Sand, Dark Brown, Moist No odor No Stain	Clay Sand, Dark Brown, Moist No odor No Stains	Clay Sand, Dark Brown, Moist No odor, No Stains, Organics	Clay Sand, Dark Brown, Moist No odor, No Stain
Composite Sample Time:				12:07

CELL #4				
Sample ID:	TZ-4A	TZ-4B	TZ-4C	TZ-4D
GPS: (4 locations)				
Time of sample into bag:				
Sample depth (ft):				
Soil characteristics: (odor, color, texture)				
Composite Sample Time:				

Additional Notes:

BMG Landfarm Soil Sampling - Vadose Zone (VZ)

* = grab sample.
Composite all cells

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

Date: 3-9-22 Sampling Technician: CL/SO

CELL #1 Composite Sample Time = 10:40				
Sample ID:	Cell #1 VZ S-1*	Cell #1 VZ S-2	Cell #1 VZ S-3	Cell #1 VZ S-4
GPS: (4 locations)	36.38896, -106.86555	36.38898, 106.86601	36.38941, 106.86695	36.38968, -106.86759
Sample Time:	10:03	No Sample only for Composite		
Shovel depth (ft)*:	3	4	4	4
Auger/Sample depth (ft)	4.5	4.5	4.5	4.5
Soil characteristics: (odor, color, texture)	Clay Brown, Shiff, No Stains, No odors.	Hard, Dry, Clay, Green-Gray, No Stains No odor	Hard, Dry, Clay, Dark Brown, No Stains No odor	Hard, Dry, Clay, Dark Brown

CELL #2 Composite Sample Time = 11:28				
Sample ID:	Cell #2 VZ S-1*	Cell #2 VZ S-2	Cell #2 VZ S-3	Cell #2 VZ S-4
GPS: (4 locations)	36.39009, -106.86697	36.38983, -106.86623	36.38979, -106.86557	
Sample Time:	10:55	No Samples; only for Composite		
Shovel depth (ft)*:	4	4	4	4
Auger/Sample depth (ft)	4.5	4.5	4.5	4.5
Soil characteristics: (odor, color, texture)	Sandy Clay, Dark Brown, Moist, Hard No Stains, No odor	Sand, Tan, Med, Moist, No odor No Stains	Sand, Tan, Med, Moist, No odor No Stains	Sand, Tan Brown, Med, Moist No odor No Stains

CELL #3 Composite Sample Time = 12:15				
Sample ID:	Cell #3 VZ S-1	Cell #3 VZ S-2*	Cell #3 VZ S-3*	Cell #3 VZ S-4 *
GPS: (4 locations)	36.38905, -106.86478	36.38909, -106.86466	36.38918, -106.86445	36.38929, -106.86412
Sample Time:	No Samples; only for Composite	11:50	12:01	12:12
Shovel depth (ft)*:	4	4	4	4
Auger/Sample depth (ft)	4.25	4.5	4.25	4.5
Soil characteristics: (odor, color, texture)	Hard Clay, Wet, Brown, No odor No Staining	Hard, Silty Clay, Tan, moist, No odor No Stains	Hard, Clay, Brown, Dry, No odor No Stains	Hard, Silty Clay, Brown Dry No odor No Stains

CELL #4 Composite Sample Time = 12:45				
Sample ID:	Cell #4 VZ S-1*	Cell #4 VZ S-2	Cell #4 VZ S-3	Cell #4 VZ S-4
GPS: (4 locations)	36.38932, -106.86344	36.38921, -106.86314	36.38908, -106.86275	36.38894, -106.86225
Sample Time:	12:27	No Samples; only for Composite		
Shovel depth (ft)*:	4.25	4.25	4.25	4.0
Auger/Sample depth (ft)	4.5	4.5	4.5	4.5
Soil characteristics: (odor, color, texture)	Hard, Silty Clay, Dry Tan, No odor No Stain	Hard, Silty Clay, Dry Tan, No odor No Stain	Hard, Silty Clay, Tan, Dry, No odor No Stains	Hard, Silty Clay, Tan, Dry, No odor No Staining

* - Backhoe used to shovel.

Additional Notes:

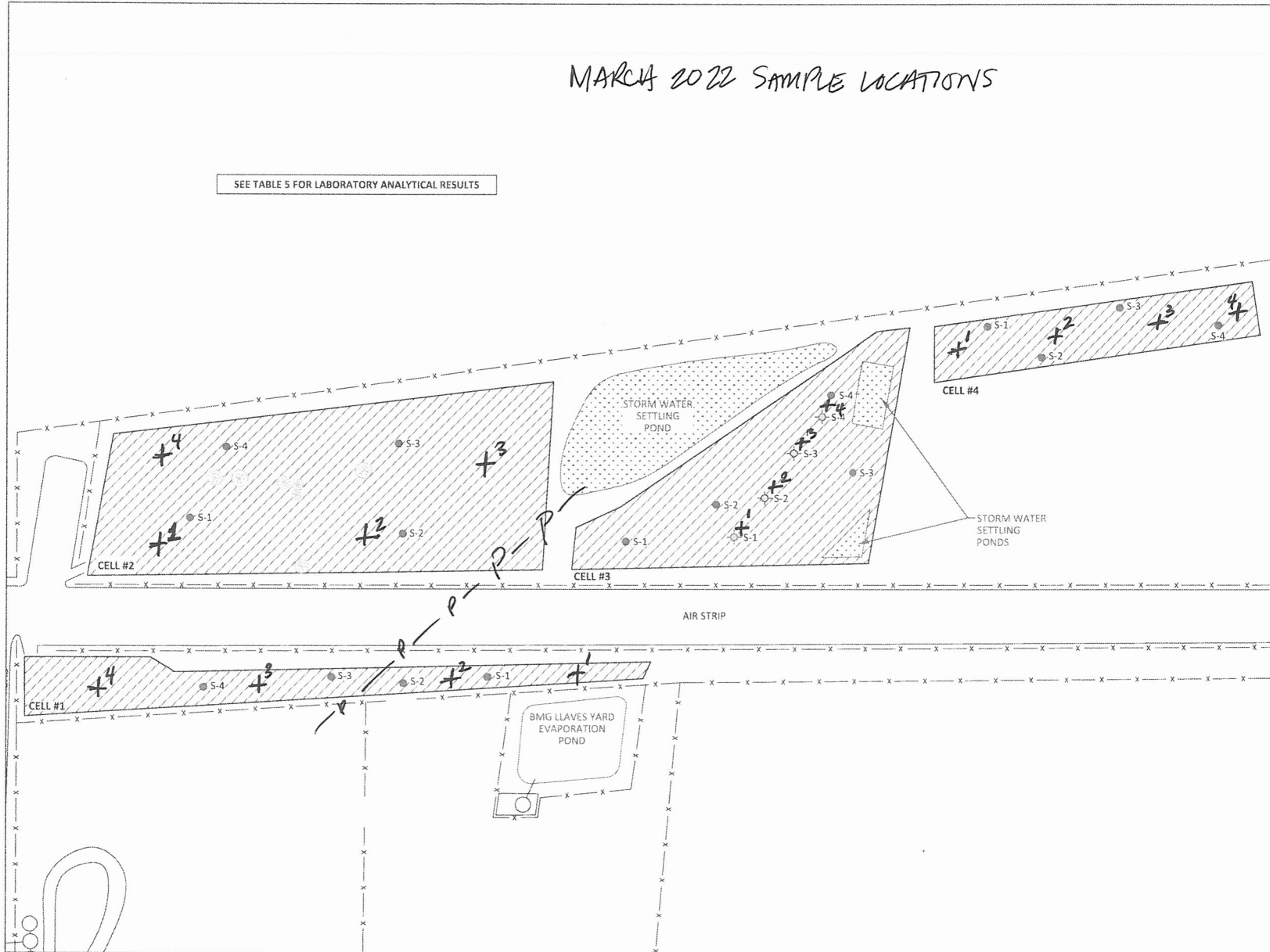


FIGURE 4

BENSON-MONTIN-GREER
VADOSE ZONE MONITORING
LOCATIONS, 2021
NW¼ NW¼, SECTION 20, T25N, R12E
LLAVES, RIO ARRIBA COUNTY, NEW MEXICO



DRAWN BY: C. Lameman	DATE DRAWN: January 11, 2013
REVISIONS BY: C. Lameman	DATE REVISED: February 14, 2022
CHECKED BY: D. Reese	DATE CHECKED: February 14, 2022
APPROVED BY: E. McNally	DATE APPROVED: February 14, 2022

BMG Landfarm Soil Sampling - Treatment Zone (TZ)

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

Date: 6-15-2022

Sampling Technician: A. Jo

CELL #1				
Sample ID:	TZ-1A	TZ-1B	TZ-1C	TZ-1D
GPS: (4 locations)				
Time of sample into bag:	NO SAMPLES			
Sample depth (ft):				
Soil characteristics: (odor, color, texture)				
Composite Sample Time:				

CELL #2				
Sample ID:	TZ-2A	TZ-2B	TZ-2C	TZ-2D
GPS: (4 locations)	36 23.403, -106 51.993	36 23.374, -106 51.984	36 23.398, -106 51.932	36 23.411, -106 51.974
Time of sample into bag:	11:04	11:17	11:37	11:46
Sample depth (ft):	0.25	0.25	0.25	0.25
Soil characteristics: (odor, color, texture)	Dry, Brown, Sand, Fl, No odor No stains	Thin Brown, Dry, Fl, Sand Cur No odor No stains	Brown, Sand, Dry, Fl, No odor No stains	Organics, Pine Needles, Dry Fl, Sand, No odor No stains
Composite Sample Time:	11:51			

CELL #3				
Sample ID:	TZ-3A	TZ-3B	TZ-3C	TZ-3D
GPS: (4 locations)	36 23.354, -106 51.910	36 23.332, -106 51.873	36 23.349, -106 51.841	36 23.364, -106 51.870
Time of sample into bag:	12:02	12:20	12:34	12:51
Sample depth (ft):	0.25	0.25	0.25	0.25
Soil characteristics: (odor, color, texture)	Brown, Dry,	Fl Sand w/ Red Hard Sand No stains No odors	Brown, Dry, Fl, Sand, No odor No stains	Clay Brown Hard Fl No odor No stains
Composite Sample Time:	12:34			

CELL #4				
Sample ID:	TZ-4A	TZ-4B	TZ-4C	TZ-4D
GPS: (4 locations)				
Time of sample into bag:	NO SAMPLES			
Sample depth (ft):				
Soil characteristics: (odor, color, texture)				
Composite Sample Time:				

Additional Notes:

Released by Imaging: 4/8/2023 11:13:33 AM

Page 115 of 404
Received by OCD: 10/4/2023 11:13:33 AM

BMG Landfarm Soil Sampling - Vadose Zone (VZ)

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

Date: 6-15-2022 Sampling Technician: CL/SO

CELL #1				
Sample ID:	Cell #1 VZ S-1	Cell #1 VZ S-2	Cell #1 VZ S-3	Cell #1 VZ S-4
GPS: (4 locations)	36 23.334, -106 51.947	36 23.346, -106 51.976	36 23.367, -106 52.034	36 23.387, -106 52.069
Sample Time:	10:11	10:25	10:45	10:58
Shovel depth (ft)*:	4.0'	4.0'	4.0'	5.0'
Auger/Sample depth (ft)	4.2'	4.5'	4.5'	5.4'
Soil characteristics: (odor, color, texture)	Brown, Dry, Clay Sand, No odor No Stains	Brown, Moist, Clay Sand, No odor No Stains	Dark Brown, Moist, Clay Sand, No odor No Stains	Brown, Dry, White specks, No odor No Stains

CELL #2				
Sample ID:	Cell #2 VZ S-1	Cell #2 VZ S-2	Cell #2 VZ S-3	Cell #2 VZ S-4
GPS: (4 locations)	36 23.403, -106 51.993	36 23.374, -106 51.954	36 23.398, -106 51.932	36 23.411, -106 51.984
Sample Time:	4.2' 11:11	11:26	11:39	11:56
Shovel depth (ft)*:	4.6'	4.0'	4.3'	4.5'
Auger/Sample depth (ft)	5	4.5'	4.7'	4.9'
Soil characteristics: (odor, color, texture)	Weathered SS, Fb-MG, Dry, No odor, No Stain, Tan	Sand, Tan-Brown, Moist, No odor No Stains, Fb-MG	Weathered SS, Tan, Fb-MG, No odor No Stains Moist	Weathered SS, Tan, Fb-MG, No odor No Stain

CELL #3				
Sample ID:	Cell #3 VZ S-1	Cell #3 VZ S-2	Cell #3 VZ S-3	Cell #3 VZ S-4
GPS: (4 locations)	36 23.354, -106 51.910	36 23.332, -106 51.873	36 23.349, -106 51.841	36 23.364, -106 51.870
Sample Time:	1212	1227	1245	1301
Shovel depth (ft)*:	4.4'	4.0'	4.3'	4.2'
Auger/Sample depth (ft)	4.9'	4.4'	4.7'	4.6'
Soil characteristics: (odor, color, texture)	Chocolate Brown, Dry, Clay, Hard No Stain, No odor, Salt lumps	Hard Clay, Brown, Moist, No odor No Stains	Hard, Brown, Clay, Dry, No odor No Stains	Sand, Tan, Moist, No odor, No Stains Fb-MG

CELL #4				
Sample ID:	Cell #4 VZ S-1	Cell #4 VZ S-2	Cell #4 VZ S-3	Cell #4 VZ S-4
GPS: (4 locations)	36 23.351, -106 51.801	36 23.357, -106 51.777	36 23.337, -106 51.765	36 23.343, -106 51.739
Sample Time:	1320	1336	1351	1402
Shovel depth (ft)*:	4.0'	4.0'	4.5'	4.5'
Auger/Sample depth (ft)	4.4'	4.4'	4.9'	4.9'
Soil characteristics: (odor, color, texture)	Brown, Moist, Sand Clay, Fb, No odor No Stains	Brown, Hard, Clay Sand, Fb, No odor No Stains	Brown, Sand, Dry, Fb, No odor No Stains	Light Brown, Sand, Hard Fb, No odor No Stains

* - Backhoe used to shovel.

Additional Notes:

Released to Imaging: 4/8/2025 10:47:33 AM

Received by OCD: 10/4/2023 11:13:53 AM Page 116 of 404

JUNE 2022 SAMPLE LOCATIONS

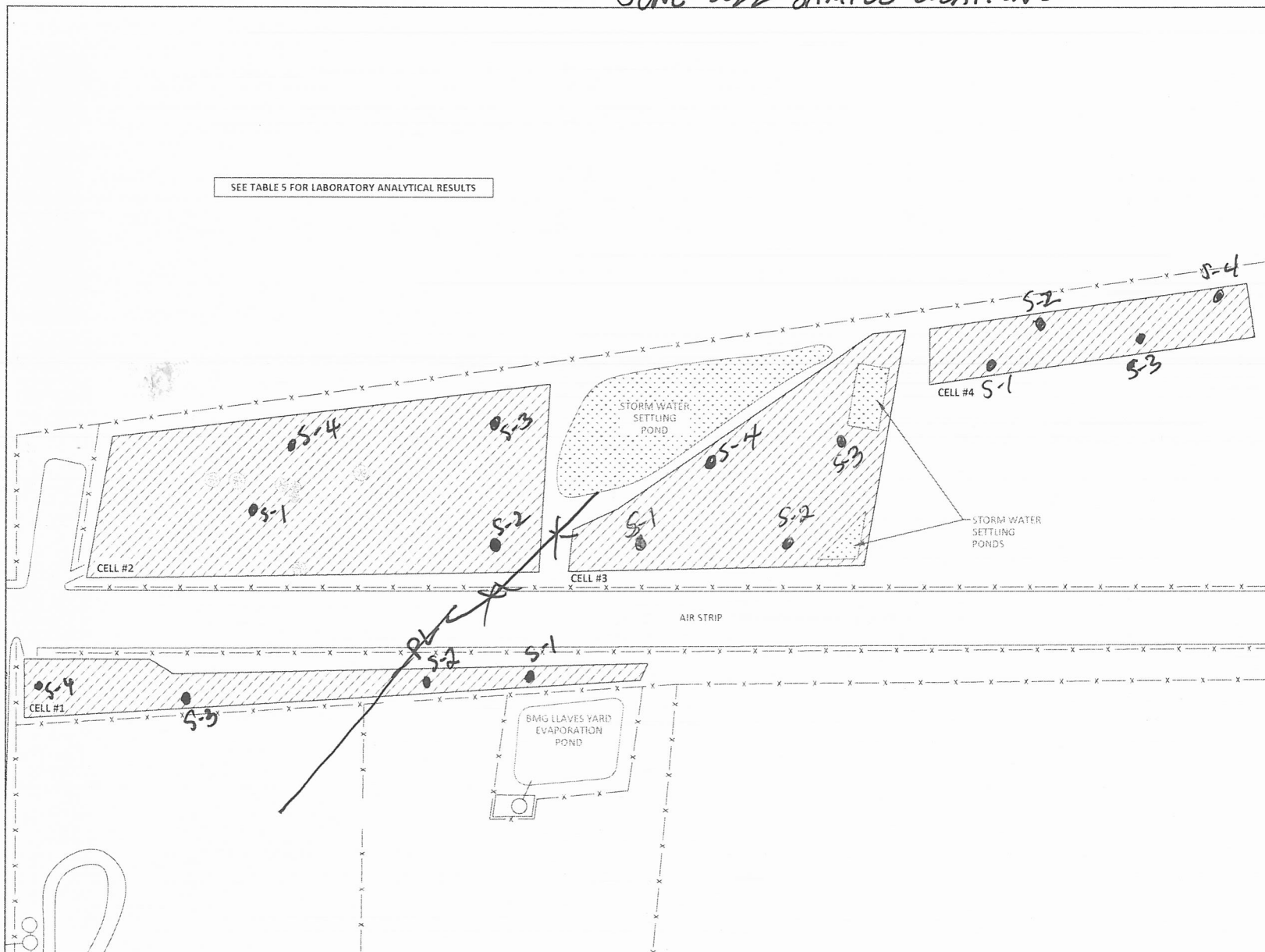


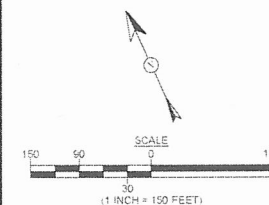
FIGURE 4

BENSON-MONTIN-GREER
VADOSE ZONE MONITORING
LOCATIONS, 2021
NW¼, NW¼, SECTION 20, T25N, R12E
LLAVES, RIO ARriba COUNTY, NEW MEXICO



DRAWN BY: C. Lameman	DATE DRAWN: January 11, 2013
REVISIONS BY: C. Lameman	DATE REVISED: February 14, 2022
CHECKED BY: D. Reese	DATE CHECKED: February 14, 2022
APPROVED BY: E. McNally	DATE APPROVED: February 14, 2022

LEGEND



Animas Environmental Services

624 E. Comanche St., Farmington NM 87401

Tel. (505) 564-2281 Fax (505) 324-2022

Project No.: AES

Date: 6-16-22

Arrival Time: 11:45

Air Temp: 84° Sunny

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

Total Well Depth (ft): 45.64

Time: 11:47

(taken at initial gauging of all wells)

Time: 11:49

(taken prior to purging well)

Time: 12:12

(taken after sample collection)

D.T.W.:

Thickness: _____ Time: _____

Water Quality Parameters - Recorded During Well Purging

YSI 1 - Calibrated: 5-11-22 90

[illegible]

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

Full VOCs per EPA Method 8021 (3 - 40 mL Vials w/ HgCl2 preserve)

TPH (GRO/DRO/MRO) per EPA Method 8015 (1 - 250 mL amber glass w/ no preserve)

TDS per EPA Method SM2540C and Chlorides per EPA Method 300.0 (1-500mL Plastic w/ no preserve)

Disposal of Purged Water: On ground - No drainage to SW drains

Collected Samples Stored on Ice in Cooler: yes

Chain of Custody Record Complete: URS

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 Range 2.6 gallons*

Actual Purge 1.25 gallons

MW has low recharge

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: Evaporation Pond

Location: BMG

Project: Groundwater Monitoring and Sampling

Sampling Technician:

Purge / No Purge: _____ Purge

Well Diameter (in): 2

Initial D.T.W. (ft): 39.77

Time: 12:23 (taken at initial gauging of all wells)

Confirm D.T.W. (ft): 39.77

Time: 12:25 (taken prior to purging well)

Final D.T.W. (ft): 44.81

Time: 12:41 (taken after sample collection)

If NAPL Present: D.T.P.:

D.T.W.: _____ Thickness: _____ Time: _____

Project No.: AES

Date: 6-16-22

Arrival Time: 12:20

Air Temp: 89° Sunny

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

Total Well Depth (ft): 45.61

Water Quality Parameters - Recorded During Well Purging

YSI 1 - Calibrated: 5-11-22 JK

[illegible]

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

Full VOCs per EPA Method 8021 (3 - 40 mL Vials w/ HgCl₂ preserve)

TPH (GRO/DRO/MRO) per EPA Method 8015 (1 - 250 mL amber glass w/ no preserve)

TDS per EPA Method SM2540C and Chlorides per EPA Method 300.0 (1-500mL Plastic w/ no preserve)

Disposal of Purged Water: On Ground - No discharge to SW drains

Collected Samples Stored on Ice in Cooler: *yes*

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: Calculated purge 2.8 gallons
Actual purge 1.5 gallons

MONITORING WELL SAMPLING RECORDMonitor Well No: MW-2

Animas Environmental Services

624 E. Comanche St., Farmington NM 87401

Tel. (505) 564-2281 Fax (505) 324-2022

Site: Evaporation PondProject No.: AESLocation: BMGDate: 6-16-22Project: Groundwater Monitoring and SamplingArrival Time: 12:58Sampling Technician: JSAir Temp: 90° SunnyPurge / No Purge: PurgeT.O.C. Elev. (ft): Well Diameter (in): 2Total Well Depth (ft): 45.56Initial D.T.W. (ft): 40.48 Time: 13:05 (taken at initial gauging of all wells)Confirm D.T.W. (ft): 40.48 Time: 13:07 (taken prior to purging well)Final D.T.W. (ft): 44.68 Time: 13:29 (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: 5-11-22JS

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
<u>13:09</u>	<u>13.9</u>	<u>1003</u>	<u>5.2</u>	<u>7.2</u>	<u>216.3</u>	<u>.25</u>	<u>Turbid Brown to color</u>
<u>13:15</u>	<u>13.6</u>	<u>969</u>	<u>6.1</u>	<u>7.3</u>	<u>212</u>	<u>1 gallon</u>	<u>S.A.A</u>
<u>13:20</u>						<u>Samples Collected</u>	

Analytical Parameters (include analysis method and number and type of sample containers)Full VOCs per EPA Method 8021 (3 - 40 mL Vials w/ HgCl₂ preserve)

TPH (GRO/DRO/MRO) per EPA Method 8015 (1 - 250 mL amber glass w/ no preserve)

TDS per EPA Method SM2540C and Chlorides per EPA Method 300.0 (1-500mL Plastic w/ no preserve)

Disposal of Purged Water: On ground - No drainage to SW drainCollected Samples Stored on Ice in Cooler: yesChain of Custody Record Complete: yesAnalytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NMEquipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meterand New Disposable BailerNotes/Comments: Estimated purge 2.4 gallons

BMG Landfarm Sampling - Vadose Zone (VZ)

Date: 9-27-2022

Cell #	1
Sample ID: (S-1 through S-4)	Cell #1 VZ S-1
GPS:	36.38889, -106.86581
Time of sample:	9:44
Shovel depth:	4.0'
Auger depth (2.5' total depth):	4.5'
Soil characteristics: (odor, color, texture)	Red-Brown Sand, Dry, No odor, No Staining

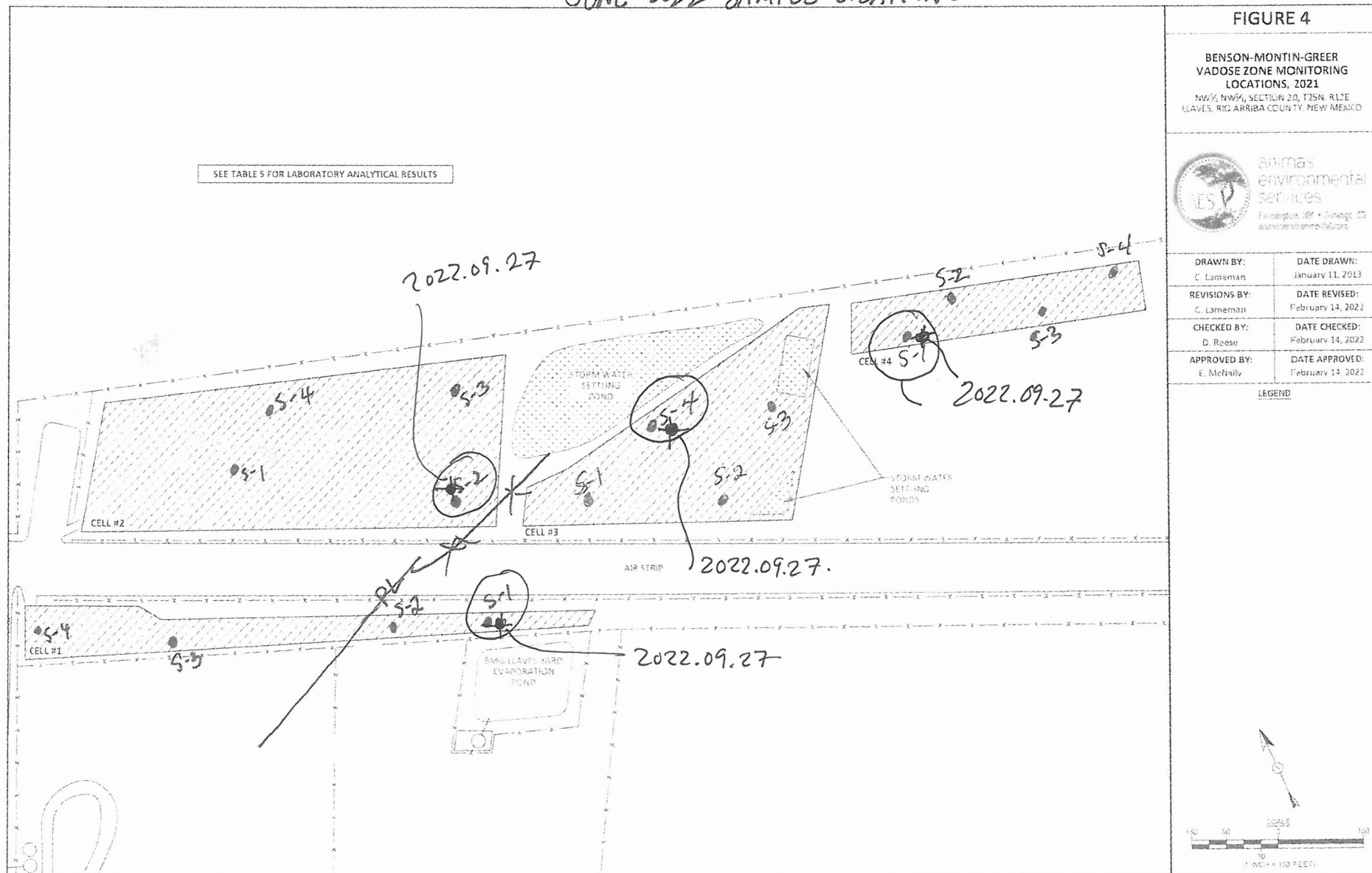
Cell #	2
Sample ID: (S-1 through S-4)	Cell # 2 VZ S-2
GPS:	36.38956, -106.86573
Time of sample:	9:59
Shovel depth:	4.0
Auger depth (2.5' total depth):	4.5'
Soil characteristics: (odor, color, texture)	Brown-Tan. Moist, Sand, Soft, No odor No Staining

Cell #	3
Sample ID: (S-1 through S-4)	Cell #3 VZ S-4
GPS:	36.38939, -106.86449
Time of sample:	10:24
Shovel depth:	4.0'
Auger depth (2.5' total depth):	4.5'
Soil characteristics: (odor, color, texture)	Brown-Tan, Sand, Moist, Soft, No odor, No Staining

Cell #	4
Sample ID: (S-1 through S-4)	Cell # 4 VZ S-1
GPS:	36.38920, -106.86333
Time of sample:	10:43
Shovel depth:	4.0'
Auger depth (2.5' total depth):	4.5'
Soil characteristics: (odor, color, texture)	Brown, Sand and then Clay Sand, FB, Sl. Moist, No odor, No Staining

4068

JUNE 2022 SAMPLE LOCATIONS



[illegible]

Animas Environmental Services

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

Project No.: AES

Date: 9-27-22

Arrival Time: 12:40

Air Temp:

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

Total Well Depth (ft): 45.61

Confirm D.T.W. (ft): 39.70 Time: 12:49 (taken prior to purging well)

Confirm D.T.W. (ft): 39.70 Time: 12:49 (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:

Water Quality Parameters - Recorded During Well Purging

YSI / - Calibrated: 9-26-22 50

[illegible]

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

Full VOCs per EPA Method 8021 (3 - 40 mL Vials w/ HgCl₂ preserve)

TPH (GRO/DRO/MRO) per EPA Method 8015 (1 - 250 mL amber glass w/ no preserve)

TDS per EPA Method SM2540C and Chlorides per EPA Method 300.0 (1-500mL Plastic w/ no preserve)

Disposal of Purged Water: On the Ground - No Drainage to SW Drain

Collected Samples Stored on Ice in Cooler: Yes or No Samples

Chain of Custody Record Complete: Yes No Samples

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 Pulp Volume ~ 17A

On Arrival there was no PVC Well Cap Secured to the Well. Evidence to Wildlife (Elk) using the Stick-up Well as a scratch post. Unknown how long the well has been exposed to the elements, trap and spray and Wildlife hair in Well. PVC Well Cap Replaced.

Released to Imaging: 4/8/2025 10:47:33 AM

Animas Environmental Services

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

Project No.: AES

Date: Nov 2, 2022

Arrival Time: 8:20

Air Temp: 33°

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

Total Well Depth (ft): 45.56

(taken at initial gauging of all wells)

(taken prior to purging well)

Time: _____ (taken after sample collection)

Thickness:

Time:

Water Quality Parameters - Recorded During Well Purging

YSI - Calibrated:

Sample Collected

Analytical Parameters (include analysis method and number and type of sample containers)Full VOCs per EPA Method 8021 (3 - 40 mL Vials w/ HgCl₂ preserve)

TPH (GRO/DRO/MRO) per EPA Method 8015 (1 - 250 mL amber glass w/ no preserve)

TDS per EPA Method SM2540C and Chlorides per EPA Method 300.0 (1-500mL Plastic w/ no preserve)

On gravel - No drawings to SW down

mis

140

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: 8.1⁴⁰ Low Recharge 8.1⁴¹

Calculated range $2.6 \approx 3.0$ yellow

Animas Environmental Services

624 E. Comanche St., Farmington NM 87401

Site: Evaporation Pond**Project No.: AES**

Location: BMG

Date: 11-2-22

Project: Groundwater Monitoring and Sampling

Arrival Time: 8:51

Sampling Technician:

Air Temp: 33

Purge / No Purge:	Purge
-------------------	-------

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

Well Diameter (in): 2

Total Well Depth (ft): 45.61

Initial D.T.W. (ft): 39.53

Time: 8:53

(taken at initial gauging of all wells)

Confirm D.T.W. (ft): 39.53

Time: 8:54

(taken prior to purging well)

Final D.T.W. (ft): 44.79

Time: 9:13

(taken after sample collection)

If NAPL Present: D.T.P.:

D.T.W.:

Thickness: _____ **Time:** _____

Water Quality Parameters - Recorded During Well Purging

YSI - Calibrated:

[illegible]**Analytical Parameters (include analysis method and number and type of sample containers)**Full VOCs per EPA Method 8021 (3 - 40 mL Vials w/ HgCl₂ preserve)

TPH (GRO/DRO/MRO) per EPA Method 8015 (1 - 250 mL amber glass w/ no preserve)

TDS per EPA Method SM2540C and Chlorides per EPA Method 300.0 (1-500mL Plastic w/ no preserve)

Disposal of Purged Water: On ground - No drainage To SW drain

Collected Samples Stored on Ice in Cooler: 44

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: 9:10 - Low Baking

Calculated Price - 2.9 gallons $\approx$ 30 gallons

BMG Landfarm Sampling - Vadose Zone (VZ)

Date: 11/29/2022

Cell #	1
Sample ID:	
(S-1 through S-4)	CELL #1 VZ S-1
GPS:	N. 36.23.330 N. 106.51.948
Time of sample:	9:15
Shovel depth:	4.0"
Auger depth (total depth):	4.5"
Soil characteristics:	RED
(odor, color, texture)	BROWN SAND, MOIST NO ODOR NO STAINING.

Cell #	2
Sample ID:	
(S-1 through S-4)	CELL #2 VZ S-2
GPS:	36.38956 - 106.86579
Time of sample:	9:55
Shovel depth:	4.0
Auger depth (total depth):	4.5
Soil characteristics:	
(odor, color, texture)	BROWN TAN MOIST SAND NO ODOR NO STAINING.

Cell #	3
Sample ID:	
(S-1 through S-4)	CELL #3 VZ S-4
GPS:	36 36.38938 106.86441
Time of sample:	10:27
Shovel depth:	4.0
Auger depth (total depth):	4.5'
Soil characteristics:	BROWN
(odor, color, texture)	TAN MOIST SAND NO ODOR NO STAINING.

Cell #	4
Sample ID:	
(S-1 through S-4)	CELL #4 VZ S-1
GPS:	36.38926 106.86329
Time of sample:	10:52
Shovel depth:	4.0
Auger depth (total depth):	4.5
Soil characteristics:	
(odor, color, texture)	TAN DRY SANDY NO ODOR NO STAINING.

November 2012 Sample Locations



Released to Imaging: 4/8/2025 10:47:33 AM

MONITORING WELL SAMPLING RECORD

Animas Environmental Services

Monitor Well No: **MW-2**

624 E. Comanche St., Farmington NM 87401

Tel. (505) 564-2281 Fax (505) 324-2022

Site: Evaporation PondProject No.: AESLocation: BMGDate: 11-29-22Project: Groundwater Monitoring and SamplingArrival Time: 14:29Sampling Technician: J/KAir Temp: 40° windy - sunnyPurge / No Purge: PurgeT.O.C. Elev. (ft): Well Diameter (in): 2Total Well Depth (ft): 45.56Initial D.T.W. (ft): 40.12Time: 14:35 (taken at initial gauging of all wells)Confirm D.T.W. (ft): 40.12Time: 14:35 (taken prior to purging well)Final D.T.W. (ft): 44.00Time: 14:53 (taken after sample collection)If NAPL Present: D.T.P.: D.T.W.: Thickness: Time: **Water Quality Parameters - Recorded During Well Purging**YSI 2 - Calibrated: 11-28-22 56

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
<u>14:41</u>	<u>13.5</u>	<u>1803</u>	<u>7.6</u>	<u>7.2</u>	<u>190.3</u>	<u>.25 initial</u>	<u>Fair, no odor</u>
<u>14:44</u>	<u>12.9</u>	<u>1659</u>	<u>8.2</u>	<u>7.3</u>	<u>190.8</u>	<u>1 gallon</u>	<u>S.A.A.</u>
<u>14:50</u>						<u>Samples collected</u>	

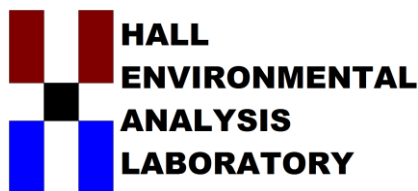
Analytical Parameters (include analysis method and number and type of sample containers)

Full VOCs per EPA Method 8021 (3 - 40 mL Vials w/ HgCl2 preserve)

TPH (GRO/DRO/MRO) per EPA Method 8015 (1 - 250 mL amber glass w/ no preserve)

TDS per EPA Method SM2540C and Chlorides per EPA Method 300.0 (1-500mL Plastic w/ no preserve)

Disposal of Purged Water: On ground - No discharge to SW drainsCollected Samples Stored on Ice in Cooler: YESChain of Custody Record Complete: YESAnalytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NMEquipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter
and New Disposable BailorNotes/Comments: 2.4 Calculated Gauge



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

March 21, 2022

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

RE: BMG Landfarm TZ Soil Samples

OrderNo.: 2203680

Dear Angela Ledgerwood:

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

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2203680

Date Reported: 3/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #2 TZ CS-1

Project: BMG Landfarm TZ Soil Samples

Collection Date: 3/9/2022 11:24:00 AM

Lab ID: 2203680-001

Matrix: SOIL

Received Date: 3/11/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	430	93		mg/Kg	10	3/15/2022 1:58:39 PM
Motor Oil Range Organics (MRO)	920	470		mg/Kg	10	3/15/2022 1:58:39 PM
Surr: DNOP	0	51.1-141	S	%Rec	10	3/15/2022 1:58:39 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/15/2022 2:45:07 AM
Surr: BFB	104	70-130		%Rec	1	3/15/2022 2:45:07 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/15/2022 2:45:07 AM
Toluene	ND	0.049		mg/Kg	1	3/15/2022 2:45:07 AM
Ethylbenzene	ND	0.049		mg/Kg	1	3/15/2022 2:45:07 AM
Xylenes, Total	ND	0.099		mg/Kg	1	3/15/2022 2:45:07 AM
Surr: 4-Bromofluorobenzene	95.6	70-130		%Rec	1	3/15/2022 2:45:07 AM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	ND	60		mg/Kg	20	3/17/2022 6:06:30 PM

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

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

Analytical Report

Lab Order 2203680

Date Reported: 3/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #3 TZ CS-1

Project: BMG Landfarm TZ Soil Samples

Collection Date: 3/9/2022 12:07:00 PM

Lab ID: 2203680-002

Matrix: SOIL

Received Date: 3/11/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	130	9.9		mg/Kg	1	3/16/2022 5:34:17 PM
Motor Oil Range Organics (MRO)	270	50		mg/Kg	1	3/16/2022 5:34:17 PM
Surr: DNOP	116	51.1-141		%Rec	1	3/16/2022 5:34:17 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/15/2022 3:08:24 AM
Surr: BFB	99.7	70-130		%Rec	1	3/15/2022 3:08:24 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/15/2022 3:08:24 AM
Toluene	ND	0.049		mg/Kg	1	3/15/2022 3:08:24 AM
Ethylbenzene	ND	0.049		mg/Kg	1	3/15/2022 3:08:24 AM
Xylenes, Total	ND	0.097		mg/Kg	1	3/15/2022 3:08:24 AM
Surr: 4-Bromofluorobenzene	93.8	70-130		%Rec	1	3/15/2022 3:08:24 AM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	ND	60		mg/Kg	20	3/17/2022 7:08:31 PM

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2203680
21-Mar-22

Client: Animas Environmental Services
Project: BMG Landfarm TZ Soil Samples

Sample ID: MB-66250	SampType: mblk	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 66250	RunNo: 86570
Prep Date: 3/17/2022	Analysis Date: 3/17/2022	SeqNo: 3055565 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-66250	SampType: lcs	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 66250	RunNo: 86570
Prep Date: 3/17/2022	Analysis Date: 3/17/2022	SeqNo: 3055566 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 91.5 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 Quantitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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

WO#: 2203680

21-Mar-22

Client: Animas Environmental Services
Project: BMG Landfarm TZ Soil Samples

Sample ID: LCS-66161	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 66161			RunNo: 86464						
Prep Date: 3/14/2022	Analysis Date: 3/15/2022			SeqNo: 3051926		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	89.9	68.9	135			
Surr: DNOP	4.1		5.000		81.3	51.1	141			

Sample ID: MB-66161	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 66161			RunNo: 86464						
Prep Date: 3/14/2022	Analysis Date: 3/15/2022			SeqNo: 3051927		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.9		10.00		89.0	51.1	141			

Sample ID: LCS-66204	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 66204			RunNo: 86505						
Prep Date: 3/16/2022	Analysis Date: 3/16/2022			SeqNo: 3052645		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.6		5.000		92.3	51.1	141			

Sample ID: MB-66204	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 66204			RunNo: 86505						
Prep Date: 3/16/2022	Analysis Date: 3/16/2022			SeqNo: 3052646		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.2		10.00		92.2	51.1	141			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix interference

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2203680
21-Mar-22

Client: Animas Environmental Services
Project: BMG Landfarm TZ Soil Samples

Sample ID: mb-66140	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 66140	RunNo: 86458								
Prep Date: 3/13/2022	Analysis Date: 3/14/2022	SeqNo: 3050309	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		106	70	130			

Sample ID: lcs-66140	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 66140	RunNo: 86458								
Prep Date: 3/13/2022	Analysis Date: 3/14/2022	SeqNo: 3050310	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	102	78.6	131			
Surr: BFB	2100		1000		215	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 Quantitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 5 of 6

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

WO#: 2203680

21-Mar-22

Client: Animas Environmental Services
Project: BMG Landfarm TZ Soil Samples

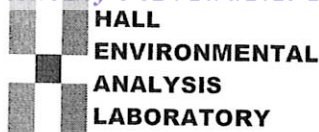
Sample ID: mb-66140	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 66140		RunNo: 86458							
Prep Date: 3/13/2022	Analysis Date: 3/14/2022		SeqNo: 3050380		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.97		1.000		96.9	70	130			

Sample ID: LCS-66140	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 66140		RunNo: 86458							
Prep Date: 3/13/2022	Analysis Date: 3/14/2022		SeqNo: 3050381		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	89.6	80	120			
Toluene	0.94	0.050	1.000	0	93.8	80	120			
Ethylbenzene	0.95	0.050	1.000	0	95.2	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.5	80	120			
Surr: 4-Bromofluorobenzene	0.98		1.000		97.6	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 Quantitative Limit
S % Recovery outside of range due to dilution or matrix interference

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



Hall Environmental Analysis Laboratory
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: **2203680**

RcptNo: 1

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

Completed By: **Desiree Dominguez** 3/11/2022 11:30:54 AM

Reviewed By: **TMC**

3/11/22

[Handwritten signatures and initials]

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐

2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐

4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☐ No ☒ NA ☐

5. Sample(s) in proper container(s)? Samples not frozen. Yes ☒ No ☐

6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐

7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐

8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐

9. Received at least 1 vial with headspace $<1/4$ " for AQ VOA? Yes ☐ No ☐ NA ☒

10. Were any sample containers received broken? Yes ☐ No ☒

11. Does paperwork match bottle labels? Yes ☒ No ☐

(Note discrepancies on chain of custody)

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? Yes ☒ No ☐

(If no, notify customer for authorization.)

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: **TMC 3/11/22**

Special Handling (if applicable)

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

Person Notified:

Date:

By Whom:

Via:

☐ eMail

☐ Phone

☐ Fax

☐ In Person

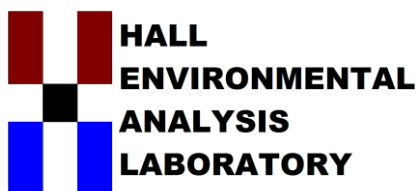
Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	-0.5	Good	Yes			



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

April 07, 2022

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

RE: BMG Landfarm VZ Soil Samples

OrderNo.: 2203674

Dear Elizabeth McNally:

Hall Environmental Analysis Laboratory received 10 sample(s) on 3/11/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2203674

Date Reported: 4/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #1 VZ S-1

Project: BMG Landfarm VZ Soil Samples

Collection Date: 3/9/2022 10:03:00 AM

Lab ID: 2203674-001

Matrix: SOIL

Received Date: 3/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	3/16/2022 4:08:11 PM	66179
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/16/2022 4:08:11 PM	66179
Surr: DNOP	88.4	51.1-141		%Rec	1	3/16/2022 4:08:11 PM	66179
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/14/2022 5:36:00 PM	66128
Surr: BFB	101	70-130		%Rec	1	3/14/2022 5:36:00 PM	66128
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	3/14/2022 5:36:00 PM	66128
Toluene	ND	0.050		mg/Kg	1	3/14/2022 5:36:00 PM	66128
Ethylbenzene	ND	0.050		mg/Kg	1	3/14/2022 5:36:00 PM	66128
Xylenes, Total	ND	0.10		mg/Kg	1	3/14/2022 5:36:00 PM	66128
Surr: 4-Bromofluorobenzene	85.4	70-130		%Rec	1	3/14/2022 5:36:00 PM	66128

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

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

Page 1 of 18

Analytical Report

Lab Order 2203674

Date Reported: 4/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #1 VZ Composite

Project: BMG Landfarm VZ Soil Samples

Collection Date: 3/9/2022 10:40:00 AM

Lab ID: 2203674-002

Matrix: SOIL

Received Date: 3/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Fluoride	1.5	1.5		mg/Kg	5	4/1/2022 9:55:12 AM	66562
Chloride	23	7.5		mg/Kg	5	4/1/2022 9:55:12 AM	66562
Nitrogen, Nitrate (As N)	6.9	1.5		mg/Kg	5	4/1/2022 9:55:12 AM	66562
Sulfate	13	7.5		mg/Kg	5	4/1/2022 9:55:12 AM	66562
EPA METHOD 6020A: METALS							Analyst: DBK
Arsenic	3.8	0.96		mg/Kg	10	3/29/2022 7:58:05 PM	66247
Selenium	1.3	0.96		mg/Kg	10	3/29/2022 7:58:05 PM	66247
EPA METHOD 7471B: MERCURY							Analyst: VP
Mercury	ND	0.031		mg/Kg	1	3/22/2022 2:38:13 PM	66316
EPA METHOD 6010B: SOIL METALS							Analyst: JLF
Barium	110	0.19		mg/Kg	2	3/18/2022 4:13:28 PM	66247
Cadmium	ND	0.19		mg/Kg	2	3/18/2022 4:13:28 PM	66247
Calcium	4000	48		mg/Kg	2	3/18/2022 4:13:28 PM	66247
Chromium	10	0.58		mg/Kg	2	3/18/2022 4:13:28 PM	66247
Copper	8.3	3.8		mg/Kg	2	3/18/2022 4:13:28 PM	66247
Iron	17000	1900		mg/Kg	200	3/18/2022 4:43:23 PM	66247
Lead	3.8	1.9		mg/Kg	2	3/18/2022 4:13:28 PM	66247
Magnesium	2400	48		mg/Kg	2	3/18/2022 4:13:28 PM	66247
Manganese	300	0.38		mg/Kg	2	3/18/2022 4:13:28 PM	66247
Potassium	2000	96		mg/Kg	2	3/18/2022 4:13:28 PM	66247
Silver	ND	0.96		mg/Kg	2	3/18/2022 4:13:28 PM	66247
Sodium	70	48		mg/Kg	2	3/21/2022 3:46:43 PM	66247
Uranium	ND	9.6		mg/Kg	2	3/18/2022 4:13:28 PM	66247
Zinc	34	4.8		mg/Kg	2	3/21/2022 3:46:43 PM	66247
SM4500H+B/EPA 9040C							Analyst: MRA
pH	8.00			pH Units	1	4/6/2022 3:00:00 PM	R87048

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

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

Analytical Report

Lab Order 2203674

Date Reported: 4/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #2 VZ S-1

Project: BMG Landfarm VZ Soil Samples

Collection Date: 3/9/2022 10:55:00 AM

Lab ID: 2203674-003

Matrix: SOIL

Received Date: 3/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/16/2022 4:19:03 PM	66179
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/16/2022 4:19:03 PM	66179
Surr: DNOP	97.2	51.1-141		%Rec	1	3/16/2022 4:19:03 PM	66179
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/14/2022 5:56:00 PM	66128
Surr: BFB	98.0	70-130		%Rec	1	3/14/2022 5:56:00 PM	66128
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/14/2022 5:56:00 PM	66128
Toluene	ND	0.048		mg/Kg	1	3/14/2022 5:56:00 PM	66128
Ethylbenzene	ND	0.048		mg/Kg	1	3/14/2022 5:56:00 PM	66128
Xylenes, Total	ND	0.097		mg/Kg	1	3/14/2022 5:56:00 PM	66128
Surr: 4-Bromofluorobenzene	85.6	70-130		%Rec	1	3/14/2022 5:56:00 PM	66128

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

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

Page 3 of 18

Analytical Report

Lab Order 2203674

Date Reported: 4/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #2 VZ Composite

Project: BMG Landfarm VZ Soil Samples

Collection Date: 3/9/2022 11:28:00 AM

Lab ID: 2203674-004

Matrix: SOIL

Received Date: 3/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Fluoride	ND	1.5		mg/Kg	5	4/1/2022 10:20:01 AM	66562
Chloride	23	7.5		mg/Kg	5	4/1/2022 10:20:01 AM	66562
Nitrogen, Nitrate (As N)	4.5	1.5		mg/Kg	5	4/1/2022 10:20:01 AM	66562
Sulfate	16	7.5		mg/Kg	5	4/1/2022 10:20:01 AM	66562
EPA METHOD 6020A: METALS							Analyst: DBK
Arsenic	5.1	0.99		mg/Kg	10	3/29/2022 8:02:38 PM	66247
Selenium	1.1	0.99		mg/Kg	10	3/29/2022 8:02:38 PM	66247
EPA METHOD 7471B: MERCURY							Analyst: VP
Mercury	ND	0.033		mg/Kg	1	3/22/2022 2:40:22 PM	66316
EPA METHOD 6010B: SOIL METALS							Analyst: JLF
Barium	120	0.20		mg/Kg	2	3/18/2022 4:15:28 PM	66247
Cadmium	ND	0.20		mg/Kg	2	3/18/2022 4:15:28 PM	66247
Calcium	4600	50		mg/Kg	2	3/18/2022 4:15:28 PM	66247
Chromium	6.6	0.60		mg/Kg	2	3/18/2022 4:15:28 PM	66247
Copper	5.0	4.0		mg/Kg	2	3/18/2022 4:15:28 PM	66247
Iron	15000	2000		mg/Kg	200	3/18/2022 4:45:17 PM	66247
Lead	3.9	2.0		mg/Kg	2	3/18/2022 4:15:28 PM	66247
Magnesium	1900	50		mg/Kg	2	3/18/2022 4:15:28 PM	66247
Manganese	290	0.40		mg/Kg	2	3/18/2022 4:15:28 PM	66247
Potassium	1300	99		mg/Kg	2	3/18/2022 4:15:28 PM	66247
Silver	ND	0.99		mg/Kg	2	3/18/2022 4:15:28 PM	66247
Sodium	51	50		mg/Kg	2	3/21/2022 3:48:48 PM	66247
Uranium	ND	9.9		mg/Kg	2	3/18/2022 4:15:28 PM	66247
Zinc	27	5.0		mg/Kg	2	3/21/2022 3:48:48 PM	66247
SM4500H+B/EPA 9040C							Analyst: MRA
pH	8.14			pH Units	1	4/6/2022 3:00:00 PM	R87048

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

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

Analytical Report

Lab Order 2203674

Date Reported: 4/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #3 VZ S-2

Project: BMG Landfarm VZ Soil Samples

Collection Date: 3/9/2022 11:50:00 AM

Lab ID: 2203674-005

Matrix: SOIL

Received Date: 3/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/16/2022 4:29:52 PM	66179
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/16/2022 4:29:52 PM	66179
Surr: DNOP	98.9	51.1-141		%Rec	1	3/16/2022 4:29:52 PM	66179
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/14/2022 6:15:00 PM	66128
Surr: BFB	99.7	70-130		%Rec	1	3/14/2022 6:15:00 PM	66128
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/14/2022 6:15:00 PM	66128
Toluene	ND	0.047		mg/Kg	1	3/14/2022 6:15:00 PM	66128
Ethylbenzene	ND	0.047		mg/Kg	1	3/14/2022 6:15:00 PM	66128
Xylenes, Total	ND	0.094		mg/Kg	1	3/14/2022 6:15:00 PM	66128
Surr: 4-Bromofluorobenzene	87.8	70-130		%Rec	1	3/14/2022 6:15:00 PM	66128

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

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

Page 5 of 18

Analytical Report

Lab Order 2203674

Date Reported: 4/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #3 VZ S-3

Project: BMG Landfarm VZ Soil Samples

Collection Date: 3/9/2022 12:01:00 PM

Lab ID: 2203674-006

Matrix: SOIL

Received Date: 3/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/16/2022 4:40:39 PM	66179
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/16/2022 4:40:39 PM	66179
Surr: DNOP	87.5	51.1-141		%Rec	1	3/16/2022 4:40:39 PM	66179
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/14/2022 6:35:00 PM	66128
Surr: BFB	105	70-130		%Rec	1	3/14/2022 6:35:00 PM	66128
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/14/2022 6:35:00 PM	66128
Toluene	ND	0.049		mg/Kg	1	3/14/2022 6:35:00 PM	66128
Ethylbenzene	ND	0.049		mg/Kg	1	3/14/2022 6:35:00 PM	66128
Xylenes, Total	ND	0.097		mg/Kg	1	3/14/2022 6:35:00 PM	66128
Surr: 4-Bromofluorobenzene	90.2	70-130		%Rec	1	3/14/2022 6:35:00 PM	66128

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

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

Page 6 of 18

Analytical Report

Lab Order 2203674

Date Reported: 4/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #3 VZ S-4

Project: BMG Landfarm VZ Soil Samples

Collection Date: 3/9/2022 12:12:00 PM

Lab ID: 2203674-007

Matrix: SOIL

Received Date: 3/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	3/16/2022 4:51:25 PM	66179
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	3/16/2022 4:51:25 PM	66179
Surr: DNOP	93.2	51.1-141		%Rec	1	3/16/2022 4:51:25 PM	66179
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/14/2022 6:55:00 PM	66128
Surr: BFB	103	70-130		%Rec	1	3/14/2022 6:55:00 PM	66128
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/14/2022 6:55:00 PM	66128
Toluene	ND	0.048		mg/Kg	1	3/14/2022 6:55:00 PM	66128
Ethylbenzene	ND	0.048		mg/Kg	1	3/14/2022 6:55:00 PM	66128
Xylenes, Total	ND	0.096		mg/Kg	1	3/14/2022 6:55:00 PM	66128
Surr: 4-Bromofluorobenzene	89.0	70-130		%Rec	1	3/14/2022 6:55:00 PM	66128

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

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

Page 7 of 18

Analytical Report

Lab Order 2203674

Date Reported: 4/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #3 VZ Composite

Project: BMG Landfarm VZ Soil Samples

Collection Date: 3/9/2022 12:15:00 PM

Lab ID: 2203674-008

Matrix: SOIL

Received Date: 3/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Fluoride	2.9	1.5		mg/Kg	5	4/1/2022 10:44:49 AM	66562
Chloride	11	7.5		mg/Kg	5	4/1/2022 10:44:49 AM	66562
Nitrogen, Nitrate (As N)	15	1.5		mg/Kg	5	4/1/2022 10:44:49 AM	66562
Sulfate	36	7.5		mg/Kg	5	4/1/2022 10:44:49 AM	66562
EPA METHOD 6020A: METALS							Analyst: DBK
Arsenic	4.2	0.48		mg/Kg	5	3/29/2022 8:07:10 PM	66247
Selenium	1.5	0.48		mg/Kg	5	3/29/2022 8:07:10 PM	66247
EPA METHOD 7471B: MERCURY							Analyst: VP
Mercury	ND	0.033		mg/Kg	1	3/22/2022 2:42:32 PM	66316
EPA METHOD 6010B: SOIL METALS							Analyst: JLF
Barium	110	0.19		mg/Kg	2	3/18/2022 4:25:12 PM	66247
Cadmium	ND	0.19		mg/Kg	2	3/18/2022 4:25:12 PM	66247
Calcium	5400	48		mg/Kg	2	3/18/2022 4:25:12 PM	66247
Chromium	12	0.58		mg/Kg	2	3/18/2022 4:25:12 PM	66247
Copper	9.8	3.9		mg/Kg	2	3/18/2022 4:25:12 PM	66247
Iron	23000	1900		mg/Kg	200	3/18/2022 4:47:11 PM	66247
Lead	11	1.9		mg/Kg	2	3/18/2022 4:25:12 PM	66247
Magnesium	2800	48		mg/Kg	2	3/18/2022 4:25:12 PM	66247
Manganese	330	0.39		mg/Kg	2	3/18/2022 4:25:12 PM	66247
Potassium	2100	97		mg/Kg	2	3/18/2022 4:25:12 PM	66247
Silver	ND	0.97		mg/Kg	2	3/18/2022 4:25:12 PM	66247
Sodium	93	48		mg/Kg	2	3/21/2022 3:50:44 PM	66247
Uranium	ND	9.7		mg/Kg	2	3/18/2022 4:25:12 PM	66247
Zinc	42	4.8		mg/Kg	2	3/21/2022 3:50:44 PM	66247
SM4500H+B/EPA 9040C							Analyst: MRA
pH	8.08			pH Units	1	4/6/2022 3:00:00 PM	R87048

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

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

Analytical Report

Lab Order 2203674

Date Reported: 4/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #4 VZ S-1

Project: BMG Landfarm VZ Soil Samples

Collection Date: 3/9/2022 12:27:00 PM

Lab ID: 2203674-009

Matrix: SOIL

Received Date: 3/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/16/2022 5:02:09 PM	66179
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/16/2022 5:02:09 PM	66179
Surr: DNOP	82.7	51.1-141		%Rec	1	3/16/2022 5:02:09 PM	66179
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/14/2022 7:14:00 PM	66128
Surr: BFB	105	70-130		%Rec	1	3/14/2022 7:14:00 PM	66128
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/14/2022 7:14:00 PM	66128
Toluene	ND	0.049		mg/Kg	1	3/14/2022 7:14:00 PM	66128
Ethylbenzene	ND	0.049		mg/Kg	1	3/14/2022 7:14:00 PM	66128
Xylenes, Total	ND	0.098		mg/Kg	1	3/14/2022 7:14:00 PM	66128
Surr: 4-Bromofluorobenzene	89.6	70-130		%Rec	1	3/14/2022 7:14:00 PM	66128

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

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

Page 9 of 18

Analytical Report

Lab Order 2203674

Date Reported: 4/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #4 VZ Composite

Project: BMG Landfarm VZ Soil Samples

Collection Date: 3/9/2022 12:45:00 PM

Lab ID: 2203674-010

Matrix: SOIL

Received Date: 3/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Fluoride	3.6	1.5		mg/Kg	5	4/1/2022 11:34:27 AM	66562
Chloride	ND	7.5		mg/Kg	5	4/1/2022 11:34:27 AM	66562
Nitrogen, Nitrate (As N)	3.6	1.5		mg/Kg	5	4/1/2022 11:34:27 AM	66562
Sulfate	11	7.5		mg/Kg	5	4/1/2022 11:34:27 AM	66562
EPA METHOD 6020A: METALS							Analyst: DBK
Arsenic	2.7	0.50		mg/Kg	5	3/29/2022 8:11:43 PM	66247
Selenium	1.2	0.50		mg/Kg	5	3/29/2022 8:11:43 PM	66247
EPA METHOD 7471B: MERCURY							Analyst: VP
Mercury	ND	0.033		mg/Kg	1	3/22/2022 2:44:42 PM	66316
EPA METHOD 6010B: SOIL METALS							Analyst: JLF
Barium	96	0.20		mg/Kg	2	3/18/2022 4:27:16 PM	66247
Cadmium	ND	0.20		mg/Kg	2	3/18/2022 4:27:16 PM	66247
Calcium	3300	50		mg/Kg	2	3/18/2022 4:27:16 PM	66247
Chromium	9.5	0.60		mg/Kg	2	3/18/2022 4:27:16 PM	66247
Copper	8.1	4.0		mg/Kg	2	3/18/2022 4:27:16 PM	66247
Iron	16000	2000		mg/Kg	200	3/18/2022 4:49:06 PM	66247
Lead	24	2.0		mg/Kg	2	3/18/2022 4:27:16 PM	66247
Magnesium	2000	50		mg/Kg	2	3/18/2022 4:27:16 PM	66247
Manganese	250	0.40		mg/Kg	2	3/18/2022 4:27:16 PM	66247
Potassium	1700	100		mg/Kg	2	3/18/2022 4:27:16 PM	66247
Silver	ND	1.0		mg/Kg	2	3/18/2022 4:27:16 PM	66247
Sodium	53	50		mg/Kg	2	3/21/2022 3:52:48 PM	66247
Uranium	ND	10		mg/Kg	2	3/18/2022 4:27:16 PM	66247
Zinc	27	5.0		mg/Kg	2	3/21/2022 3:52:48 PM	66247
SM4500H+B/EPA 9040C							Analyst: MRA
pH	8.31			pH Units	1	4/6/2022 3:00:00 PM	R87048

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

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



ANALYTICAL REPORT

March 25, 2022

Hall Environmental Analysis Laboratory

Sample Delivery Group: L1471292

Samples Received: 03/15/2022

Project Number:

Description:

Report To: Andy Freeman
4901 Hawkins NE
Albuquerque, NM 87109

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Entire Report Reviewed By:

A handwritten signature in blue ink that reads "John V. Hawkins".

John Hawkins
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	² Tc
Cn: Case Narrative	4	
Sr: Sample Results	5	³ Ss
2203674-002B CELL #1 VZ COMPOSITE L1471292-01	5	
2203674-004B CELL #2 VZ COMPOSITE L1471292-02	6	⁴ Cn
2203674-008B CELL #3 VZ COMPOSITE L1471292-03	7	⁵ Sr
2203674-010B CELL #4 VZ COMPOSITE L1471292-04	8	
Qc: Quality Control Summary	9	⁶ Qc
Wet Chemistry by Method 9012B	9	
Wet Chemistry by Method 9066	10	⁷ Gl
Gl: Glossary of Terms	11	⁸ Al
Al: Accreditations & Locations	12	
Sc: Sample Chain of Custody	13	⁹ Sc

2203674-002B CELL #1 VZ COMPOSITE L1471292-01 Solid

Collected by
Collected date/time
Received date/time

03/09/22 10:40
03/15/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9012B	WG1832557	1	03/17/22 00:50	03/17/22 17:56	LDT	Mt. Juliet, TN
Wet Chemistry by Method 9066	WG1835525	1	03/23/22 03:01	03/24/22 23:28	CAT	Mt. Juliet, TN

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

2203674-004B CELL #2 VZ COMPOSITE L1471292-02 Solid

Collected by
Collected date/time
Received date/time

03/09/22 11:28
03/15/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9012B	WG1832557	1	03/17/22 00:50	03/17/22 17:59	LDT	Mt. Juliet, TN
Wet Chemistry by Method 9066	WG1835525	1	03/23/22 03:01	03/24/22 23:29	CAT	Mt. Juliet, TN

2203674-008B CELL #3 VZ COMPOSITE L1471292-03 Solid

Collected by
Collected date/time
Received date/time

03/09/22 12:15
03/15/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9012B	WG1832557	1	03/17/22 00:50	03/17/22 18:00	LDT	Mt. Juliet, TN
Wet Chemistry by Method 9066	WG1835525	1	03/23/22 03:01	03/24/22 23:30	CAT	Mt. Juliet, TN

2203674-010B CELL #4 VZ COMPOSITE L1471292-04 Solid

Collected by
Collected date/time
Received date/time

03/09/22 12:45
03/15/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9012B	WG1832557	1	03/17/22 00:50	03/17/22 18:04	LDT	Mt. Juliet, TN
Wet Chemistry by Method 9066	WG1835525	1	03/23/22 03:01	03/24/22 23:30	CAT	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



John Hawkins
Project Manager

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Collected date/time: 03/09/22 10:40

L1471292

Wet Chemistry by Method 9012B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Cyanide	ND		250	1	03/17/2022 17:56	WG1832557

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Wet Chemistry by Method 9066

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Total Phenol by 4AAP	ND		670	1	03/24/2022 23:28	WG1835525

Collected date/time: 03/09/22 11:28

L1471292

Wet Chemistry by Method 9012B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Cyanide	ND		250	1	03/17/2022 17:59	WG1832557

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Wet Chemistry by Method 9066

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Total Phenol by 4AAP	ND		670	1	03/24/2022 23:29	WG1835525

Collected date/time: 03/09/22 12:15

L1471292

Wet Chemistry by Method 9012B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Cyanide	ND		250	1	03/17/2022 18:00	WG1832557

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Wet Chemistry by Method 9066

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Total Phenol by 4AAP	ND		670	1	03/24/2022 23:30	WG1835525

Collected date/time: 03/09/22 12:45

L1471292

Wet Chemistry by Method 9012B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Cyanide	ND		250	1	03/17/2022 18:04	WG1832557

¹ Cp

² Tc

Wet Chemistry by Method 9066

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Total Phenol by 4AAP	ND		670	1	03/24/2022 23:30	WG1835525

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Wet Chemistry by Method 9012B

L1471292-01,02,03,04

Method Blank (MB)

(MB) R3771148-1 03/17/22 17:47

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/kg		ug/kg	ug/kg
Cyanide	U		73.3	250

L1470523-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1470523-01 03/17/22 17:51 • (DUP) R3771148-3 03/17/22 17:52

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/kg	ug/kg		%		%
Cyanide	ND	ND	1	0.000		20

L1471292-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1471292-03 03/17/22 18:00 • (DUP) R3771148-6 03/17/22 18:01

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/kg	ug/kg		%		%
Cyanide	ND	ND	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3771148-2 03/17/22 17:48

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/kg	ug/kg	%	%	
Cyanide	2500	2800	112	85.0-115	

L1470523-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1470523-01 03/17/22 17:51 • (MS) R3771148-4 03/17/22 17:53 • (MSD) R3771148-5 03/17/22 17:54

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/kg	ug/kg	ug/kg	ug/kg	%	%		%			%	%
Cyanide	1670	ND	362	583	21.7	35.0	1	75.0-125	J6	J3 J6	46.7	20

L1471292-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1471292-03 03/17/22 18:00 • (MS) R3771148-7 03/17/22 18:02 • (MSD) R3771148-8 03/17/22 18:03

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/kg	ug/kg	ug/kg	ug/kg	%	%		%			%	%
Cyanide	1670	ND	1710	1680	102	101	1	75.0-125			1.30	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3773813-1 03/24/22 23:25

Analyte	MB Result ug/kg	MB Qualifier	MB MDL ug/kg	MB RDL ug/kg
Total Phenol by 4AAP	U		220	670

L1472880-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1472880-01 03/24/22 23:44 • (DUP) R3773813-7 03/24/22 23:45

Analyte	Original Result ug/kg	DUP Result ug/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Phenol by 4AAP	ND	ND	3	0.000		20

Sample Narrative:

OS: Dilution due to matrix.

Laboratory Control Sample (LCS)

(LCS) R3773813-2 03/24/22 23:26

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Phenol by 4AAP	8330	8620	103	72.1-129	

L1472880-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1472880-01 03/24/22 23:44 • (MS) R3773813-4 03/24/22 23:34 • (MSD) R3773813-5 03/24/22 23:35

Analyte	Spike Amount ug/kg	Original Result ug/kg	MS Result ug/kg	MSD Result ug/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Total Phenol by 4AAP	16700	ND	11700	15100	70.1	90.6	3.03	15.4-151		J3	25.4	20

Sample Narrative:

OS: Dilution due to matrix.

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

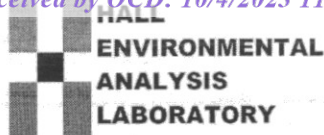
Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



CHAIN OF CUSTODY RECORD

PAGE: 1 OF: 1

4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975
FAX: 505-345-4107

Website: clients.hallenvironmental.com

SUB CONTRACTOR: Pace TN		COMPANY: PACE TN		PHONE: (800) 767-5859		FAX: (615) 758-5859	
ADDRESS: 12065 Lebanon Rd				ACCOUNT #:		EMAIL:	
CITY, STATE, ZIP: Mt. Juliet, TN 37122							
ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
1	2203674-002B	Cell #1 VZ Composite	4OZGU	Soil	3/9/2022 10:40:00 AM	2	Total Cyanide, Ra 226/228, Total Phenolics by 9066 -01
2	2203674-004B	Cell #2 VZ Composite	4OZGU	Soil	3/9/2022 11:28:00 AM	2	Total Cyanide, Ra 226/228, Total Phenolics by 9066 -02
3	2203674-008B	Cell #3 VZ Composite	4OZGU	Soil	3/9/2022 12:15:00 PM	2	Total Cyanide, Ra 226/228, Total Phenolics by 9066 -03
4	2203674-010B	Cell #4 VZ Composite	4OZGU	Soil	3/9/2022 12:45:00 PM	2	Total Cyanide, Ra 226/228, Total Phenolics by 9066 -04

B160

Sample Receipt Checklist

COC Seal Present/Intact: ☒ Y ☐ N If Applicable

COC Signed/Accurate: ☒ Y ☐ N VOA Zero Headspace: ☐ Y ☐ N

Bottles arrive intact: ☒ Y ☐ N Pres. Correct/Check: ☐ Y ☐ N

Correct bottles used: ☒ Y ☐ N

Sufficient volume sent: ☒ Y ☐ N

RAD Screen <0.5 mR/hr: ☒ Y ☐ N

1.7+0 = 1.7

Cnt = 8
TB = 0

SPECIAL INSTRUCTIONS / COMMENTS:

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you.

Relinquished By: SL	Date: 3/11/2022	Time: 12:05 PM	Received By: T. Robertson	Date: 3/15/22	Time: 9:30	REPORT TRANSMITTAL DESIRED:	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	FOR LAB USE ONLY	
TAT: Standard ☒ RUSH Next BD ☐ 2nd BD ☐ 3rd BD ☐						Temp of samples _____ °C Attempt to Cool? _____	
						Comments: _____	



ANALYTICAL REPORT

April 05, 2022

Hall Environmental Analysis Laboratory

Sample Delivery Group: L1471295

Samples Received: 03/15/2022

Project Number:

Description:

Report To: Andy Freeman
4901 Hawkins NE
Albuquerque, NM 87109

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Entire Report Reviewed By:

A blue ink signature of Jason Romer, written in a cursive style.

Jason Romer
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	² Tc
Cn: Case Narrative	4	
Sr: Sample Results	5	³ Ss
2203674-002B CELL #1 VZ COMPOSITE L1471295-01	5	
2203674-004B CELL #2 VZ COMPOSITE L1471295-02	6	⁴ Cn
2203674-008B CELL #3 VZ COMPOSITE L1471295-03	7	⁵ Sr
2203674-010B CELL #4 VZ COMPOSITE L1471295-04	8	
Qc: Quality Control Summary	9	⁶ Qc
Radiochemistry by Method 9320	9	
Radiochemistry by Method SM7500Ra B M	10	⁷ Gl
Gl: Glossary of Terms	11	⁸ Al
Al: Accreditations & Locations	12	
Sc: Sample Chain of Custody	13	⁹ Sc

2203674-002B CELL #1 VZ COMPOSITE L1471295-01 Solids and Chemical Materials

Collected by
Collected date/time
Received date/time

03/09/22 10:40 03/15/22 09:30

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 9320	WG1833152	1	03/17/22 14:17	03/30/22 14:50	JMR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1828447	1	03/18/22 13:00	03/22/22 13:36	RGT	Mt. Juliet, TN

2203674-004B CELL #2 VZ COMPOSITE L1471295-02 Solids and Chemical Materials

Collected by
Collected date/time
Received date/time

03/09/22 11:28 03/15/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 9320	WG1833152	1	03/17/22 14:17	03/30/22 14:50	JMR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1828447	1	03/18/22 13:00	03/22/22 13:36	RGT	Mt. Juliet, TN

2203674-008B CELL #3 VZ COMPOSITE L1471295-03 Solids and Chemical Materials

Collected by
Collected date/time
Received date/time

03/09/22 12:15 03/15/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 9320	WG1833152	1	03/17/22 14:17	03/30/22 14:50	JMR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1828447	1	03/18/22 13:00	03/22/22 13:36	RGT	Mt. Juliet, TN

2203674-010B CELL #4 VZ COMPOSITE L1471295-04 Solids and Chemical Materials

Collected by
Collected date/time
Received date/time

03/09/22 12:45 03/15/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 9320	WG1833152	1	03/17/22 14:17	03/30/22 11:35	JMR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1828447	1	03/18/22 13:00	03/22/22 13:36	RGT	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Jason Romer
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ Gl
- ⁸ Al
- ⁹ Sc

Collected date/time: 03/09/22 10:40

Radiochemistry by Method 9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/g		+ / -	pCi/g	date / time	
RADIUM-228	0.462		0.198	0.362	03/30/2022 14:50	WG1833152
(T) Barium	98.7			62.0-143	03/30/2022 14:50	WG1833152
(T) Yttrium	100			79.0-136	03/30/2022 14:50	WG1833152

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/g		+ / -	pCi/g	date / time	
RADIUM-226	0.416		0.139	0.0628	03/22/2022 13:36	WG1828447
(T) Barium-133	91.7			30.0-110	03/22/2022 13:36	WG1828447

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Collected date/time: 03/09/22 11:28

L1471295

Radiochemistry by Method 9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/g		+ / -	pCi/g	date / time	
RADIUM-228	1.05		0.194	0.331	03/30/2022 14:50	WG1833152
(T) Barium	106			62.0-143	03/30/2022 14:50	WG1833152
(T) Yttrium	98.8			79.0-136	03/30/2022 14:50	WG1833152

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/g		+ / -	pCi/g	date / time	
RADIUM-226	0.346		0.123	0.0684	03/22/2022 13:36	WG1828447
(T) Barium-133	91.2			30.0-110	03/22/2022 13:36	WG1828447

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Collected date/time: 03/09/22 12:15

L1471295

Radiochemistry by Method 9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/g		+ / -	pCi/g	date / time	
RADIUM-228	1.05		0.242	0.422	03/30/2022 14:50	WG1833152
(T) Barium	105			62.0-143	03/30/2022 14:50	WG1833152
(T) Yttrium	99.2			79.0-136	03/30/2022 14:50	WG1833152

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/g		+ / -	pCi/g	date / time	
RADIUM-226	0.504		0.138	0.0425	03/22/2022 13:36	WG1828447
(T) Barium-133	94.4			30.0-110	03/22/2022 13:36	WG1828447

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Collected date/time: 03/09/22 12:45

L1471295

Radiochemistry by Method 9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/g		+ / -	pCi/g	date / time	
RADIUM-228	0.464		0.199	0.371	03/30/2022 11:35	WG1833152
(T) Barium	101			62.0-143	03/30/2022 11:35	WG1833152
(T) Yttrium	96.0			79.0-136	03/30/2022 11:35	WG1833152

¹Cp²Tc³Ss

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/g		+ / -	pCi/g	date / time	
RADIUM-226	0.478		0.141	0.0528	03/22/2022 13:36	WG1828447
(T) Barium-133	94.5			30.0-110	03/22/2022 13:36	WG1828447

⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Radiochemistry by Method 9320

L1471295-01,02,03,04

Method Blank (MB)

(MB) R3777799-1 03/30/22 14:50

Analyte	MB Result pCi/g	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/g
Radium-228	0.312	⌵	0.187	0.347
(T) Barium	99.9		99.9	
(T) Yttrium	95.1		95.1	

L1470002-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1470002-01 03/30/22 14:50 • (DUP) R3777799-4 03/30/22 14:50

Analyte	Original Result pCi/g	Original Uncertainty + / -	Original MDA pCi/g	DUP Result pCi/g	DUP Uncertainty + / -	DUP MDA pCi/g	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	-0.0338	0.222	0.425	0.371	0.191	0.425	1	200	1.38		20	3
(T) Barium	107			98.7	98.7							
(T) Yttrium	96.8			102	102							

Laboratory Control Sample (LCS)

(LCS) R3777799-2 03/30/22 14:50

Analyte	Spike Amount pCi/g	LCS Result pCi/g	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.26	105	80.0-120	
(T) Barium			106		
(T) Yttrium			104		

L1470002-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1470002-01 03/30/22 14:50 • (MS) R3777799-3 03/30/22 14:50

Analyte	Spike Amount pCi/g	Original Result pCi/g	MS Result pCi/g	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Radium-228	4.98	-0.0338	6.02	121	1	70.0-130	
(T) Barium		107		107			
(T) Yttrium		96.8		95.8			

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3773135-1 03/22/22 13:36

Analyte	MB Result pCi/g	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/g
Radium-226	0.0484	⌵	0.0591	0.0811
(T) Barium-133	99.4		99.4	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1472011-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1472011-03 03/22/22 13:36 • (DUP) R3773135-5 03/22/22 13:36

Analyte	Original Result pCi/g	Original Uncertainty + / -	Original MDA pCi/g	DUP Result pCi/g	DUP Uncertainty + / -	DUP MDA pCi/g	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	0.260	0.111	0.0749	0.297	0.117	0.0749	1	13.5	0.233		20	3
(T) Barium-133	91.4			94.9	94.9							

Laboratory Control Sample (LCS)

(LCS) R3773135-2 03/22/22 13:36

Analyte	Spike Amount pCi/g	LCS Result pCi/g	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	3.79	4.00	105	65.0-132	
(T) Barium-133			94.8		

L1464973-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1464973-01 03/22/22 13:36 • (MS) R3773135-3 03/22/22 13:36 • (MSD) R3773135-4 03/22/22 13:36

Analyte	Spike Amount pCi/g	Original Result pCi/g	MS Result pCi/g	MSD Result pCi/g	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	4.96	1.03	6.25	6.36	105	107	1	60.0-140			1.71		20
(T) Barium-133		94.0			92.1	88.9							

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDA	Minimum Detectable Activity.
Rec.	Recovery.
RER	Replicate Error Ratio.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
---	---

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 AI

9 Sc

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

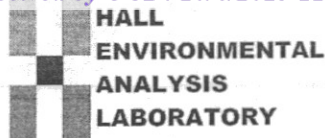
Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



CHAIN OF CUSTODY RECORD

PAGE: 1 OF: 1

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

SUB CONTRACTOR: Pace TN		COMPANY: PACE TN		PHONE: (800) 767-5859		FAX: (615) 758-5859	
ADDRESS: 12065 Lebanon Rd				ACCOUNT #:		EMAIL:	
CITY, STATE, ZIP: Mt. Juliet, TN 37122							
ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
1	2203674-002B	Cell #1 VZ Composite	4OZGU	Soil	3/9/2022 10:40:00 AM	2	Total Cyanide, Ra 226/228, Total Phenolics by 9066
2	2203674-004B	Cell #2 VZ Composite	4OZGU	Soil	3/9/2022 11:28:00 AM	2	Total Cyanide, Ra 226/228, Total Phenolics by 9066
3	2203674-008B	Cell #3 VZ Composite	4OZGU	Soil	3/9/2022 12:15:00 PM	2	Total Cyanide, Ra 226/228, Total Phenolics by 9066
4	2203674-010B	Cell #4 VZ Composite	4OZGU	Soil	3/9/2022 12:45:00 PM	2	Total Cyanide, Ra 226/228, Total Phenolics by 9066

LH471295

B160

Sample Receipt Checklist

COC Seal Present/Intact: ☒ Y ☒ N If Applicable

COC Signed/Accurate: ☒ Y ☒ N VOA Zero Headspace: ☐ Y ☐ N

Bottles arrive intact: ☒ Y ☒ N Pres. Correct/Check: ☐ Y ☐ N

Correct bottles used: ☒ Y ☒ N

Sufficient volume sent: ☒ Y ☒ N

RAD Screen <0.5 mR/hr: ☒ Y ☒ N

1.7+0 = 1.7

 CNT=8
 TB=0

SPECIAL INSTRUCTIONS / COMMENTS:

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you.

5528 5947 9308

Relinquished By: SAL	Date: 3/11/2022	Time: 12:05 PM	Received By: J. Robertson	Date: 3/11/22	Time: 930	REPORT TRANSMITTAL DESIRED:	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	FOR LAB USE ONLY	
TAT: Standard ☒ RUSH Next BD ☐ 2nd BD ☐ 3rd BD ☐						Temp of samples _____ °C Attempt to Cool? _____	
						Comments: _____	

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

WO#: 2203674

07-Apr-22

Client: Animas Environmental Services
Project: BMG Landfarm VZ Soil Samples

Sample ID: MB-66562	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 66562	RunNo: 86923								
Prep Date: 4/1/2022	Analysis Date: 4/1/2022	SeqNo: 3072115	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.30								
Chloride	ND	1.5								
Nitrogen, Nitrate (As N)	ND	0.30								
Sulfate	ND	1.5								

Sample ID: LCS-66562	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 66562	RunNo: 86923								
Prep Date: 4/1/2022	Analysis Date: 4/1/2022	SeqNo: 3072116	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	1.5	0.30	1.500	0	99.4	90	110			
Chloride	14	1.5	15.00	0	91.2	90	110			
Nitrogen, Nitrate (As N)	7.3	0.30	7.500	0	97.8	90	110			
Sulfate	27	1.5	30.00	0	91.1	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2203674

07-Apr-22

Client: Animas Environmental Services

Project: BMG Landfarm VZ Soil Samples

Sample ID: MB-66247	SampType: MBLK	TestCode: EPA Method 6020A: Metals									
Client ID: PBS	Batch ID: 66247	RunNo: 86751									
Prep Date: 3/17/2022	Analysis Date: 3/25/2022	SeqNo: 3063428 Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Arsenic	ND	0.20									
Selenium	ND	0.20									

Sample ID: MSLCSLL-66247	SampType: LCSLL	TestCode: EPA Method 6020A: Metals									
Client ID: BatchQC	Batch ID: 66247	RunNo: 86751									
Prep Date: 3/17/2022	Analysis Date: 3/25/2022	SeqNo: 3063429 Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Arsenic	ND	0.20	0.1000	0	88.4	70	130				
Selenium	ND	0.20	0.1000	0	123	70	130				

Sample ID: MSLCS-66247	SampType: LCS	TestCode: EPA Method 6020A: Metals									
Client ID: LCSS	Batch ID: 66247	RunNo: 86751									
Prep Date: 3/17/2022	Analysis Date: 3/25/2022	SeqNo: 3063430 Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Arsenic	4.3	0.20	5.000	0	86.9	80	120				
Selenium	4.3	0.20	5.000	0	85.5	80	120				

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 12 of 18

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

WO#: 2203674

07-Apr-22

Client: Animas Environmental Services
Project: BMG Landfarm VZ Soil Samples

Sample ID: LCS-66179	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 66179			RunNo: 86505						
Prep Date: 3/15/2022	Analysis Date: 3/16/2022			SeqNo: 3053943		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.4	68.9	135			
Surr: DNOP	4.7		5.000		93.7	51.1	141			

Sample ID: MB-66179	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 66179			RunNo: 86505						
Prep Date: 3/15/2022	Analysis Date: 3/16/2022			SeqNo: 3053945		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.0		10.00		90.4	51.1	141			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2203674

07-Apr-22

Client: Animas Environmental Services
Project: BMG Landfarm VZ Soil Samples

Sample ID: lcs-66128	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 66128	RunNo: 86450								
Prep Date: 3/11/2022	Analysis Date: 3/14/2022	SeqNo: 3050439	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	111	78.6	131			
Surr: BFB	2200		1000		225	70	130			S

Sample ID: mb-66128	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 66128	RunNo: 86450								
Prep Date: 3/11/2022	Analysis Date: 3/14/2022	SeqNo: 3050440	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		102	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 14 of 18

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

WO#: 2203674

07-Apr-22

Client: Animas Environmental Services
Project: BMG Landfarm VZ Soil Samples

Sample ID: lcs-66128	SampType: LCS				TestCode: EPA Method 8021B: Volatiles					
Client ID: LCSS	Batch ID: 66128				RunNo: 86450					
Prep Date: 3/11/2022	Analysis Date: 3/14/2022				SeqNo: 3050472	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	96.7	80	120			
Toluene	0.98	0.050	1.000	0	98.1	80	120			
Ethylbenzene	0.99	0.050	1.000	0	98.8	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.5	80	120			
Surr: 4-Bromofluorobenzene	0.90		1.000		89.6	70	130			

Sample ID: mb-66128	SampType: MBLK				TestCode: EPA Method 8021B: Volatiles					
Client ID: PBS	Batch ID: 66128				RunNo: 86450					
Prep Date: 3/11/2022	Analysis Date: 3/14/2022				SeqNo: 3050473	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.88		1.000		87.6	70	130			

Qualifiers:

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

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

WO#: 2203674

07-Apr-22

Client: Animas Environmental Services
Project: BMG Landfarm VZ Soil Samples

Sample ID: LCS-66316	SampType: LCS	TestCode: EPA Method 7471B: Mercury								
Client ID: LCSS	Batch ID: 66316	RunNo: 86649								
Prep Date: 3/22/2022	Analysis Date: 3/22/2022	SeqNo: 3058936	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.17	0.033	0.1667	0	104	80	120			

Sample ID: MB-66316	SampType: MBLK	TestCode: EPA Method 7471B: Mercury								
Client ID: PBS	Batch ID: 66316	RunNo: 86649								
Prep Date: 3/22/2022	Analysis Date: 3/22/2022	SeqNo: 3058946	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.033								

Sample ID: LCSLL-66316	SampType: LCSLL	TestCode: EPA Method 7471B: Mercury								
Client ID: BatchQC	Batch ID: 66316	RunNo: 86649								
Prep Date: 3/22/2022	Analysis Date: 3/22/2022	SeqNo: 3058947	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.033	0.006660	0	128	70	130			

Qualifiers:

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

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

WO#: 2203674

07-Apr-22

Client: Animas Environmental Services
Project: BMG Landfarm VZ Soil Samples

Sample ID: MB-66247	SampType: MBLK	TestCode: EPA Method 6010B: Soil Metals								
Client ID: PBS	Batch ID: 66247	RunNo: 86584								
Prep Date: 3/17/2022	Analysis Date: 3/18/2022	SeqNo: 3056055 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.10								
Cadmium	ND	0.10								
Calcium	ND	25								
Chromium	ND	0.30								
Copper	ND	2.0								
Iron	ND	10								
Lead	ND	1.0								
Magnesium	ND	25								
Manganese	ND	0.20								
Potassium	ND	50								
Silver	ND	0.50								
Uranium	ND	5.0								
Zinc	ND	2.5								

Sample ID: LCS-66247	SampType: LCS	TestCode: EPA Method 6010B: Soil Metals								
Client ID: LCSS	Batch ID: 66247	RunNo: 86584								
Prep Date: 3/17/2022	Analysis Date: 3/18/2022	SeqNo: 3056057 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	24	0.10	25.00	0	95.0	80	120			
Cadmium	24	0.10	25.00	0	96.8	80	120			
Calcium	2300	25	2500	0	93.0	80	120			
Chromium	24	0.30	25.00	0	96.1	80	120			
Copper	27	2.0	25.00	0	107	80	120			
Iron	26	10	25.00	0	104	80	120			
Lead	23	1.0	25.00	0	90.1	80	120			
Magnesium	2500	25	2500	0	98.3	80	120			
Manganese	24	0.20	25.00	0	95.8	80	120			
Potassium	2500	50	2500	0	98.7	80	120			
Silver	4.7	0.50	5.000	0	94.5	80	120			
Uranium	27	5.0	25.00	0	106	80	120			
Zinc	22	2.5	25.00	0	87.8	80	120			

Sample ID: MB-66247	SampType: MBLK	TestCode: EPA Method 6010B: Soil Metals								
Client ID: PBS	Batch ID: 66247	RunNo: 86632								
Prep Date: 3/17/2022	Analysis Date: 3/21/2022	SeqNo: 3058381 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	ND	25								

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2203674

07-Apr-22

Client: Animas Environmental Services

Project: BMG Landfarm VZ Soil Samples

Sample ID: LCS-66247		SampType: LCS			TestCode: EPA Method 6010B: Soil Metals					
Client ID: LCSS		Batch ID: 66247			RunNo: 86632					
Prep Date: 3/17/2022		Analysis Date: 3/21/2022			SeqNo: 3058384		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	2200	25	2500	0	87.9	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 Quantitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

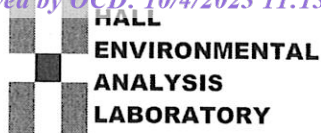
E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 18 of 18



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: 2203674

RcptNo: 1

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

Completed By: Sean Livingston 3/11/2022 9:52:16 AM

Reviewed By: *TL*

3/11/22

ID-2

Seal Log

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☐ No ☒ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐ Not frozen.
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: *TL* 3/11/22

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	-0.5	Good				

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.

C. The standards are not intended as maximum ranges and concentrations for use, and nothing herein contained shall be construed as limiting the use of waters containing higher ranges and concentrations. [2-18-77; 20.6.2.3101 NMAC - Rn. 20 NMAC 6.2.III.3101, 1-15-01]

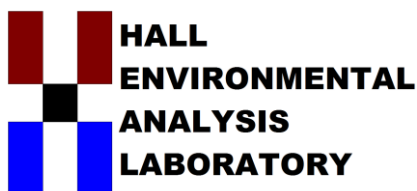
20.6.2.3102: [RESERVED]

[12-1-95; 20.6.2.3102 NMAC - Rn. 20 NMAC 6.2.III.3102, 1-15-01]

20.6.2.3103 STANDARDS FOR GROUND WATER OF 10,000 mg/l TDS CONCENTRATION OR LESS: The following standards are the allowable pH range and the maximum allowable concentration in ground water for the contaminants specified unless the existing condition exceeds the standard or unless otherwise provided in Subsection D of Section 20.6.2.3109 NMAC. Regardless of whether there is one contaminant or more than one contaminant present in ground water, when an existing pH or concentration of any water contaminant exceeds the standard specified in Subsection A, B, or C of this section, the existing pH or concentration shall be the allowable limit, provided that the discharge at such concentrations will not result in concentrations at any place of withdrawal for present or reasonably foreseeable future use in excess of the standards of this section. These standards shall apply to the dissolved portion of the contaminants specified with a definition of dissolved being that given in the publication "*methods for chemical analysis of water and waste of the U.S. environmental protection agency*," with the exception that standards for mercury, organic compounds and non-aqueous phase liquids shall apply to the total unfiltered concentrations of the contaminants.

A. Human Health Standards-Ground water shall meet the standards of Subsection A and B of this section unless otherwise provided. If more than one water contaminant affecting human health is present, the toxic pollutant criteria as set forth in the definition of toxic pollutant in Section 20.6.2.1101 NMAC for the combination of contaminants, or the Human Health Standard of Subsection A of Section 20.6.2.3103 NMAC for each contaminant shall apply, whichever is more stringent. Non-aqueous phase liquid shall not be present floating atop of or immersed within ground water, as can be reasonably measured.

• (1) Arsenic (As).....	0.1 mg/l
• (2) Barium (Ba).....	1.0 mg/l
• (3) Cadmium (Cd).....	0.01 mg/l
• (4) Chromium (Cr).....	0.05 mg/l
(5) Cyanide (CN).....	0.2 mg/l
(6) Fluoride (F).....	1.6 mg/l
• (7) Lead (Pb).....	0.05 mg/l
(8) Total Mercury (Hg).....	0.002 mg/l
(9) Nitrate (NO ₃ as N).....	10.0 mg/l
• (10) Selenium (Se).....	0.05 mg/l
• (11) Silver (Ag).....	0.05 mg/l
• (12) Uranium (U).....	0.03 mg/l
(13) Radioactivity: Combined Radium-226 & Radium-228.....	30 pCi/l
(14) Benzene.....	0.01 mg/l
(15) Polychlorinated biphenyls (PCB's).....	0.001 mg/l
(16) Toluene.....	0.75 mg/l
(17) Carbon Tetrachloride.....	0.01 mg/l
(18) 1,2-dichloroethane (EDC)	0.01 mg/l
(19) 1,1-dichloroethylene (1,1-DCE)	0.005 mg/l
(20) 1,1,2,2-tetrachloroethylene (PCE)	0.02 mg/l
(21) 1,1,2-trichloroethylene (TCE)	0.1 mg/l
(22) ethylbenzene.....	0.75 mg/l
(23) total xylenes.....	0.62 mg/l
(24) methylene chloride.....	0.1 mg/l
(25) chloroform.....	0.1 mg/l
(26) 1,1-dichloroethane.....	0.025 mg/l
(27) ethylene dibromide (EDB)	0.0001 mg/l
(28) 1,1,1-trichloroethane.....	0.06 mg/l
(29) 1,1,2-trichloroethane.....	0.01 mg/l
(30) 1,1,2,2-tetrachloroethane.....	0.01 mg/l
(31) vinyl chloride.....	0.001 mg/l



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

July 20, 2022

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

RE: BMG Landfarm TZ Soil Samples

OrderNo.: 2206A08

Dear Elizabeth McNally:

Hall Environmental Analysis Laboratory received 2 sample(s) on 6/18/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2206A08

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #2 TZ CS-1

Project: BMG Landfarm TZ Soil Samples

Collection Date: 6/15/2022 11:51:00 AM

Lab ID: 2206A08-001

Matrix: SOIL

Received Date: 6/18/2022 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082A: PCB'S						Analyst: TOM
Aroclor 1016	ND	0.023		mg/Kg	1	6/28/2022 8:42:46 PM
Aroclor 1221	ND	0.023		mg/Kg	1	6/28/2022 8:42:46 PM
Aroclor 1232	ND	0.023		mg/Kg	1	6/28/2022 8:42:46 PM
Aroclor 1242	ND	0.023		mg/Kg	1	6/28/2022 8:42:46 PM
Aroclor 1248	ND	0.023		mg/Kg	1	6/28/2022 8:42:46 PM
Aroclor 1254	ND	0.023		mg/Kg	1	6/28/2022 8:42:46 PM
Aroclor 1260	ND	0.023		mg/Kg	1	6/28/2022 8:42:46 PM
Surr: Decachlorobiphenyl	60.0	47.2-115		%Rec	1	6/28/2022 8:42:46 PM
Surr: Tetrachloro-m-xylene	74.8	15-110		%Rec	1	6/28/2022 8:42:46 PM
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: ED
Diesel Range Organics (DRO)	270	15		mg/Kg	1	6/28/2022 7:10:43 PM
Motor Oil Range Organics (MRO)	380	49		mg/Kg	1	6/28/2022 7:10:43 PM
Surr: DNOP	112	51.1-141		%Rec	1	6/28/2022 7:10:43 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/24/2022 2:08:37 AM
Surr: BFB	93.6	37.7-212		%Rec	1	6/24/2022 2:08:37 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Fluoride	2.8	1.5		mg/Kg	5	6/23/2022 11:14:11 PM
Chloride	33	7.5		mg/Kg	5	6/23/2022 11:14:11 PM
Nitrogen, Nitrite (As N)	ND	1.5		mg/Kg	5	6/23/2022 11:14:11 PM
Nitrogen, Nitrate (As N)	ND	1.5		mg/Kg	5	6/23/2022 11:14:11 PM
Sulfate	240	7.5		mg/Kg	5	6/23/2022 11:14:11 PM
EPA METHOD 6020A: TOTAL METALS						Analyst: DBK
Antimony	ND	0.49		mg/Kg	5	6/30/2022 4:01:35 PM
Arsenic	4.0	0.49		mg/Kg	5	6/24/2022 8:53:47 PM
Lead	15	0.49		mg/Kg	5	6/24/2022 8:53:47 PM
Selenium	1.1	0.49		mg/Kg	5	6/29/2022 9:01:26 PM
Thallium	ND	0.49		mg/Kg	5	6/24/2022 8:53:47 PM
Uranium	0.71	0.49		mg/Kg	5	6/29/2022 9:01:26 PM
EPA METHOD 7471B: MERCURY						Analyst: VP
Mercury	0.032	0.032		mg/Kg	1	6/22/2022 2:08:55 PM
EPA METHOD 6010B: SOIL METALS						Analyst: JRR
Barium	680	0.49		mg/Kg	5	6/24/2022 10:02:45 AM
Beryllium	0.74	0.29		mg/Kg	2	6/24/2022 9:24:31 AM
Cadmium	ND	0.19		mg/Kg	2	6/24/2022 9:24:31 AM
Chromium	11	0.58		mg/Kg	2	6/24/2022 9:24:31 AM

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

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

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

Analytical Report

Lab Order 2206A08

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #2 TZ CS-1

Project: BMG Landfarm TZ Soil Samples

Collection Date: 6/15/2022 11:51:00 AM

Lab ID: 2206A08-001

Matrix: SOIL

Received Date: 6/18/2022 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 6010B: SOIL METALS						Analyst: JRR
Copper	15	3.9		mg/Kg	2	6/24/2022 9:24:31 AM
Iron	16000	970		mg/Kg	100	6/24/2022 10:04:37 AM
Manganese	220	0.39		mg/Kg	2	6/24/2022 9:24:31 AM
Silver	ND	0.97		mg/Kg	2	6/24/2022 9:24:31 AM
Zinc	41	4.9		mg/Kg	2	6/24/2022 9:24:31 AM
SW8270C						Analyst: TOM
Naphthalene	ND	1.0	D	mg/Kg	100	7/18/2022 11:37:00 PM
1-Methylnaphthalene	ND	1.0	D	mg/Kg	100	7/18/2022 11:37:00 PM
2-Methylnaphthalene	ND	1.0	D	mg/Kg	100	7/18/2022 11:37:00 PM
Benzo(a)pyrene	ND	2.0	D	mg/Kg	100	7/18/2022 11:37:00 PM
Surr: Nitrobenzene-d5		-	D	%Rec	100	7/18/2022 11:37:00 PM
Surr: 2-Fluorobiphenyl		-	D	%Rec	100	7/18/2022 11:37:00 PM
Surr: 4-Terphenyl-d14		-	D	%Rec	100	7/18/2022 11:37:00 PM
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	6/25/2022 5:42:04 AM
Toluene	ND	0.049		mg/Kg	1	6/25/2022 5:42:04 AM
Ethylbenzene	ND	0.049		mg/Kg	1	6/25/2022 5:42:04 AM
Methyl tert-butyl ether (MTBE)	ND	0.049		mg/Kg	1	6/25/2022 5:42:04 AM
1,2,4-Trimethylbenzene	0.049	0.049		mg/Kg	1	6/25/2022 5:42:04 AM
1,3,5-Trimethylbenzene	ND	0.049		mg/Kg	1	6/25/2022 5:42:04 AM
1,2-Dichloroethane (EDC)	ND	0.049		mg/Kg	1	6/25/2022 5:42:04 AM
1,2-Dibromoethane (EDB)	ND	0.049		mg/Kg	1	6/25/2022 5:42:04 AM
Naphthalene	ND	0.097		mg/Kg	1	6/25/2022 5:42:04 AM
1-Methylnaphthalene	ND	0.19		mg/Kg	1	6/25/2022 5:42:04 AM
2-Methylnaphthalene	ND	0.19		mg/Kg	1	6/25/2022 5:42:04 AM
Acetone	ND	0.73		mg/Kg	1	6/25/2022 5:42:04 AM
Bromobenzene	ND	0.049		mg/Kg	1	6/25/2022 5:42:04 AM
Bromodichloromethane	ND	0.049		mg/Kg	1	6/25/2022 5:42:04 AM
Bromoform	ND	0.049		mg/Kg	1	6/25/2022 5:42:04 AM
Bromomethane	ND	0.15		mg/Kg	1	6/25/2022 5:42:04 AM
2-Butanone	ND	0.49		mg/Kg	1	6/25/2022 5:42:04 AM
Carbon disulfide	ND	0.49		mg/Kg	1	6/25/2022 5:42:04 AM
Carbon tetrachloride	ND	0.049		mg/Kg	1	6/25/2022 5:42:04 AM
Chlorobenzene	ND	0.049		mg/Kg	1	6/25/2022 5:42:04 AM
Chloroethane	ND	0.097		mg/Kg	1	6/25/2022 5:42:04 AM
Chloroform	ND	0.049		mg/Kg	1	6/25/2022 5:42:04 AM
Chloromethane	ND	0.15		mg/Kg	1	6/25/2022 5:42:04 AM
2-Chlorotoluene	ND	0.049		mg/Kg	1	6/25/2022 5:42:04 AM

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

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

Analytical Report

Lab Order 2206A08

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #2 TZ CS-1

Project: BMG Landfarm TZ Soil Samples

Collection Date: 6/15/2022 11:51:00 AM

Lab ID: 2206A08-001

Matrix: SOIL

Received Date: 6/18/2022 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
4-Chlorotoluene	ND	0.049		mg/Kg	1	6/25/2022 5:42:04 AM
cis-1,2-DCE	ND	0.049		mg/Kg	1	6/25/2022 5:42:04 AM
cis-1,3-Dichloropropene	ND	0.049		mg/Kg	1	6/25/2022 5:42:04 AM
1,2-Dibromo-3-chloropropane	ND	0.097		mg/Kg	1	6/25/2022 5:42:04 AM
Dibromochloromethane	ND	0.049		mg/Kg	1	6/25/2022 5:42:04 AM
Dibromomethane	ND	0.049		mg/Kg	1	6/25/2022 5:42:04 AM
1,2-Dichlorobenzene	ND	0.049		mg/Kg	1	6/25/2022 5:42:04 AM
1,3-Dichlorobenzene	ND	0.049		mg/Kg	1	6/25/2022 5:42:04 AM
1,4-Dichlorobenzene	ND	0.049		mg/Kg	1	6/25/2022 5:42:04 AM
Dichlorodifluoromethane	ND	0.049		mg/Kg	1	6/25/2022 5:42:04 AM
1,1-Dichloroethane	ND	0.049		mg/Kg	1	6/25/2022 5:42:04 AM
1,1-Dichloroethene	ND	0.049		mg/Kg	1	6/25/2022 5:42:04 AM
1,2-Dichloropropane	ND	0.049		mg/Kg	1	6/25/2022 5:42:04 AM
1,3-Dichloropropane	ND	0.049		mg/Kg	1	6/25/2022 5:42:04 AM
2,2-Dichloropropane	ND	0.097		mg/Kg	1	6/25/2022 5:42:04 AM
1,1-Dichloropropene	ND	0.097		mg/Kg	1	6/25/2022 5:42:04 AM
Hexachlorobutadiene	ND	0.097		mg/Kg	1	6/25/2022 5:42:04 AM
2-Hexanone	ND	0.49		mg/Kg	1	6/25/2022 5:42:04 AM
Isopropylbenzene	ND	0.049		mg/Kg	1	6/25/2022 5:42:04 AM
4-Isopropyltoluene	ND	0.049		mg/Kg	1	6/25/2022 5:42:04 AM
4-Methyl-2-pentanone	ND	0.49		mg/Kg	1	6/25/2022 5:42:04 AM
Methylene chloride	ND	0.15		mg/Kg	1	6/25/2022 5:42:04 AM
n-Butylbenzene	ND	0.15		mg/Kg	1	6/25/2022 5:42:04 AM
n-Propylbenzene	ND	0.049		mg/Kg	1	6/25/2022 5:42:04 AM
sec-Butylbenzene	ND	0.049		mg/Kg	1	6/25/2022 5:42:04 AM
Styrene	ND	0.049		mg/Kg	1	6/25/2022 5:42:04 AM
tert-Butylbenzene	ND	0.049		mg/Kg	1	6/25/2022 5:42:04 AM
1,1,1,2-Tetrachloroethane	ND	0.049		mg/Kg	1	6/25/2022 5:42:04 AM
1,1,2,2-Tetrachloroethane	ND	0.049		mg/Kg	1	6/25/2022 5:42:04 AM
Tetrachloroethene (PCE)	ND	0.049		mg/Kg	1	6/25/2022 5:42:04 AM
trans-1,2-DCE	ND	0.049		mg/Kg	1	6/25/2022 5:42:04 AM
trans-1,3-Dichloropropene	ND	0.049		mg/Kg	1	6/25/2022 5:42:04 AM
1,2,3-Trichlorobenzene	ND	0.097		mg/Kg	1	6/25/2022 5:42:04 AM
1,2,4-Trichlorobenzene	ND	0.049		mg/Kg	1	6/25/2022 5:42:04 AM
1,1,1-Trichloroethane	ND	0.049		mg/Kg	1	6/25/2022 5:42:04 AM
1,1,2-Trichloroethane	ND	0.049		mg/Kg	1	6/25/2022 5:42:04 AM
Trichloroethene (TCE)	ND	0.049		mg/Kg	1	6/25/2022 5:42:04 AM
Trichlorofluoromethane	ND	0.049		mg/Kg	1	6/25/2022 5:42:04 AM
1,2,3-Trichloropropane	ND	0.097		mg/Kg	1	6/25/2022 5:42:04 AM

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

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

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

Analytical Report

Lab Order 2206A08

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #2 TZ CS-1

Project: BMG Landfarm TZ Soil Samples

Collection Date: 6/15/2022 11:51:00 AM

Lab ID: 2206A08-001

Matrix: SOIL

Received Date: 6/18/2022 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Vinyl chloride	ND	0.049		mg/Kg	1	6/25/2022 5:42:04 AM
Xylenes, Total	ND	0.097		mg/Kg	1	6/25/2022 5:42:04 AM
Surr: 1,2-Dichloroethane-d4	115	70-130		%Rec	1	6/25/2022 5:42:04 AM
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	6/25/2022 5:42:04 AM
Surr: Dibromofluoromethane	111	70-130		%Rec	1	6/25/2022 5:42:04 AM
Surr: Toluene-d8	102	70-130		%Rec	1	6/25/2022 5:42:04 AM
SM4500H+B/EPA 9040C						Analyst: MRA
pH	8.08			pH Units	1	7/1/2022 4:30:00 PM

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

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

Analytical Report

Lab Order 2206A08

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #3 TZ CS-1

Project: BMG Landfarm TZ Soil Samples

Collection Date: 6/15/2022 12:54:00 PM

Lab ID: 2206A08-002

Matrix: SOIL

Received Date: 6/18/2022 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082A: PCB'S						Analyst: TOM
Aroclor 1016	ND	0.019		mg/Kg	1	6/28/2022 9:20:08 PM
Aroclor 1221	ND	0.019		mg/Kg	1	6/28/2022 9:20:08 PM
Aroclor 1232	ND	0.019		mg/Kg	1	6/28/2022 9:20:08 PM
Aroclor 1242	ND	0.019		mg/Kg	1	6/28/2022 9:20:08 PM
Aroclor 1248	ND	0.019		mg/Kg	1	6/28/2022 9:20:08 PM
Aroclor 1254	ND	0.019		mg/Kg	1	6/28/2022 9:20:08 PM
Aroclor 1260	ND	0.019		mg/Kg	1	6/28/2022 9:20:08 PM
Surr: Decachlorobiphenyl	72.4	47.2-115		%Rec	1	6/28/2022 9:20:08 PM
Surr: Tetrachloro-m-xylene	91.2	15-110		%Rec	1	6/28/2022 9:20:08 PM
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: ED
Diesel Range Organics (DRO)	210	15		mg/Kg	1	6/28/2022 7:32:36 PM
Motor Oil Range Organics (MRO)	470	50		mg/Kg	1	6/28/2022 7:32:36 PM
Surr: DNOP	105	51.1-141		%Rec	1	6/28/2022 7:32:36 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/24/2022 2:32:07 AM
Surr: BFB	98.2	37.7-212		%Rec	1	6/24/2022 2:32:07 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Fluoride	2.8	1.5		mg/Kg	5	6/23/2022 11:38:53 PM
Chloride	24	7.5		mg/Kg	5	6/23/2022 11:38:53 PM
Nitrogen, Nitrite (As N)	ND	1.5		mg/Kg	5	6/23/2022 11:38:53 PM
Nitrogen, Nitrate (As N)	7.2	1.5		mg/Kg	5	6/23/2022 11:38:53 PM
Sulfate	90	7.5		mg/Kg	5	6/23/2022 11:38:53 PM
EPA METHOD 6020A: TOTAL METALS						Analyst: DBK
Antimony	ND	0.48		mg/Kg	5	6/30/2022 4:16:24 PM
Arsenic	4.3	0.48		mg/Kg	5	6/24/2022 9:06:18 PM
Lead	12	0.48		mg/Kg	5	6/24/2022 9:06:18 PM
Selenium	1.2	0.48		mg/Kg	5	6/29/2022 9:16:57 PM
Thallium	ND	0.48		mg/Kg	5	6/24/2022 9:06:18 PM
Uranium	0.86	0.48		mg/Kg	5	6/29/2022 9:16:57 PM
EPA METHOD 7471B: MERCURY						Analyst: VP
Mercury	ND	0.032		mg/Kg	1	6/22/2022 2:11:03 PM
EPA METHOD 6010B: SOIL METALS						Analyst: JRR
Barium	97	0.19		mg/Kg	2	6/24/2022 9:26:25 AM
Beryllium	0.73	0.29		mg/Kg	2	6/24/2022 9:26:25 AM
Cadmium	ND	0.19		mg/Kg	2	6/24/2022 9:26:25 AM
Chromium	9.3	0.58		mg/Kg	2	6/24/2022 9:26:25 AM

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

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

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

Analytical Report

Lab Order 2206A08

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #3 TZ CS-1

Project: BMG Landfarm TZ Soil Samples

Collection Date: 6/15/2022 12:54:00 PM

Lab ID: 2206A08-002

Matrix: SOIL

Received Date: 6/18/2022 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 6010B: SOIL METALS						Analyst: JRR
Copper	12	3.8		mg/Kg	2	6/24/2022 9:26:25 AM
Iron	16000	960		mg/Kg	100	6/24/2022 10:06:25 AM
Manganese	200	0.38		mg/Kg	2	6/24/2022 9:26:25 AM
Silver	ND	0.96		mg/Kg	2	6/24/2022 9:26:25 AM
Zinc	41	4.8		mg/Kg	2	6/24/2022 9:26:25 AM
SW8270C						Analyst: TOM
Naphthalene	ND	0.94	D	mg/Kg	100	7/19/2022 12:20:00 AM
1-Methylnaphthalene	ND	0.94	D	mg/Kg	100	7/19/2022 12:20:00 AM
2-Methylnaphthalene	ND	0.94	D	mg/Kg	100	7/19/2022 12:20:00 AM
Benzo(a)pyrene	ND	1.9	D	mg/Kg	100	7/19/2022 12:20:00 AM
Surr: Nitrobenzene-d5		-	D	%Rec	100	7/19/2022 12:20:00 AM
Surr: 2-Fluorobiphenyl		-	D	%Rec	100	7/19/2022 12:20:00 AM
Surr: 4-Terphenyl-d14		-	D	%Rec	100	7/19/2022 12:20:00 AM
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	6/25/2022 7:07:59 AM
Toluene	ND	0.046		mg/Kg	1	6/25/2022 7:07:59 AM
Ethylbenzene	ND	0.046		mg/Kg	1	6/25/2022 7:07:59 AM
Methyl tert-butyl ether (MTBE)	ND	0.046		mg/Kg	1	6/25/2022 7:07:59 AM
1,2,4-Trimethylbenzene	ND	0.046		mg/Kg	1	6/25/2022 7:07:59 AM
1,3,5-Trimethylbenzene	ND	0.046		mg/Kg	1	6/25/2022 7:07:59 AM
1,2-Dichloroethane (EDC)	ND	0.046		mg/Kg	1	6/25/2022 7:07:59 AM
1,2-Dibromoethane (EDB)	ND	0.046		mg/Kg	1	6/25/2022 7:07:59 AM
Naphthalene	ND	0.093		mg/Kg	1	6/25/2022 7:07:59 AM
1-Methylnaphthalene	ND	0.19		mg/Kg	1	6/25/2022 7:07:59 AM
2-Methylnaphthalene	ND	0.19		mg/Kg	1	6/25/2022 7:07:59 AM
Acetone	ND	0.70		mg/Kg	1	6/25/2022 7:07:59 AM
Bromobenzene	ND	0.046		mg/Kg	1	6/25/2022 7:07:59 AM
Bromodichloromethane	ND	0.046		mg/Kg	1	6/25/2022 7:07:59 AM
Bromoform	ND	0.046		mg/Kg	1	6/25/2022 7:07:59 AM
Bromomethane	ND	0.14		mg/Kg	1	6/25/2022 7:07:59 AM
2-Butanone	ND	0.46		mg/Kg	1	6/25/2022 7:07:59 AM
Carbon disulfide	ND	0.46		mg/Kg	1	6/25/2022 7:07:59 AM
Carbon tetrachloride	ND	0.046		mg/Kg	1	6/25/2022 7:07:59 AM
Chlorobenzene	ND	0.046		mg/Kg	1	6/25/2022 7:07:59 AM
Chloroethane	ND	0.093		mg/Kg	1	6/25/2022 7:07:59 AM
Chloroform	ND	0.046		mg/Kg	1	6/25/2022 7:07:59 AM
Chloromethane	ND	0.14		mg/Kg	1	6/25/2022 7:07:59 AM
2-Chlorotoluene	ND	0.046		mg/Kg	1	6/25/2022 7:07:59 AM

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

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

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

Page 6 of 23

Analytical Report

Lab Order 2206A08

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #3 TZ CS-1

Project: BMG Landfarm TZ Soil Samples

Collection Date: 6/15/2022 12:54:00 PM

Lab ID: 2206A08-002

Matrix: SOIL

Received Date: 6/18/2022 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
4-Chlorotoluene	ND	0.046		mg/Kg	1	6/25/2022 7:07:59 AM
cis-1,2-DCE	ND	0.046		mg/Kg	1	6/25/2022 7:07:59 AM
cis-1,3-Dichloropropene	ND	0.046		mg/Kg	1	6/25/2022 7:07:59 AM
1,2-Dibromo-3-chloropropane	ND	0.093		mg/Kg	1	6/25/2022 7:07:59 AM
Dibromochloromethane	ND	0.046		mg/Kg	1	6/25/2022 7:07:59 AM
Dibromomethane	ND	0.046		mg/Kg	1	6/25/2022 7:07:59 AM
1,2-Dichlorobenzene	ND	0.046		mg/Kg	1	6/25/2022 7:07:59 AM
1,3-Dichlorobenzene	ND	0.046		mg/Kg	1	6/25/2022 7:07:59 AM
1,4-Dichlorobenzene	ND	0.046		mg/Kg	1	6/25/2022 7:07:59 AM
Dichlorodifluoromethane	ND	0.046		mg/Kg	1	6/25/2022 7:07:59 AM
1,1-Dichloroethane	ND	0.046		mg/Kg	1	6/25/2022 7:07:59 AM
1,1-Dichloroethene	ND	0.046		mg/Kg	1	6/25/2022 7:07:59 AM
1,2-Dichloropropane	ND	0.046		mg/Kg	1	6/25/2022 7:07:59 AM
1,3-Dichloropropane	ND	0.046		mg/Kg	1	6/25/2022 7:07:59 AM
2,2-Dichloropropane	ND	0.093		mg/Kg	1	6/25/2022 7:07:59 AM
1,1-Dichloropropene	ND	0.093		mg/Kg	1	6/25/2022 7:07:59 AM
Hexachlorobutadiene	ND	0.093		mg/Kg	1	6/25/2022 7:07:59 AM
2-Hexanone	ND	0.46		mg/Kg	1	6/25/2022 7:07:59 AM
Isopropylbenzene	ND	0.046		mg/Kg	1	6/25/2022 7:07:59 AM
4-Isopropyltoluene	ND	0.046		mg/Kg	1	6/25/2022 7:07:59 AM
4-Methyl-2-pentanone	ND	0.46		mg/Kg	1	6/25/2022 7:07:59 AM
Methylene chloride	ND	0.14		mg/Kg	1	6/25/2022 7:07:59 AM
n-Butylbenzene	ND	0.14		mg/Kg	1	6/25/2022 7:07:59 AM
n-Propylbenzene	ND	0.046		mg/Kg	1	6/25/2022 7:07:59 AM
sec-Butylbenzene	ND	0.046		mg/Kg	1	6/25/2022 7:07:59 AM
Styrene	ND	0.046		mg/Kg	1	6/25/2022 7:07:59 AM
tert-Butylbenzene	ND	0.046		mg/Kg	1	6/25/2022 7:07:59 AM
1,1,1,2-Tetrachloroethane	ND	0.046		mg/Kg	1	6/25/2022 7:07:59 AM
1,1,2,2-Tetrachloroethane	ND	0.046		mg/Kg	1	6/25/2022 7:07:59 AM
Tetrachloroethene (PCE)	ND	0.046		mg/Kg	1	6/25/2022 7:07:59 AM
trans-1,2-DCE	ND	0.046		mg/Kg	1	6/25/2022 7:07:59 AM
trans-1,3-Dichloropropene	ND	0.046		mg/Kg	1	6/25/2022 7:07:59 AM
1,2,3-Trichlorobenzene	ND	0.093		mg/Kg	1	6/25/2022 7:07:59 AM
1,2,4-Trichlorobenzene	ND	0.046		mg/Kg	1	6/25/2022 7:07:59 AM
1,1,1-Trichloroethane	ND	0.046		mg/Kg	1	6/25/2022 7:07:59 AM
1,1,2-Trichloroethane	ND	0.046		mg/Kg	1	6/25/2022 7:07:59 AM
Trichloroethene (TCE)	ND	0.046		mg/Kg	1	6/25/2022 7:07:59 AM
Trichlorofluoromethane	ND	0.046		mg/Kg	1	6/25/2022 7:07:59 AM
1,2,3-Trichloropropane	ND	0.093		mg/Kg	1	6/25/2022 7:07:59 AM

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

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

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

Page 7 of 23

Analytical Report

Lab Order 2206A08

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #3 TZ CS-1

Project: BMG Landfarm TZ Soil Samples

Collection Date: 6/15/2022 12:54:00 PM

Lab ID: 2206A08-002

Matrix: SOIL

Received Date: 6/18/2022 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Vinyl chloride	ND	0.046		mg/Kg	1	6/25/2022 7:07:59 AM
Xylenes, Total	ND	0.093		mg/Kg	1	6/25/2022 7:07:59 AM
Surr: 1,2-Dichloroethane-d4	109	70-130		%Rec	1	6/25/2022 7:07:59 AM
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	6/25/2022 7:07:59 AM
Surr: Dibromofluoromethane	109	70-130		%Rec	1	6/25/2022 7:07:59 AM
Surr: Toluene-d8	103	70-130		%Rec	1	6/25/2022 7:07:59 AM
SM4500H+B/EPA 9040C						Analyst: MRA
pH	8.02			pH Units	1	7/1/2022 4:30:00 PM

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

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

Page 8 of 23



ANALYTICAL REPORT

July 01, 2022

Hall Environmental Analysis Laboratory

Sample Delivery Group: L1507380

Samples Received: 06/22/2022

Project Number:

Description:

Report To: Andy Freeman
4901 Hawkins NE
Albuquerque, NM 87109

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Entire Report Reviewed By:

A handwritten signature in blue ink that reads "John V. Hawkins".

John Hawkins
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	² Tc
Cn: Case Narrative	4	
Sr: Sample Results	5	³ Ss
2206A08-001C CELL #2 TZ CS-1 L1507380-01	5	
2206A08-002C CELL #3 TZ CS-1 L1507380-02	6	⁴ Cn
Qc: Quality Control Summary	7	⁵ Sr
Wet Chemistry by Method 9012B	7	
Wet Chemistry by Method 9066	8	⁶ Qc
Gl: Glossary of Terms	9	⁷ Gl
Al: Accreditations & Locations	10	
Sc: Sample Chain of Custody	11	⁸ Al
		⁹ Sc

2206A08-001C CELL #2 TZ CS-1 L1507380-01 Solid

				Collected by	Collected date/time	Received date/time	
					06/15/22 11:51	06/22/22 09:45	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Wet Chemistry by Method 9012B	WG1883769	1	06/28/22 09:46	06/28/22 23:18	CAT	Mt. Juliet, TN	
Wet Chemistry by Method 9066	WG1884598	1	06/24/22 11:03	06/26/22 22:05	CAT	Mt. Juliet, TN	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

2206A08-002C CELL #3 TZ CS-1 L1507380-02 Solid

				Collected by	Collected date/time	Received date/time	
					06/15/22 12:54	06/22/22 09:45	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Wet Chemistry by Method 9012B	WG1883769	1	06/28/22 09:46	06/28/22 23:22	CAT	Mt. Juliet, TN	
Wet Chemistry by Method 9066	WG1884598	1	06/24/22 11:03	06/26/22 22:07	CAT	Mt. Juliet, TN	

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



John Hawkins
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ Gl
- ⁸ Al
- ⁹ Sc

Collected date/time: 06/15/22 11:51

L1507380

Wet Chemistry by Method 9012B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Cyanide	ND		0.250	1	06/28/2022 23:18	WG1883769

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Wet Chemistry by Method 9066

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Total Phenol by 4AAP	ND		0.670	1	06/26/2022 22:05	WG1884598

Collected date/time: 06/15/22 12:54

L1507380

Wet Chemistry by Method 9012B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Cyanide	ND		0.250	1	06/28/2022 23:22	WG1883769

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Wet Chemistry by Method 9066

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Total Phenol by 4AAP	ND		0.670	1	06/26/2022 22:07	WG1884598

Method Blank (MB)

(MB) R3808628-1 06/28/22 22:56

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Cyanide	U		0.0733	0.250

L1506336-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1506336-02 06/28/22 23:11 • (DUP) R3808628-5 06/28/22 23:12

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Cyanide	ND	ND	1	0.000		20

L1507380-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1507380-01 06/28/22 23:18 • (DUP) R3808628-6 06/28/22 23:21

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Cyanide	ND	ND	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3808628-2 06/28/22 22:57

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Cyanide	2.50	2.70	108	85.0-115	

L1506274-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1506274-02 06/28/22 23:05 • (MS) R3808628-3 06/28/22 23:08 • (MSD) R3808628-4 06/28/22 23:09

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Cyanide	1.67	ND	1.32	1.38	78.9	82.8	1	75.0-125			4.82	20

L1507651-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1507651-02 06/28/22 23:24 • (MS) R3808628-7 06/28/22 23:25 • (MSD) R3808628-8 06/28/22 23:26

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Cyanide	1.67	ND	1.49	1.48	89.2	88.9	1	75.0-125			0.441	20

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Released to Imaging: 4/8/2025 10:47:33 AM
Hall Environmental Analysis Laboratory

PROJECT:

SDG:
L1507380

DATE/TIME:
07/01/22 09:18

PAGE:
7 of 11

Method Blank (MB)

(MB) R3807690-1 06/26/22 22:04

Analyte	MB Result mg/kg	<u>MB Qualifier</u>	MB MDL mg/kg	MB RDL mg/kg
Total Phenol by 4AAP	U		0.220	0.670

L1507380-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1507380-02 06/26/22 22:07 • (DUP) R3807690-5 06/26/22 22:08

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Total Phenol by 4AAP	ND	ND	1	26.4		20

Laboratory Control Sample (LCS)

(LCS) R3807690-2 06/26/22 22:04

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Total Phenol by 4AAP	8.33	7.68	92.2	72.1-129	

L1507380-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1507380-01 06/26/22 22:05 • (MS) R3807690-3 06/26/22 22:06 • (MSD) R3807690-4 06/26/22 22:07

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Total Phenol by 4AAP	16.7	ND	14.1	14.5	83.9	86.4	1	15.4-151			2.87	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

QualifierDescription

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

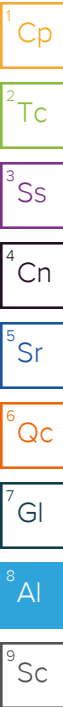
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

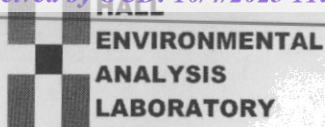
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



CHAIN OF CUSTODY RECORD

PAGE: 1 OF: 1



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

J119

SUB CONTRACTOR: Pace TN		COMPANY: PACE TN		PHONE: (800) 767-5859		FAX: (615) 758-5859	
ADDRESS: 12065 Lebanon Rd				ACCOUNT #:		EMAIL:	
CITY, STATE, ZIP: Mt. Juliet, TN 37122							
ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
1	2206A08-001C	Cell #2 TZ CS-1	8OZGU	Soil	6/15/2022 11:51:00 AM	1	Cyanide, Phenols in Soil L150 7380
2	2206A08-002C	Cell #3 TZ CS-1	8OZGU	Soil	6/15/2022 12:54:00 PM	1	Cyanide, Phenols in Soil

Sample Receipt Checklist

COC Seal Present/Intact: ☒ Y ☐ N If Applicable

COC Signed/Accurate: ☒ Y ☐ N VOA Zero Headspace: ☐ Y ☐ N

Bottles arrive intact: ☒ Y ☐ N Pres. Correct/Check: ☐ Y ☐ N

Correct bottles used: ☒ Y ☐ N

Sufficient volume sent: ☒ Y ☐ N

RAD Screen <0.5 mR/hr: ☒ Y ☐ N

SPECIAL INSTRUCTIONS / COMMENTS:

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you.

Relinquished By: <u>SR</u>	Date: 6/20/2022	Time: 10:07 AM	Received By: <u>[Signature]</u>	Date: 6/21/22	Time: 0945	REPORT TRANSMITTAL DESIRED: ☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE FOR LAB USE ONLY Temp of samples _____ °C Attempt to Cool ? _____ Comments: _____
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	
TAT: Standard ☒ RUSH ☐ Next BD ☐ 2nd BD ☐ 3rd BD ☐						

July 19, 2022

Andy Freeman
Hall Environmental
4901 Hawkins NE
Albuquerque, NM 87109

RE: Project: 2206A08
Pace Project No.: 30500351

Dear Andy Freeman:

Enclosed are the analytical results for sample(s) received by the laboratory on June 23, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Hollie Compton

Hollie M. Compton
hollie.compton@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Ms. Jackie Ball, Hall Environmental
Michelle Garcia, Hall Environmental



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: 2206A08

Pace Project No.: 30500351

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

Delaware Certification

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Florida: Cert E871149 SEKS WET

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA180012

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: 2017020

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572018-1

New Hampshire/TNI Certification #: 297617

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-010

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: 02867

Texas/TNI Certification #: T104704188-17-3

Utah/TNI Certification #: PA014572017-9

USDA Soil Permit #: P330-17-00091

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE SUMMARY

Project: 2206A08
Pace Project No.: 30500351

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30500351001	2206A08-001B/Cell #2 TZ CS-1	Solid	06/15/22 11:51	06/23/22 09:10
30500351002	2206A08-002B/Cell #3 TZ CS-1	Solid	06/15/22 12:54	06/23/22 09:10

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE ANALYTE COUNT

Project: 2206A08

Pace Project No.: 30500351

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30500351001	2206A08-001B/Cell #2 TZ CS-1	EPA 901.1	MAH	2	PASI-PA
30500351002	2206A08-002B/Cell #3 TZ CS-1	EPA 901.1	MAH	2	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

PROJECT NARRATIVE

Project: 2206A08
Pace Project No.: 30500351

Method: EPA 901.1
Description: 901.1 Gamma Spec INGROWTH
Client: Hall Environmental
Date: July 19, 2022

General Information:

2 samples were analyzed for EPA 901.1 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2206A08

Pace Project No.: 30500351

Sample: 2206A08-001B/Cell #2 TZ **Lab ID:** 30500351001 Collected: 06/15/22 11:51 Received: 06/23/22 09:10 Matrix: Solid
CS-1

PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 901.1	1.375 ± 0.337 (0.152) C:NA T:NA	pCi/g	07/19/22 09:42	13982-63-3	Ra
Radium-228	EPA 901.1	1.243 ± 0.425 (0.238) C:NA T:NA	pCi/g	07/19/22 09:42	15262-20-1	

Sample: 2206A08-002B/Cell #3 TZ **Lab ID:** 30500351002 Collected: 06/15/22 12:54 Received: 06/23/22 09:10 Matrix: Solid
CS-1

PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 901.1	1.193 ± 0.240 (0.217) C:NA T:NA	pCi/g	07/19/22 10:01	13982-63-3	Ra
Radium-228	EPA 901.1	1.167 ± 0.376 (0.321) C:NA T:NA	pCi/g	07/19/22 10:01	15262-20-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL - RADIOCHEMISTRY

Project: 2206A08

Pace Project No.: 30500351

QC Batch: 516830

Analysis Method: EPA 901.1

QC Batch Method: EPA 901.1

Analysis Description: 901.1 Gamma Spec Ingrowth

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30500351001, 30500351002

METHOD BLANK: 2505305

Matrix: Solid

Associated Lab Samples: 30500351001, 30500351002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.000 ± 0.056 (0.180) C:NA T:NA	pCi/g	07/19/22 09:23	Ra
Radium-228	0.117 ± 0.104 (0.205) C:NA T:NA	pCi/g	07/19/22 09:23	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALIFIERS

Project: 2206A08
Pace Project No.: 30500351

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

Ra The reported Ra-226 results were determined by hermetically sealing the dried, processed sample in an appropriate-sized can. Each sample was stored for a minimum of 21 days to ensure that equilibrium between Ra-226 and daughters Bi-214 and Pb-214 was achieved. Reported Ra-226 results were inferred from gamma peaks attributable to Bi-214 and Pb-214.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Date: 07/19/2022 12:22 PM

Page 8 of 11



CHAIN OF CUSTODY RECORD

PAGE: 1	OF: 1
---------	-------

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

SUB CONTRACTOR: Pace-Greensburg		COMPANY: Pace Analytical Services, Inc.		PHONE: (724) 850-5600		FAX: (724) 850-5601	
ADDRESS: 1638 Roseytown Rd Ste 2,3,4				ACCOUNT #:		EMAIL:	
CITY, STATE, ZIP: Greensburg, PA 15601							
ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
1	2206A08-001B	Cell #2 TZ CS-1	8OZGU	Soil	6/15/2022 11:51:00 AM	1	Rad 226/228 in Soil
2	2206A08-002B	Cell #3 TZ CS-1	8OZGU	Soil	6/15/2022 12:54:00 PM	1	Rad 226/228 in Soil

WO#: 30500351



SPECIAL INSTRUCTIONS / COMMENTS:

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you.

Relinquished By: <i>JAC</i>	Date: 6/20/2022	Time: 10:07 AM	Received By: <i>[Signature]</i>	Date: 6/23/22	Time: 9:10	REPORT TRANSMITTAL DESIRED:	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	☐ HARDCOPY (extra cost)	☐ FAX ☐ EMAIL ☐ ONLINE
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	FOR LAB USE ONLY	
TAT: Standard ☒ RUSH ☐ Next BD ☐ 2nd BD ☐ 3rd BD ☐						Temp of samples _____ °C Attempt to Cool ? _____	
Comments:						_____	

Client Name: Hall

Project # _____

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____Tracking #: 5344 4098 7676

Label	<u>PS</u>
LIMS Login	<u>VP</u>

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☒ no

Thermometer Used _____

Type of Ice: Wet Blue None

Cooler Temperature _____ Observed Temp _____ °C Correction Factor: _____ °C Final Temp: _____ °C

Temp should be above freezing to 6°C

Comments:	Yes	No	N/A	pH paper Lot# <u>10D4611</u>	Date and Initials of person examining contents: <u>PS 6/23/22</u>
Chain of Custody Present:	☒	☐	☐	1. <u>PS 6/23/22</u>	
Chain of Custody Filled Out:	☒	☐	☐	2.	
Chain of Custody Relinquished:	☒	☐	☐	3.	
Sampler Name & Signature on COC:	☐	☒	☐	4.	
Sample Labels match COC:	☒	☐	☐	5.	
-Includes date/time/ID Matrix: <u>SL</u>					
Samples Arrived within Hold Time:	☒	☐	☐	6.	
Short Hold Time Analysis (<72hr remaining):	☐	☒	☐	7.	
Rush Turn Around Time Requested:	☐	☒	☐	8.	
Sufficient Volume:	☒	☐	☐	9.	
Correct Containers Used:	☒	☐	☐	10.	
-Pace Containers Used:	☐	☒	☐		
Containers Intact:	☒	☐	☐	11.	
Orthophosphate field filtered	☐	☐	☒	12.	
Hex Cr Aqueous sample field filtered	☐	☐	☒	13.	
Organic Samples checked for dechlorination:	☐	☐	☒	14.	
Filtered volume received for Dissolved tests	☐	☐	☒	15.	
All containers have been checked for preservation.	☐	☐	☒	16.	
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, <u>Non-aqueous matrix</u>					
All containers meet method preservation requirements.	☒	☐	☐	Initial when completed <u>PS</u>	Date/time of preservation
				Lot # of added preservative	
Headspace in VOA Vials (>6mm):	☐	☐	☒	17.	
Trip Blank Present:	☐	☒	☐	18.	
Trip Blank Custody Seals Present	☐	☒	☐		
Rad Samples Screened < 0.5 mrem/hr	☒	☐	☐	Initial when completed: <u>PS</u>	Date: <u>6/23/22</u> Survey Meter SN: <u>1563</u>

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

☐ A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

WO#: 30500351
 Due Date: 07/22/22
 PM: HMC
 CLIENT: HALL ENVIRON

Pace Greensburg Lab -Sample Container Count

Pace Analytical®

Profile Number

1845

Notes

Client

Site

Sample Name

2206 A08

Received by: 4/8/2025 10:47:33 AM

	Matrix	AG1H	AG1S	AG1T	AG2U	AG3S	AG3U	AG5U	AG5T	BG1U	BG2U	BP1N	BP1U	BP2S	BP2U	BP3C	BP3N	BP3S	BP3U	DG9S	GCUB	VG9H	VG9T	VG9U	VOAK	WGFU	WGKU	ZPLC
5	SL ↓																											
6																												
7																												
8																												
9																												
10																												
11																												
12																												

WO#: 30500351

PM: HMC

Due Date: 07/22/22

CLIENT: HALL ENVIRON

Container Codes

Glass

GJN	1 Gallon Jug with HNO3	DG9S	40mL amber VOA vial H2SO4
AG5U	100mL amber glass unprservd	VG9U	40mL clear VOA vial
AG5T	100mL amber glass Na Thiosulfate	VG9T	40mL clear VOA vial Na Thiosulf
GJN	1 Gallon Jug	VG9H	40mL clear VOA vial HCl
AG1S	1L amber glass H2SO4	JGFU	4oz amber wide jar
AG1H	1L amber glass HCl	WGFU	4oz wide jar unpreserved
AG1T	1L amber glass Na Thiosulfate	BG2U	500mL clear glass unpreserved
BG1U	1L clear glass unpreserved	AG2U	500mL amber glass unpreserved
AG3S	250mL amber glass H2SO4	WGKU	8oz wide jar unpreserved
AG3U	250mL amber glass unpreserved		

Plastic / Misc.

GCUB	1 Gallon Cubitainer
12GN	1/2 Gallon Cubitainer
SP5T	120mL Coliform Na Thiosulfate
BP1N	1L plastic HNO3
BP1U	1L plastic unpreserved
BP3S	250mL plastic H2SO4
BP3N	250mL plastic HNO3
BP3U	250mL plastic unpreserved
BP3C	250ml plastic NAOH
BP2S	500mL plastic H2SO4
BP2U	500mL plastic unpreserved

EZL	5g Encore
VOAK	Kit for Volatile Solid
I	Wipe/Swab
ZPLC	Ziploc Bag

WT	Water
SL	Solid
OL	Non-aqueous liquid
WP	Wipe

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

WO#: 2206A08

20-Jul-22

Client: Animas Environmental Services**Project:** BMG Landfarm TZ Soil Samples

Sample ID: MB-68311	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 68311	RunNo: 89002								
Prep Date: 6/23/2022	Analysis Date: 6/23/2022	SeqNo: 3160629	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.30								
Chloride	ND	1.5								
Nitrogen, Nitrite (As N)	ND	0.30								
Nitrogen, Nitrate (As N)	ND	0.30								
Sulfate	ND	1.5								

Sample ID: LCS-68311	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 68311	RunNo: 89002								
Prep Date: 6/23/2022	Analysis Date: 6/23/2022	SeqNo: 3160632	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	1.6	0.30	1.500	0	110	90	110			
Chloride	15	1.5	15.00	0	98.1	90	110			
Nitrogen, Nitrite (As N)	3.1	0.30	3.000	0	102	90	110			
Nitrogen, Nitrate (As N)	8.1	0.30	7.500	0	107	90	110			
Sulfate	32	1.5	30.00	0	106	90	110			

Qualifiers:

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

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

WO#: 2206A08

20-Jul-22

Client: Animas Environmental Services**Project:** BMG Landfarm TZ Soil Samples

Sample ID: MB-68263	SampType: MBLK	TestCode: EPA Method 6020A: Total Metals								
Client ID: PBS	Batch ID: 68263	RunNo: 89026								
Prep Date: 6/21/2022	Analysis Date: 6/24/2022	SeqNo: 3161548 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.20								
Lead	ND	0.20								
Selenium	ND	0.20								
Thallium	ND	0.20								

Sample ID: MSLLCS-68263	SampType: LCSLL	TestCode: EPA Method 6020A: Total Metals								
Client ID: BatchQC	Batch ID: 68263	RunNo: 89026								
Prep Date: 6/21/2022	Analysis Date: 6/24/2022	SeqNo: 3161549 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.20	0.1000	0	86.4	70	130			
Lead	ND	0.20	0.1000	0	94.3	70	130			
Selenium	ND	0.20	0.1000	0	111	70	130			
Thallium	ND	0.20	0.1000	0	95.6	70	130			

Sample ID: MSLCS-68263	SampType: LCS	TestCode: EPA Method 6020A: Total Metals								
Client ID: LCSS	Batch ID: 68263	RunNo: 89026								
Prep Date: 6/21/2022	Analysis Date: 6/24/2022	SeqNo: 3161550 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	4.8	0.20	5.000	0	96.7	80	120			
Lead	4.8	0.20	5.000	0	95.5	80	120			
Selenium	4.9	0.20	5.000	0	98.1	80	120			
Thallium	4.7	0.20	5.000	0	94.5	80	120			

Sample ID: 2206A08-001AMSL	SampType: MS	TestCode: EPA Method 6020A: Total Metals								
Client ID: Cell #2 TZ CS-1	Batch ID: 68263	RunNo: 89026								
Prep Date: 6/21/2022	Analysis Date: 6/24/2022	SeqNo: 3161599 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	8.5	0.48	4.809	3.998	93.0	70	130			
Lead	19	0.48	4.809	14.81	95.8	70	130			
Thallium	5.0	0.48	4.809	0	103	70	130			

Sample ID: 2206A08-001AMSDL	SampType: MSD	TestCode: EPA Method 6020A: Total Metals								
Client ID: Cell #2 TZ CS-1	Batch ID: 68263	RunNo: 89026								
Prep Date: 6/21/2022	Analysis Date: 6/24/2022	SeqNo: 3161600 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	8.2	0.49	4.910	3.998	85.7	70	130	3.15	20	

Qualifiers:

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

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

WO#: 2206A08

20-Jul-22

Client: Animas Environmental Services**Project:** BMG Landfarm TZ Soil Samples

Sample ID: 2206A08-001AMSDL	SampType: MSD	TestCode: EPA Method 6020A: Total Metals								
Client ID: Cell #2 TZ CS-1	Batch ID: 68263	RunNo: 89026								
Prep Date: 6/21/2022	Analysis Date: 6/24/2022	SeqNo: 3161600	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	19	0.49	4.910	14.81	76.3	70	130	4.54	20	
Thallium	4.9	0.49	4.910	0	99.1	70	130	2.22	20	

Sample ID: MB-68263	SampType: MBLK	TestCode: EPA Method 6020A: Total Metals								
Client ID: PBS	Batch ID: 68263	RunNo: 89088								
Prep Date: 6/21/2022	Analysis Date: 6/28/2022	SeqNo: 3165463	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Uranium	ND	0.20								

Sample ID: MSLLLCS-68263	SampType: LCSLL	TestCode: EPA Method 6020A: Total Metals								
Client ID: BatchQC	Batch ID: 68263	RunNo: 89088								
Prep Date: 6/21/2022	Analysis Date: 6/28/2022	SeqNo: 3165464	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Uranium	ND	0.20	0.1000	0	87.5	70	130			

Sample ID: MSLCS-68263	SampType: LCS	TestCode: EPA Method 6020A: Total Metals								
Client ID: LCSS	Batch ID: 68263	RunNo: 89088								
Prep Date: 6/21/2022	Analysis Date: 6/28/2022	SeqNo: 3165465	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Uranium	4.7	0.20	5.000	0	93.3	80	120			

Sample ID: 2206A08-001AMSL	SampType: MS	TestCode: EPA Method 6020A: Total Metals								
Client ID: Cell #2 TZ CS-1	Batch ID: 68263	RunNo: 89136								
Prep Date: 6/21/2022	Analysis Date: 6/29/2022	SeqNo: 3167489	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	5.4	0.48	4.809	1.063	89.6	70	130			
Uranium	4.9	0.48	4.809	0.7094	87.0	70	130			

Sample ID: 2206A08-001AMSDL	SampType: MSD	TestCode: EPA Method 6020A: Total Metals								
Client ID: Cell #2 TZ CS-1	Batch ID: 68263	RunNo: 89136								
Prep Date: 6/21/2022	Analysis Date: 6/29/2022	SeqNo: 3167490	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	5.4	0.49	4.910	1.063	87.3	70	130	0.386	20	
Uranium	5.0	0.49	4.910	0.7094	86.7	70	130	1.46	20	

Qualifiers:

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

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

WO#: 2206A08

20-Jul-22

Client: Animas Environmental Services**Project:** BMG Landfarm TZ Soil Samples

Sample ID: MB-68263	SampType: MBLK	TestCode: EPA Method 6020A: Total Metals								
Client ID: PBS	Batch ID: 68263	RunNo: 89181								
Prep Date: 6/21/2022	Analysis Date: 6/30/2022	SeqNo: 3170013 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	0.20								

Sample ID: MSLLCS-68263	SampType: LCSLL	TestCode: EPA Method 6020A: Total Metals								
Client ID: BatchQC	Batch ID: 68263	RunNo: 89181								
Prep Date: 6/21/2022	Analysis Date: 6/30/2022	SeqNo: 3170016 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	0.20	0.1000	0	86.1	70	130			

Sample ID: MSLCS-68263	SampType: LCS	TestCode: EPA Method 6020A: Total Metals								
Client ID: LCSS	Batch ID: 68263	RunNo: 89181								
Prep Date: 6/21/2022	Analysis Date: 6/30/2022	SeqNo: 3170017 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	4.7	0.20	5.000	0	93.6	80	120			

Sample ID: 2206A08-001AMSLL	SampType: MS	TestCode: EPA Method 6020A: Total Metals								
Client ID: Cell #2 TZ CS-1	Batch ID: 68263	RunNo: 89181								
Prep Date: 6/21/2022	Analysis Date: 6/30/2022	SeqNo: 3170021 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	1.1	0.48	4.809	0	22.4	70	130			S

Sample ID: 2206A08-001AMSDL	SampType: MSD	TestCode: EPA Method 6020A: Total Metals								
Client ID: Cell #2 TZ CS-1	Batch ID: 68263	RunNo: 89181								
Prep Date: 6/21/2022	Analysis Date: 6/30/2022	SeqNo: 3170022 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	1.1	0.49	4.910	0	21.4	70	130	2.07	20	S

Qualifiers:

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

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

WO#: 2206A08

20-Jul-22

Client: Animas Environmental Services**Project:** BMG Landfarm TZ Soil Samples

Sample ID: MB-68322	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 68322	RunNo: 88982								
Prep Date: 6/23/2022	Analysis Date: 6/24/2022	SeqNo: 3162904 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		106	51.1	141			

Sample ID: LCS-68322	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 68322	RunNo: 88982								
Prep Date: 6/23/2022	Analysis Date: 6/24/2022	SeqNo: 3162905 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	15	50.00	0	98.6	64.4	127			
Surr: DNOP	5.4		5.000		109	51.1	141			

Sample ID: LCS-68409	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 68409	RunNo: 89082								
Prep Date: 6/28/2022	Analysis Date: 6/28/2022	SeqNo: 3166134 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.2		5.000		84.6	51.1	141			

Sample ID: MB-68409	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 68409	RunNo: 89082								
Prep Date: 6/28/2022	Analysis Date: 6/28/2022	SeqNo: 3166138 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	7.7		10.00		76.9	51.1	141			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2206A08
20-Jul-22

Client: Animas Environmental Services
Project: BMG Landfarm TZ Soil Samples

Sample ID: mb-68260	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 68260	RunNo: 88994								
Prep Date: 6/21/2022	Analysis Date: 6/24/2022	SeqNo: 3160385	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	980		1000		98.2	37.7	212			

Sample ID: lcs-68260	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 68260	RunNo: 88994								
Prep Date: 6/21/2022	Analysis Date: 6/23/2022	SeqNo: 3160387	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	106	72.3	137			
Surr: BFB	2100		1000		213	37.7	212			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 Quantitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 14 of 23

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

WO#: 2206A08

20-Jul-22

Client: Animas Environmental Services**Project:** BMG Landfarm TZ Soil Samples

Sample ID: MB-68309	SampType: MBLK	TestCode: EPA Method 8082A: PCB's								
Client ID: PBS	Batch ID: 68309	RunNo: 89075								
Prep Date: 6/23/2022	Analysis Date: 6/28/2022	SeqNo: 3164308 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.025								
Aroclor 1221	ND	0.025								
Aroclor 1232	ND	0.025								
Aroclor 1242	ND	0.025								
Aroclor 1248	ND	0.025								
Aroclor 1254	ND	0.025								
Aroclor 1260	ND	0.025								
Surr: Decachlorobiphenyl	0.056		0.06250		88.8	47.2	115			
Surr: Tetrachloro-m-xylene	0.054		0.06250		85.6	15	110			

Sample ID: LCS-68309	SampType: LCS	TestCode: EPA Method 8082A: PCB's								
Client ID: LCSS	Batch ID: 68309	RunNo: 89075								
Prep Date: 6/23/2022	Analysis Date: 6/28/2022	SeqNo: 3164309 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	0.13	0.025	0.1250	0	103	22.5	119			
Aroclor 1260	0.12	0.025	0.1250	0	96.7	26.6	142			
Surr: Decachlorobiphenyl	0.052		0.06250		83.2	47.2	115			
Surr: Tetrachloro-m-xylene	0.051		0.06250		81.2	15	110			

Sample ID: LCSD-68309	SampType: LCSD	TestCode: EPA Method 8082A: PCB's								
Client ID: LCSS02	Batch ID: 68309	RunNo: 89075								
Prep Date: 6/23/2022	Analysis Date: 6/28/2022	SeqNo: 3164310 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	0.13	0.025	0.1250	0	107	22.5	119	3.92	20	
Aroclor 1260	0.12	0.025	0.1250	0	100	26.6	142	3.33	20	
Surr: Decachlorobiphenyl	0.056		0.06250		88.8	47.2	115	0	0	
Surr: Tetrachloro-m-xylene	0.054		0.06250		85.6	15	110	0	0	

Sample ID: MB-68309	SampType: MBLK	TestCode: EPA Method 8082A: PCB's								
Client ID: PBS	Batch ID: 68309	RunNo: 89075								
Prep Date: 6/23/2022	Analysis Date: 6/28/2022	SeqNo: 3164311 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.025								
Aroclor 1221	ND	0.025								
Aroclor 1232	ND	0.025								
Aroclor 1242	ND	0.025								
Aroclor 1248	ND	0.025								

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2206A08

20-Jul-22

Client: Animas Environmental Services

Project: BMG Landfarm TZ Soil Samples

Sample ID: MB-68309		SampType: MBLK			TestCode: EPA Method 8082A: PCB's					
Client ID: PBS		Batch ID: 68309			RunNo: 89075					
Prep Date: 6/23/2022		Analysis Date: 6/28/2022			SeqNo: 3164311		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1254	ND	0.025								
Aroclor 1260	ND	0.025								
Surr: Decachlorobiphenyl	0.058		0.06250		93.2	47.2	115			
Surr: Tetrachloro-m-xylene	0.054		0.06250		86.0	15	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 Quantitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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

WO#: 2206A08

20-Jul-22

Client: Animas Environmental Services**Project:** BMG Landfarm TZ Soil Samples

Sample ID: 100ng lcs4	SampType: LCS4	TestCode: EPA Method 8260B: Volatiles								
Client ID: BatchQC	Batch ID: S89038	RunNo: 89038								
Prep Date:	Analysis Date: 6/24/2022	SeqNo: 3162433	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	0.54		0.5000		108	70	130			
Surr: 1,2-Dichloroethane-d4	0.52		0.5000		104	70	130			
Surr: Toluene-d8	0.50		0.5000		100	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		98.1	70	130			

Sample ID: 2206a08-001ams	SampType: MS	TestCode: EPA Method 8260B: Volatiles								
Client ID: Cell #2 TZ CS-1	Batch ID: 68260	RunNo: 89038								
Prep Date: 6/21/2022	Analysis Date: 6/25/2022	SeqNo: 3162435	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.024	0.9794	0.01122	103	67.7	135			
Toluene	1.0	0.049	0.9794	0.02733	101	70	130			
Chlorobenzene	0.99	0.049	0.9794	0	102	70	130			
1,1-Dichloroethene	0.89	0.049	0.9794	0	90.8	38.5	142			
Trichloroethene (TCE)	1.0	0.049	0.9794	0	103	64.7	129			
Surr: Dibromofluoromethane	0.54		0.4897		110	70	130			
Surr: 1,2-Dichloroethane-d4	0.53		0.4897		107	70	130			
Surr: Toluene-d8	0.49		0.4897		99.3	70	130			
Surr: 4-Bromofluorobenzene	0.51		0.4897		104	70	130			

Sample ID: 2206a08-001amsd	SampType: MSD	TestCode: EPA Method 8260B: Volatiles								
Client ID: Cell #2 TZ CS-1	Batch ID: 68260	RunNo: 89038								
Prep Date: 6/21/2022	Analysis Date: 6/25/2022	SeqNo: 3162436	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.024	0.9747	0.01122	100	67.7	135	3.46	20	
Toluene	1.0	0.049	0.9747	0.02733	99.3	70	130	1.98	20	
Chlorobenzene	1.0	0.049	0.9747	0	103	70	130	0.798	20	
1,1-Dichloroethene	0.84	0.049	0.9747	0	86.5	38.5	142	5.25	20	
Trichloroethene (TCE)	0.94	0.049	0.9747	0	96.8	64.7	129	6.38	20	
Surr: Dibromofluoromethane	0.53		0.4873		109	70	130	0	0	
Surr: 1,2-Dichloroethane-d4	0.52		0.4873		107	70	130	0	0	
Surr: Toluene-d8	0.48		0.4873		98.3	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.50		0.4873		102	70	130	0	0	

Sample ID: lcs-68260	SampType: LCS	TestCode: EPA Method 8260B: Volatiles								
Client ID: LCSS	Batch ID: 68260	RunNo: 89038								
Prep Date: 6/21/2022	Analysis Date: 6/25/2022	SeqNo: 3162449	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

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

WO#: 2206A08

20-Jul-22

Client: Animas Environmental Services**Project:** BMG Landfarm TZ Soil Samples

Sample ID: Ics-68260	SampType: LCS			TestCode: EPA Method 8260B: Volatiles						
Client ID: LCSS	Batch ID: 68260			RunNo: 89038						
Prep Date: 6/21/2022	Analysis Date: 6/25/2022			SeqNo: 3162449		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	113	70	130			
Toluene	1.1	0.050	1.000	0	108	70	130			
Chlorobenzene	1.1	0.050	1.000	0	113	70	130			
1,1-Dichloroethene	1.0	0.050	1.000	0	104	70	130			
Trichloroethene (TCE)	1.1	0.050	1.000	0	111	70	130			
Surr: Dibromofluoromethane	0.57		0.5000		113	70	130			
Surr: 1,2-Dichloroethane-d4	0.54		0.5000		108	70	130			
Surr: Toluene-d8	0.50		0.5000		99.3	70	130			
Surr: 4-Bromofluorobenzene	0.52		0.5000		103	70	130			

Sample ID: mb	SampType: MBLK			TestCode: EPA Method 8260B: Volatiles						
Client ID: PBS	Batch ID: S89038			RunNo: 89038						
Prep Date:	Analysis Date: 6/24/2022			SeqNo: 3162450		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	0.56		0.5000		111	70	130			
Surr: 1,2-Dichloroethane-d4	0.56		0.5000		112	70	130			
Surr: Toluene-d8	0.52		0.5000		104	70	130			
Surr: 4-Bromofluorobenzene	0.55		0.5000		109	70	130			

Sample ID: mb-68260	SampType: MBLK			TestCode: EPA Method 8260B: Volatiles						
Client ID: PBS	Batch ID: 68260			RunNo: 89038						
Prep Date: 6/21/2022	Analysis Date: 6/25/2022			SeqNo: 3162451		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Methyl tert-butyl ether (MTBE)	ND	0.050								
1,2,4-Trimethylbenzene	ND	0.050								
1,3,5-Trimethylbenzene	ND	0.050								
1,2-Dichloroethane (EDC)	ND	0.050								
1,2-Dibromoethane (EDB)	ND	0.050								
Naphthalene	ND	0.10								
1-Methylnaphthalene	ND	0.20								
2-Methylnaphthalene	ND	0.20								
Acetone	ND	0.75								
Bromobenzene	ND	0.050								
Bromodichloromethane	ND	0.050								
Bromoform	ND	0.050								

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2206A08

20-Jul-22

Client: Animas Environmental Services

Project: BMG Landfarm TZ Soil Samples

Sample ID: mb-68260	SampType: MBLK			TestCode: EPA Method 8260B: Volatiles						
Client ID: PBS	Batch ID: 68260			RunNo: 89038						
Prep Date: 6/21/2022	Analysis Date: 6/25/2022			SeqNo: 3162451	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromomethane	ND	0.15								
2-Butanone	ND	0.50								
Carbon disulfide	ND	0.50								
Carbon tetrachloride	ND	0.050								
Chlorobenzene	ND	0.050								
Chloroethane	ND	0.10								
Chloroform	ND	0.050								
Chloromethane	ND	0.15								
2-Chlorotoluene	ND	0.050								
4-Chlorotoluene	ND	0.050								
cis-1,2-DCE	ND	0.050								
cis-1,3-Dichloropropene	ND	0.050								
1,2-Dibromo-3-chloropropane	ND	0.10								
Dibromochloromethane	ND	0.050								
Dibromomethane	ND	0.050								
1,2-Dichlorobenzene	ND	0.050								
1,3-Dichlorobenzene	ND	0.050								
1,4-Dichlorobenzene	ND	0.050								
Dichlorodifluoromethane	ND	0.050								
1,1-Dichloroethane	ND	0.050								
1,1-Dichloroethene	ND	0.050								
1,2-Dichloropropane	ND	0.050								
1,3-Dichloropropane	ND	0.050								
2,2-Dichloropropane	ND	0.10								
1,1-Dichloropropene	ND	0.10								
Hexachlorobutadiene	ND	0.10								
2-Hexanone	ND	0.50								
Isopropylbenzene	ND	0.050								
4-Isopropyltoluene	ND	0.050								
4-Methyl-2-pentanone	ND	0.50								
Methylene chloride	ND	0.15								
n-Butylbenzene	ND	0.15								
n-Propylbenzene	ND	0.050								
sec-Butylbenzene	ND	0.050								
Styrene	ND	0.050								
tert-Butylbenzene	ND	0.050								
1,1,1,2-Tetrachloroethane	ND	0.050								
1,1,2,2-Tetrachloroethane	ND	0.050								
Tetrachloroethene (PCE)	ND	0.050								

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2206A08

20-Jul-22

Client: Animas Environmental Services

Project: BMG Landfarm TZ Soil Samples

Sample ID: mb-68260	SampType: MBLK		TestCode: EPA Method 8260B: Volatiles							
Client ID: PBS	Batch ID: 68260		RunNo: 89038							
Prep Date: 6/21/2022	Analysis Date: 6/25/2022		SeqNo: 3162451		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
trans-1,2-DCE	ND	0.050								
trans-1,3-Dichloropropene	ND	0.050								
1,2,3-Trichlorobenzene	ND	0.10								
1,2,4-Trichlorobenzene	ND	0.050								
1,1,1-Trichloroethane	ND	0.050								
1,1,2-Trichloroethane	ND	0.050								
Trichloroethene (TCE)	ND	0.050								
Trichlorofluoromethane	ND	0.050								
1,2,3-Trichloropropane	ND	0.10								
Vinyl chloride	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: Dibromofluoromethane	0.55		0.5000		110	70	130			
Surr: 1,2-Dichloroethane-d4	0.54		0.5000		109	70	130			
Surr: Toluene-d8	0.51		0.5000		101	70	130			
Surr: 4-Bromofluorobenzene	0.51		0.5000		103	70	130			

Qualifiers:

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

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

WO#: 2206A08

20-Jul-22

Client: Animas Environmental Services
Project: BMG Landfarm TZ Soil Samples

Sample ID: mb-68450	SampType: MBLK	TestCode: SW8270C								
Client ID: PBS	Batch ID: 68450	RunNo: 89584								
Prep Date: 6/29/2022	Analysis Date: 7/18/2022	SeqNo: 3189044	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	ND	0.010								
1-Methylnaphthalene	ND	0.010								
2-Methylnaphthalene	ND	0.010								
Benzo(a)pyrene	ND	0.020								
Surr: Nitrobenzene-d5	0.024		0.06660		36.5	0	0			S
Surr: 2,4,6-Tribromophenol	0.041		0.1333		30.5	0	0			S
Surr: 2-Fluorobiphenyl	0.032		0.06660		47.5	0	0			S
Surr: 4-Terphenyl-d14	0.051		0.06660		77.1	0	0			S

Sample ID: lcs-68450	SampType: LCS	TestCode: SW8270C								
Client ID: LCSS	Batch ID: 68450	RunNo: 89584								
Prep Date: 6/29/2022	Analysis Date: 7/18/2022	SeqNo: 3189045	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	0.018	0.010	0.03333	0	55.0	70	130			S
1-Methylnaphthalene	0.021	0.010	0.03333	0	62.0	70	130			S
2-Methylnaphthalene	0.021	0.010	0.03333	0	63.0	70	130			S
Benzo(a)pyrene	0.031	0.020	0.03333	0	92.0	70	130			
Surr: Nitrobenzene-d5	0.054		0.06660		81.6	70	130			
Surr: 2,4,6-Tribromophenol	0.12		0.1333		89.8	70	130			
Surr: 2-Fluorobiphenyl	0.069		0.06660		104	70	130			
Surr: 4-Terphenyl-d14	0.096		0.06660		144	70	130			S

Qualifiers:

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

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

WO#: 2206A08

20-Jul-22

Client: Animas Environmental Services
Project: BMG Landfarm TZ Soil Samples

Sample ID: MB-68280	SampType: MBLK	TestCode: EPA Method 7471B: Mercury								
Client ID: PBS	Batch ID: 68280	RunNo: 88946								
Prep Date: 6/22/2022	Analysis Date: 6/22/2022	SeqNo: 3158670 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.033								

Sample ID: LCSLL-68280	SampType: LCSLL	TestCode: EPA Method 7471B: Mercury								
Client ID: BatchQC	Batch ID: 68280	RunNo: 88946								
Prep Date: 6/22/2022	Analysis Date: 6/22/2022	SeqNo: 3158671 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.033	0.006660	0	91.2	70	130			

Sample ID: LCS-68280	SampType: LCS	TestCode: EPA Method 7471B: Mercury								
Client ID: LCSS	Batch ID: 68280	RunNo: 88946								
Prep Date: 6/22/2022	Analysis Date: 6/22/2022	SeqNo: 3158672 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.17	0.033	0.1667	0	99.8	80	120			

Qualifiers:

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

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

WO#: 2206A08

20-Jul-22

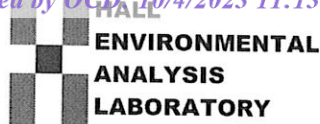
Client: Animas Environmental Services**Project:** BMG Landfarm TZ Soil Samples

Sample ID: MB-68263	SampType: MBLK	TestCode: EPA Method 6010B: Soil Metals								
Client ID: PBS	Batch ID: 68263	RunNo: 89031								
Prep Date: 6/21/2022	Analysis Date: 6/24/2022	SeqNo: 3161939	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.10								
Beryllium	ND	0.15								
Cadmium	ND	0.10								
Chromium	ND	0.30								
Copper	ND	2.0								
Iron	ND	10								
Manganese	ND	0.20								
Silver	ND	0.50								
Zinc	ND	2.5								

Sample ID: LCS-68263	SampType: LCS	TestCode: EPA Method 6010B: Soil Metals								
Client ID: LCSS	Batch ID: 68263	RunNo: 89031								
Prep Date: 6/21/2022	Analysis Date: 6/24/2022	SeqNo: 3161941	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	24	0.10	25.00	0	94.8	80	120			
Beryllium	26	0.15	25.00	0	102	80	120			
Cadmium	24	0.10	25.00	0	95.5	80	120			
Chromium	24	0.30	25.00	0	96.0	80	120			
Copper	26	2.0	25.00	0	104	80	120			
Iron	24	10	25.00	0	94.9	80	120			
Manganese	23	0.20	25.00	0	94.0	80	120			
Silver	5.0	0.50	5.000	0	101	80	120			
Zinc	24	2.5	25.00	0	95.8	80	120			

Qualifiers:

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



Sample Log-In Check List

Client Name: Animas Environmental Services

Work Order Number: 2206A08

RcptNo: 1

Received By: Isaiah Ortiz

6/18/2022 9:50:00 AM

I-Ox

Completed By: Sean Livingston

6/20/2022 10:11:07 AM

S-Lytle

Reviewed By:

in 6/20/22

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: KPA 6.20.22

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

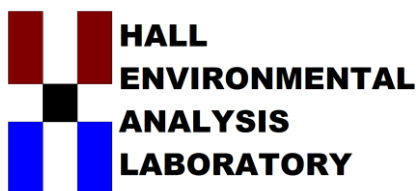
16. Additional remarks: Cut from ziploc for 3.802 jars for samples -

17. Cooler Information

001-002 - KPA 6.20.22

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.8	Good				

(a)	— Antimony (Sb) (CAS 7440-36-0).....	0.006 mg/l	
(b)	— Arsenic (As) (CAS 7440-38-2).....	0.01 mg/l	
(c)	— Barium (Ba) (CAS 7440-39-3).....	2 mg/l	
(d)	— Beryllium (be) (CAS 7440-41-7).....	0.004 mg/l	
(e)	— Cadmium (Cd) (CAS 7440-43-9).....	0.005 mg/l	
(f)	— Chromium (Cr) (CAS 7440-47-3).....	0.05 mg/l	
(g)	— Cyanide (CN) (CAS 57-12-5).....	0.2 mg/l	~ PA TN
(h)	— Fluoride (F) (CAS 16984-48-8).....	1.6 mg/l	
(i)	— Lead (Pb) (CAS 7439-92-1).....	0.015 mg/l	
(j)	— Total Mercury (Hg) (CAS 7439-97-6).....	0.002 mg/l	
(k)	— Nitrate (NO ₃ as N) (CAS 14797-55-8).....	10.0 mg/l	
(l)	— Nitrite (NO ₂ as N) (CAS 10102-44-0).....	1.0 mg/l	
(m)	— Selenium (Se) (CAS 7782-49-2).....	0.05 mg/l	
(n)	— Silver (Ag) (CAS 7440-224).....	0.05 mg/l	
(o)	— Thallium (Tl) (CAS 7440-28-0).....	0.002 mg/l	
(p)	— Uranium (U) (CAS 7440-61-1).....	0.03 mg/l	
(q)	— Radioactivity: Combined Radium-226 (CAS 13982-63-3) and Radium-228 (CAS 13982-63-3).....	0.005 mg/l	PA 6 ren
(r)	— Benzene (CAS 71-43-2).....	0.0005 mg/l	
(s)	— Polychlorinated biphenyls (PCB's) (CAS 1336-36-3).....	0.0005 mg/l	
(t)	— Toluene (CAS 108-88-3).....	1 mg/l	
(u)	— Carbon Tetrachloride (CAS 56-23-5).....	0.005 mg/l	
(v)	— 1,2-dichloroethane (EDC) (CAS 107-06-2).....	0.005 mg/l	
(w)	— 1,1-dichloroethylene (1,1-DCE) (CAS 75-35-4).....	0.007 mg/l	
(x)	— tetrachloroethylene (PCE) (CAS 127-18-4).....	0.005 mg/l	
(y)	— trichloroethylene (TCE) (CAS 79-01-6).....	0.005 mg/l	
(z)	— ethylbenzene (CAS 100-41-4).....	0.7 mg/l	
(aa)	— total xylenes (CAS 1330-20-7).....	0.62 mg/l	
(bb)	— methylene chloride (CAS 75-09-2).....	0.005 mg/l	
(cc)	— chloroform (CAS 67-66-3).....	0.1 mg/l	
(dd)	— 1,1-dichloroethane (CAS 75-34-3).....	0.025 mg/l	
(ee)	— ethylene dibromide (EDB) (CAS 106-93-4).....	0.00005 mg/l	
(ff)	— 1,1,1-trichloroethane (CAS 71-55-6).....	0.2 mg/l	
(gg)	— 1,1,2-trichloroethane (CAS 79-00-5).....	0.005 mg/l	
(hh)	— 1,1,2,2-tetrachloroethane (CAS 79-34-5).....	0.01 mg/l	
(ii)	— vinyl chloride (CAS 75-01-4).....	0.002 mg/l	
(jj)	— PAHs: total naphthalene (CAS 91-20-3) plus monomethylnaphthalenes	0.03 mg/l	
(kk)	— benzo-a-pyrene (CAS 50-32-8).....	0.0002 mg/l	
(ll)	— cis-1,2-dichloroethene (CAS 156-59-2).....	0.07 mg/l	
(mm)	— trans-1,2-dichloroethene (CAS 156-60-5).....	0.1 mg/l	
(nn)	— 1,2-dichloropropane (PDC) (CAS 78-87-5).....	0.005 mg/l	
(oo)	— styrene (CAS 100-42-5).....	0.1 mg/l	
(pp)	— 1,2-dichlorobenzene (CAS 95-50-1).....	0.6 mg/l	
(qq)	— 1,4-dichlorobenzene (CAS 106-46-7).....	0.075 mg/l	
(rr)	— 1,2,4-trichlorobenzene (CAS 120-82-1).....	0.07 mg/l	



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

July 08, 2022

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

RE: BMG Landfarm VZ Soil Samples

OrderNo.: 2206A01

Dear Angela Ledgerwood:

Hall Environmental Analysis Laboratory received 16 sample(s) on 6/18/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2206A01

Date Reported: 7/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #1 VZ S-1

Project: BMG Landfarm VZ Soil Samples

Collection Date: 6/15/2022 10:11:00 AM

Lab ID: 2206A01-001

Matrix: SOIL

Received Date: 6/18/2022 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH							Analyst: JME
Petroleum Hydrocarbons, TR	ND	18		mg/Kg	1	6/22/2022	68253
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/24/2022 12:59:00 AM	68259
Toluene	ND	0.050		mg/Kg	1	6/24/2022 12:59:00 AM	68259
Ethylbenzene	ND	0.050		mg/Kg	1	6/24/2022 12:59:00 AM	68259
Xylenes, Total	ND	0.10		mg/Kg	1	6/24/2022 12:59:00 AM	68259
Surr: 4-Bromofluorobenzene	87.5	70-130		%Rec	1	6/24/2022 12:59:00 AM	68259

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

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

Page 1 of 19

Analytical Report

Lab Order 2206A01

Date Reported: 7/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #1 VZ S-2

Project: BMG Landfarm VZ Soil Samples

Collection Date: 6/15/2022 10:25:00 AM

Lab ID: 2206A01-002

Matrix: SOIL

Received Date: 6/18/2022 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH							Analyst: JME
Petroleum Hydrocarbons, TR	ND	19		mg/Kg	1	6/22/2022	68253
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/24/2022 1:19:00 AM	68259
Toluene	ND	0.048		mg/Kg	1	6/24/2022 1:19:00 AM	68259
Ethylbenzene	ND	0.048		mg/Kg	1	6/24/2022 1:19:00 AM	68259
Xylenes, Total	ND	0.097		mg/Kg	1	6/24/2022 1:19:00 AM	68259
Surr: 4-Bromofluorobenzene	84.9	70-130		%Rec	1	6/24/2022 1:19:00 AM	68259

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

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

Page 2 of 19

Analytical Report

Lab Order 2206A01

Date Reported: 7/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #1 VZ S-3

Project: BMG Landfarm VZ Soil Samples

Collection Date: 6/15/2022 10:45:00 AM

Lab ID: 2206A01-003

Matrix: SOIL

Received Date: 6/18/2022 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH							Analyst: JME
Petroleum Hydrocarbons, TR	ND	18		mg/Kg	1	6/22/2022	68253
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/24/2022 1:38:00 AM	68259
Toluene	ND	0.050		mg/Kg	1	6/24/2022 1:38:00 AM	68259
Ethylbenzene	ND	0.050		mg/Kg	1	6/24/2022 1:38:00 AM	68259
Xylenes, Total	ND	0.10		mg/Kg	1	6/24/2022 1:38:00 AM	68259
Surr: 4-Bromofluorobenzene	86.3	70-130		%Rec	1	6/24/2022 1:38:00 AM	68259

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

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

Page 3 of 19

Analytical Report

Lab Order 2206A01

Date Reported: 7/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #1 VZ S-4

Project: BMG Landfarm VZ Soil Samples

Collection Date: 6/15/2022 10:58:00 AM

Lab ID: 2206A01-004

Matrix: SOIL

Received Date: 6/18/2022 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH							Analyst: JME
Petroleum Hydrocarbons, TR	ND	19		mg/Kg	1	6/22/2022	68253
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/24/2022 1:58:00 AM	68259
Toluene	ND	0.050		mg/Kg	1	6/24/2022 1:58:00 AM	68259
Ethylbenzene	ND	0.050		mg/Kg	1	6/24/2022 1:58:00 AM	68259
Xylenes, Total	ND	0.10		mg/Kg	1	6/24/2022 1:58:00 AM	68259
Surr: 4-Bromofluorobenzene	87.9	70-130		%Rec	1	6/24/2022 1:58:00 AM	68259

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

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

Page 4 of 19

Analytical Report

Lab Order 2206A01

Date Reported: 7/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #2 VZ S-1

Project: BMG Landfarm VZ Soil Samples

Collection Date: 6/15/2022 11:11:00 AM

Lab ID: 2206A01-005

Matrix: SOIL

Received Date: 6/18/2022 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH							Analyst: JME
Petroleum Hydrocarbons, TR	71	20		mg/Kg	1	6/22/2022	68253
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/24/2022 2:18:00 AM	68259
Toluene	ND	0.050		mg/Kg	1	6/24/2022 2:18:00 AM	68259
Ethylbenzene	ND	0.050		mg/Kg	1	6/24/2022 2:18:00 AM	68259
Xylenes, Total	ND	0.10		mg/Kg	1	6/24/2022 2:18:00 AM	68259
Surr: 4-Bromofluorobenzene	85.7	70-130		%Rec	1	6/24/2022 2:18:00 AM	68259

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

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

Page 5 of 19

Analytical Report

Lab Order 2206A01

Date Reported: 7/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #2 VZ S-2

Project: BMG Landfarm VZ Soil Samples

Collection Date: 6/15/2022 11:26:00 AM

Lab ID: 2206A01-006

Matrix: SOIL

Received Date: 6/18/2022 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH							Analyst: JME
Petroleum Hydrocarbons, TR	ND	18		mg/Kg	1	6/22/2022	68253
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/24/2022 2:38:00 AM	68259
Toluene	ND	0.050		mg/Kg	1	6/24/2022 2:38:00 AM	68259
Ethylbenzene	ND	0.050		mg/Kg	1	6/24/2022 2:38:00 AM	68259
Xylenes, Total	ND	0.099		mg/Kg	1	6/24/2022 2:38:00 AM	68259
Surr: 4-Bromofluorobenzene	86.2	70-130		%Rec	1	6/24/2022 2:38:00 AM	68259

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

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

Page 6 of 19

Analytical Report

Lab Order 2206A01

Date Reported: 7/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #2 VZ S-3

Project: BMG Landfarm VZ Soil Samples

Collection Date: 6/15/2022 11:39:00 AM

Lab ID: 2206A01-007

Matrix: SOIL

Received Date: 6/18/2022 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH							Analyst: JME
Petroleum Hydrocarbons, TR	ND	17		mg/Kg	1	6/22/2022	68253
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/24/2022 2:58:00 AM	68259
Toluene	ND	0.049		mg/Kg	1	6/24/2022 2:58:00 AM	68259
Ethylbenzene	ND	0.049		mg/Kg	1	6/24/2022 2:58:00 AM	68259
Xylenes, Total	ND	0.098		mg/Kg	1	6/24/2022 2:58:00 AM	68259
Surr: 4-Bromofluorobenzene	86.7	70-130		%Rec	1	6/24/2022 2:58:00 AM	68259

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

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

Page 7 of 19

Analytical Report

Lab Order 2206A01

Date Reported: 7/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #2 VZ S-4

Project: BMG Landfarm VZ Soil Samples

Collection Date: 6/15/2022 11:56:00 AM

Lab ID: 2206A01-008

Matrix: SOIL

Received Date: 6/18/2022 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH							Analyst: JME
Petroleum Hydrocarbons, TR	ND	18		mg/Kg	1	6/22/2022	68253
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/24/2022 3:17:00 AM	68259
Toluene	ND	0.049		mg/Kg	1	6/24/2022 3:17:00 AM	68259
Ethylbenzene	ND	0.049		mg/Kg	1	6/24/2022 3:17:00 AM	68259
Xylenes, Total	ND	0.098		mg/Kg	1	6/24/2022 3:17:00 AM	68259
Surr: 4-Bromofluorobenzene	86.4	70-130		%Rec	1	6/24/2022 3:17:00 AM	68259

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

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

Page 8 of 19

Analytical Report

Lab Order 2206A01

Date Reported: 7/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #3 VZ S-1

Project: BMG Landfarm VZ Soil Samples

Collection Date: 6/15/2022 12:12:00 PM

Lab ID: 2206A01-009

Matrix: SOIL

Received Date: 6/18/2022 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH							Analyst: JME
Petroleum Hydrocarbons, TR	ND	17		mg/Kg	1	6/22/2022	68253
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/24/2022 3:37:00 AM	68259
Toluene	ND	0.049		mg/Kg	1	6/24/2022 3:37:00 AM	68259
Ethylbenzene	ND	0.049		mg/Kg	1	6/24/2022 3:37:00 AM	68259
Xylenes, Total	ND	0.097		mg/Kg	1	6/24/2022 3:37:00 AM	68259
Surr: 4-Bromofluorobenzene	84.8	70-130		%Rec	1	6/24/2022 3:37:00 AM	68259

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

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

Page 9 of 19

Analytical Report

Lab Order 2206A01

Date Reported: 7/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #3 VZ S-2

Project: BMG Landfarm VZ Soil Samples

Collection Date: 6/15/2022 12:27:00 PM

Lab ID: 2206A01-010

Matrix: SOIL

Received Date: 6/18/2022 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH							Analyst: JME
Petroleum Hydrocarbons, TR	ND	17		mg/Kg	1	6/22/2022	68253
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/23/2022 10:36:06 PM	68260
Toluene	ND	0.049		mg/Kg	1	6/23/2022 10:36:06 PM	68260
Ethylbenzene	ND	0.049		mg/Kg	1	6/23/2022 10:36:06 PM	68260
Xylenes, Total	ND	0.099		mg/Kg	1	6/23/2022 10:36:06 PM	68260
Surr: 4-Bromofluorobenzene	92.6	70-130		%Rec	1	6/23/2022 10:36:06 PM	68260

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

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

Page 10 of 19

Analytical Report

Lab Order 2206A01

Date Reported: 7/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #3 VZ S-3

Project: BMG Landfarm VZ Soil Samples

Collection Date: 6/15/2022 12:45:00 PM

Lab ID: 2206A01-011

Matrix: SOIL

Received Date: 6/18/2022 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH							Analyst: JME
Petroleum Hydrocarbons, TR	ND	19		mg/Kg	1	6/22/2022	68253
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	6/23/2022 11:47:01 PM	68260
Toluene	ND	0.046		mg/Kg	1	6/23/2022 11:47:01 PM	68260
Ethylbenzene	ND	0.046		mg/Kg	1	6/23/2022 11:47:01 PM	68260
Xylenes, Total	ND	0.093		mg/Kg	1	6/23/2022 11:47:01 PM	68260
Surr: 4-Bromofluorobenzene	93.6	70-130		%Rec	1	6/23/2022 11:47:01 PM	68260

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

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

Page 11 of 19

Analytical Report

Lab Order 2206A01

Date Reported: 7/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #3 VZ S-4

Project: BMG Landfarm VZ Soil Samples

Collection Date: 6/15/2022 1:01:00 PM

Lab ID: 2206A01-012

Matrix: SOIL

Received Date: 6/18/2022 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH							Analyst: JME
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	6/22/2022	68253
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/24/2022 12:10:37 AM	68260
Toluene	ND	0.049		mg/Kg	1	6/24/2022 12:10:37 AM	68260
Ethylbenzene	ND	0.049		mg/Kg	1	6/24/2022 12:10:37 AM	68260
Xylenes, Total	ND	0.099		mg/Kg	1	6/24/2022 12:10:37 AM	68260
Surr: 4-Bromofluorobenzene	92.9	70-130		%Rec	1	6/24/2022 12:10:37 AM	68260

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

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

Page 12 of 19

Analytical Report

Lab Order 2206A01

Date Reported: 7/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #4 VZ S-1

Project: BMG Landfarm VZ Soil Samples

Collection Date: 6/15/2022 1:20:00 PM

Lab ID: 2206A01-013

Matrix: SOIL

Received Date: 6/18/2022 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH							Analyst: JME
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	6/22/2022	68253
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	6/24/2022 12:34:07 AM	68260
Toluene	ND	0.046		mg/Kg	1	6/24/2022 12:34:07 AM	68260
Ethylbenzene	ND	0.046		mg/Kg	1	6/24/2022 12:34:07 AM	68260
Xylenes, Total	ND	0.092		mg/Kg	1	6/24/2022 12:34:07 AM	68260
Surr: 4-Bromofluorobenzene	89.6	70-130		%Rec	1	6/24/2022 12:34:07 AM	68260

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

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

Page 13 of 19

Analytical Report

Lab Order 2206A01

Date Reported: 7/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #4 VZ S-2

Project: BMG Landfarm VZ Soil Samples

Collection Date: 6/15/2022 1:36:00 PM

Lab ID: 2206A01-014

Matrix: SOIL

Received Date: 6/18/2022 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH							Analyst: JME
Petroleum Hydrocarbons, TR	ND	19		mg/Kg	1	6/22/2022	68253
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/24/2022 12:57:48 AM	68260
Toluene	ND	0.050		mg/Kg	1	6/24/2022 12:57:48 AM	68260
Ethylbenzene	ND	0.050		mg/Kg	1	6/24/2022 12:57:48 AM	68260
Xylenes, Total	ND	0.10		mg/Kg	1	6/24/2022 12:57:48 AM	68260
Surr: 4-Bromofluorobenzene	93.9	70-130		%Rec	1	6/24/2022 12:57:48 AM	68260

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

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

Page 14 of 19

Analytical Report

Lab Order 2206A01

Date Reported: 7/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #4 VZ S-3

Project: BMG Landfarm VZ Soil Samples

Collection Date: 6/15/2022 1:51:00 PM

Lab ID: 2206A01-015

Matrix: SOIL

Received Date: 6/18/2022 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH							Analyst: JME
Petroleum Hydrocarbons, TR	ND	17		mg/Kg	1	6/22/2022	68253
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	6/24/2022 1:21:25 AM	68260
Toluene	ND	0.047		mg/Kg	1	6/24/2022 1:21:25 AM	68260
Ethylbenzene	ND	0.047		mg/Kg	1	6/24/2022 1:21:25 AM	68260
Xylenes, Total	ND	0.093		mg/Kg	1	6/24/2022 1:21:25 AM	68260
Surr: 4-Bromofluorobenzene	90.6	70-130		%Rec	1	6/24/2022 1:21:25 AM	68260

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

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

Page 15 of 19

Analytical Report

Lab Order 2206A01

Date Reported: 7/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #4 VZ S-4

Project: BMG Landfarm VZ Soil Samples

Collection Date: 6/15/2022 2:02:00 PM

Lab ID: 2206A01-016

Matrix: SOIL

Received Date: 6/18/2022 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH							Analyst: JME
Petroleum Hydrocarbons, TR	ND	17		mg/Kg	1	6/22/2022	68253
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/24/2022 1:45:02 AM	68260
Toluene	ND	0.050		mg/Kg	1	6/24/2022 1:45:02 AM	68260
Ethylbenzene	ND	0.050		mg/Kg	1	6/24/2022 1:45:02 AM	68260
Xylenes, Total	ND	0.099		mg/Kg	1	6/24/2022 1:45:02 AM	68260
Surr: 4-Bromofluorobenzene	93.1	70-130		%Rec	1	6/24/2022 1:45:02 AM	68260

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

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

Page 16 of 19

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

WO#: 2206A01

08-Jul-22

Client: Animas Environmental Services
Project: BMG Landfarm VZ Soil Samples

Sample ID: MB-68253	SampType: MBLK			TestCode: EPA Method 418.1: TPH						
Client ID: PBS	Batch ID: 68253			RunNo: 88924						
Prep Date: 6/21/2022	Analysis Date: 6/22/2022			SeqNo: 3158564		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	ND	20								

Sample ID: LCS-68253	SampType: LCS			TestCode: EPA Method 418.1: TPH						
Client ID: LCSS	Batch ID: 68253			RunNo: 88924						
Prep Date: 6/21/2022	Analysis Date: 6/22/2022			SeqNo: 3158565		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	99	20	104.0	0	95.4	80.2	114			

Sample ID: LCSD-68253	SampType: LCSD			TestCode: EPA Method 418.1: TPH						
Client ID: LCSS02	Batch ID: 68253			RunNo: 88924						
Prep Date: 6/21/2022	Analysis Date: 6/22/2022			SeqNo: 3158566		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	98	20	104.0	0	94.2	80.2	114	1.23	20	

Qualifiers:

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

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

WO#: 2206A01

08-Jul-22

Client: Animas Environmental Services**Project:** BMG Landfarm VZ Soil Samples

Sample ID: mb-68260	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 68260			RunNo: 88994						
Prep Date: 6/21/2022	Analysis Date: 6/24/2022			SeqNo: 3160401		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.94		1.000		94.0	70	130			

Sample ID: LCS-68260	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 68260			RunNo: 88994						
Prep Date: 6/21/2022	Analysis Date: 6/23/2022			SeqNo: 3160402		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.025	1.000	0	82.6	80	120			
Toluene	0.87	0.050	1.000	0	86.8	80	120			
Ethylbenzene	0.88	0.050	1.000	0	88.4	80	120			
Xylenes, Total	2.7	0.10	3.000	0	89.4	80	120			
Surr: 4-Bromofluorobenzene	0.95		1.000		94.8	70	130			

Sample ID: 2206a01-010ams	SampType: MS			TestCode: EPA Method 8021B: Volatiles						
Client ID: Cell #3 VZ S-2	Batch ID: 68260			RunNo: 88994						
Prep Date: 6/21/2022	Analysis Date: 6/23/2022			SeqNo: 3160408		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.77	0.025	0.9843	0	78.2	68.8	120			
Toluene	0.82	0.049	0.9843	0	83.0	73.6	124			
Ethylbenzene	0.83	0.049	0.9843	0	84.7	72.7	129			
Xylenes, Total	2.5	0.098	2.953	0	84.9	75.7	126			
Surr: 4-Bromofluorobenzene	0.93		0.9843		94.3	70	130			

Sample ID: 2206a01-010amsd	SampType: MSD			TestCode: EPA Method 8021B: Volatiles						
Client ID: Cell #3 VZ S-2	Batch ID: 68260			RunNo: 88994						
Prep Date: 6/21/2022	Analysis Date: 6/23/2022			SeqNo: 3160409		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.79	0.025	0.9833	0	80.7	68.8	120	3.00	20	
Toluene	0.87	0.049	0.9833	0	88.0	73.6	124	5.83	20	
Ethylbenzene	0.88	0.049	0.9833	0	90.0	72.7	129	6.02	20	
Xylenes, Total	2.7	0.098	2.950	0	91.5	75.7	126	7.41	20	
Surr: 4-Bromofluorobenzene	0.93		0.9833		95.0	70	130	0	0	

Qualifiers:

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

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

WO#: 2206A01

08-Jul-22

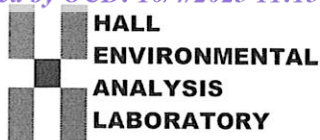
Client: Animas Environmental Services
Project: BMG Landfarm VZ Soil Samples

Sample ID: ics-68259	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 68259			RunNo: 88995						
Prep Date: 6/21/2022	Analysis Date: 6/23/2022			SeqNo: 3160500		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	94.6	80	120			
Toluene	0.96	0.050	1.000	0	95.6	80	120			
Ethylbenzene	0.95	0.050	1.000	0	95.4	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.9	80	120			
Surr: 4-Bromofluorobenzene	0.88		1.000		88.0	70	130			

Sample ID: mb-68259	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 68259			RunNo: 88995						
Prep Date: 6/21/2022	Analysis Date: 6/23/2022			SeqNo: 3160501		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.86		1.000		85.5	70	130			

Qualifiers:

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



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: **2206A01**

RcptNo: 1

Received By: **Isaiah Ortiz**

6/18/2022 9:50:00 AM

Completed By: **Cheyenne Cason**

6/20/2022 7:52:27 AM

Reviewed By:

in 6/20/22

IOX

Chad

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by:

KPG 6.20.22

6.20.22

Special Handling (if applicable)

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

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.8	Good	Yes			

A 3x3 grid with a cross pattern of shaded cells. The top-left, top-right, bottom-left, and bottom-right cells are shaded. The center cell and the four cells adjacent to the center (top, bottom, left, right) are white.

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

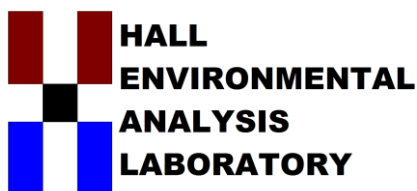
Analyses Request

Chain-of-Custody Record				Turn-Around Time:		
Client: Animas Environmental Services				☒ Standard ☐ Rush		
Mailing Address: P.O. Box 8				Project Name: BMG Landfarm - VZ soil samples		
Farmington, NM 87499-0008				Project #: AES 040605		
Phone #: 720-537-6650				Project Manager: Angela Ledgerwood		
email or Fax#: aledgerwood@animasenvironmental.com				Elizabeth McNally		
QA/QC Package: ☒ Standard ☐ Level 4 (Full Validation)				Sampler: CL/JO		
Accreditation: ☐ Az Compliance ☐ NELAC ☐ Other				On Ice: ☒ Yes ☐ No		
EDD (Type)				# of Coolers: 1		
				Cooler Temp (including CF): 4.8 ± 0		
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
6-15-22	10:11	Soil	Cell #1 VZ S-1	2 - 4 oz jars	Cool	001
	10:25	Soil	Cell #1 VZ S-2	2 - 4 oz jars	Cool	002
	10:45	Soil	Cell #1 VZ S-3	2 - 4 oz jars	Cool	003
	10:58	Soil	Cell #1 VZ S-4	2 - 4 oz jars	Cool	004
	11:11	Soil	Cell #2 VZ S-1	2 - 4 oz jars	Cool	005
	11:26	Soil	Cell #2 VZ S-2	2 - 4 oz jars	Cool	006
	11:39	Soil	Cell #2 VZ S-3	2 - 4 oz jars	Cool	007
	11:56	Soil	Cell #2 VZ S-4	2 - 4 oz jars	Cool	008
	12:12	Soil	Cell #3 VZ S-1	2 - 4 oz jars	Cool	009
	12:27	Soil	Cell #3 VZ S-2	2 - 4 oz jars	Cool	010
	12:45	Soil	Cell #3 VZ S-3	2 - 4 oz jars	Cool	011
	13:01	Soil	Cell #3 VZ S-4	2 - 4 oz jars	Cool	012
	13:20	Soil	Cell #4 VZ S-1	2 - 4 oz jars	Cool	013
	13:36	Soil	Cell #4 VZ S-2	2 - 4 oz jars	Cool	014
	13:51	Soil	Cell #4 VZ S-3	2 - 4 oz jars	Cool	015
	14:02	Soil	Cell #4 VZ S-4	2 - 4 oz jars	Cool	016
Date/Time:	Relinquished by:	Received by:		Via:		Date/Time
6/17/22 1810						6/17/22 1810
Date/Time:	Relinquished by:	Received by:		Via:		Date/Time
6/17/22 1900						6/17/22 0950

[illegible]

Remarks:	Please direct-bill this project to BMG.
----------	---

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



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

June 29, 2022

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

RE: BMG Landfarm MWs and Interstitial Well

OrderNo.: 2206A07

Dear Elizabeth McNally:

Hall Environmental Analysis Laboratory received 4 sample(s) on 6/18/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2206A07

Date Reported: 6/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: MW-1

Project: BMG Landfarm MWs and Interstitial W

Collection Date: 6/16/2022 11:31:00 AM

Lab ID: 2206A07-001

Matrix: GROUNDWA

Received Date: 6/18/2022 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: SB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	6/21/2022 2:28:46 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	6/21/2022 2:28:46 PM
Surr: DNOP	113	43.2-147		%Rec	1	6/21/2022 2:28:46 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	6/22/2022 11:57:00 PM
Surr: BFB	96.8	70-130		%Rec	1	6/22/2022 11:57:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	6/22/2022 11:57:00 PM
Toluene	ND	1.0		µg/L	1	6/22/2022 11:57:00 PM
Ethylbenzene	ND	1.0		µg/L	1	6/22/2022 11:57:00 PM
Xylenes, Total	ND	2.0		µg/L	1	6/22/2022 11:57:00 PM
Surr: 4-Bromofluorobenzene	91.0	70-130		%Rec	1	6/22/2022 11:57:00 PM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	40	2.5		mg/L	5	6/20/2022 5:01:02 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	600	100	*D	mg/L	1	6/24/2022 4:39:00 PM

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

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

Analytical Report

Lab Order 2206A07

Date Reported: 6/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: MW-2

Project: BMG Landfarm MWs and Interstitial W

Collection Date: 6/16/2022 1:20:00 PM

Lab ID: 2206A07-002

Matrix: GROUNDWA

Received Date: 6/18/2022 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: SB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	6/21/2022 2:52:49 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	6/21/2022 2:52:49 PM
Surr: DNOP	117	43.2-147		%Rec	1	6/21/2022 2:52:49 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	6/23/2022 1:07:24 AM
Surr: BFB	95.9	70-130		%Rec	1	6/23/2022 1:07:24 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	6/23/2022 1:07:24 AM
Toluene	ND	1.0		µg/L	1	6/23/2022 1:07:24 AM
Ethylbenzene	ND	1.0		µg/L	1	6/23/2022 1:07:24 AM
Xylenes, Total	ND	2.0		µg/L	1	6/23/2022 1:07:24 AM
Surr: 4-Bromofluorobenzene	92.7	70-130		%Rec	1	6/23/2022 1:07:24 AM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	130	10		mg/L	20	6/20/2022 5:39:40 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	650	100	*D	mg/L	1	6/24/2022 4:39:00 PM

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

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

Analytical Report

Lab Order 2206A07

Date Reported: 6/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: MW-3

Project: BMG Landfarm MWs and Interstitial W

Collection Date: 6/16/2022 12:40:00 PM

Lab ID: 2206A07-003

Matrix: GROUNDWA

Received Date: 6/18/2022 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: SB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	6/21/2022 3:16:53 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	6/21/2022 3:16:53 PM
Surr: DNOP	122	43.2-147		%Rec	1	6/21/2022 3:16:53 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	6/23/2022 1:30:49 AM
Surr: BFB	94.7	70-130		%Rec	1	6/23/2022 1:30:49 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	6/23/2022 1:30:49 AM
Toluene	ND	1.0		µg/L	1	6/23/2022 1:30:49 AM
Ethylbenzene	ND	1.0		µg/L	1	6/23/2022 1:30:49 AM
Xylenes, Total	ND	2.0		µg/L	1	6/23/2022 1:30:49 AM
Surr: 4-Bromofluorobenzene	90.9	70-130		%Rec	1	6/23/2022 1:30:49 AM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	300	10	*	mg/L	20	6/20/2022 6:31:10 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	1040	40.0	*D	mg/L	1	6/24/2022 4:39:00 PM

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

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

Analytical Report

Lab Order 2206A07

Date Reported: 6/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: MW-4

Project: BMG Landfarm MWs and Interstitial W

Collection Date: 6/16/2022 12:10:00 PM

Lab ID: 2206A07-004

Matrix: GROUNDWA

Received Date: 6/18/2022 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: SB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	6/21/2022 3:41:01 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	6/21/2022 3:41:01 PM
Surr: DNOP	122	43.2-147		%Rec	1	6/21/2022 3:41:01 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	6/23/2022 1:54:23 AM
Surr: BFB	94.4	70-130		%Rec	1	6/23/2022 1:54:23 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	6/23/2022 1:54:23 AM
Toluene	ND	1.0		µg/L	1	6/23/2022 1:54:23 AM
Ethylbenzene	ND	1.0		µg/L	1	6/23/2022 1:54:23 AM
Xylenes, Total	ND	2.0		µg/L	1	6/23/2022 1:54:23 AM
Surr: 4-Bromofluorobenzene	90.6	70-130		%Rec	1	6/23/2022 1:54:23 AM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	100	2.5		mg/L	5	6/20/2022 7:09:47 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	720	100	*D	mg/L	1	6/24/2022 4:39:00 PM

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2206A07
29-Jun-22

Client: Animas Environmental Services
Project: BMG Landfarm MWs and Interstitial Well

Sample ID: MB	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBW	Batch ID: R88894	RunNo: 88894								
Prep Date:	Analysis Date: 6/20/2022	SeqNo: 3156374 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID: LCS	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSW	Batch ID: R88894	RunNo: 88894								
Prep Date:	Analysis Date: 6/20/2022	SeqNo: 3156375 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.9	0.50	5.000	0	97.8	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 Quantitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 5 of 9

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

WO#: 2206A07

29-Jun-22

Client: Animas Environmental Services**Project:** BMG Landfarm MWs and Interstitial Well

Sample ID: MB-68254	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range								
Client ID: PBW	Batch ID: 68254	RunNo: 88925								
Prep Date: 6/21/2022	Analysis Date: 6/21/2022	SeqNo: 3158637			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	0.55		0.5000		110	43.2	147			

Sample ID: LCS-68254	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range								
Client ID: LCSW	Batch ID: 68254	RunNo: 88925								
Prep Date: 6/21/2022	Analysis Date: 6/21/2022	SeqNo: 3158639			Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	3.0	1.0	2.500	0	119	70	130			
Surr: DNOP	0.30		0.2500		120	43.2	147			

Sample ID: 2206A07-001BMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range								
Client ID: MW-1	Batch ID: 68254	RunNo: 88925								
Prep Date: 6/21/2022	Analysis Date: 6/21/2022	SeqNo: 3158644			Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	3.0	1.0	2.500	0	121	39.1	140			
Surr: DNOP	0.32		0.2500		126	43.2	147			

Sample ID: 2206A07-001BMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range								
Client ID: MW-1	Batch ID: 68254	RunNo: 88925								
Prep Date: 6/21/2022	Analysis Date: 6/21/2022	SeqNo: 3158645			Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	3.0	1.0	2.500	0	118	39.1	140	2.40	26.4	
Surr: DNOP	0.31		0.2500		122	43.2	147	0	0	

Qualifiers:

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

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

WO#: 2206A07

29-Jun-22

Client: Animas Environmental Services
Project: BMG Landfarm MWs and Interstitial Well

Sample ID: mb-II	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBW	Batch ID: B88935		RunNo: 88935							
Prep Date:	Analysis Date: 6/22/2022		SeqNo: 3158914		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	70	130			

Sample ID: 2.5ug gro lcs-II	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSW	Batch ID: B88935		RunNo: 88935							
Prep Date:	Analysis Date: 6/22/2022		SeqNo: 3158915		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.57	0.050	0.5000	0	114	80	120			
Surr: BFB	40		20.00		201	70	130			S

Sample ID: 2206a07-001ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: MW-1	Batch ID: B88935		RunNo: 88935							
Prep Date:	Analysis Date: 6/23/2022		SeqNo: 3158924		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.51	0.050	0.5000	0	103	70	130			
Surr: BFB	42		20.00		212	70	130			S

Sample ID: 2206a07-001amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: MW-1	Batch ID: B88935		RunNo: 88935							
Prep Date:	Analysis Date: 6/23/2022		SeqNo: 3158925		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.52	0.050	0.5000	0	104	70	130	1.12	20	
Surr: BFB	44		20.00		221	70	130	0	0	S

Qualifiers:

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

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

WO#: 2206A07

29-Jun-22

Client: Animas Environmental Services
Project: BMG Landfarm MWs and Interstitial Well

Sample ID: mb-II	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBW	Batch ID: R88935			RunNo: 88935						
Prep Date:	Analysis Date: 6/22/2022			SeqNo: 3158958		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	18		20.00		92.0	70	130			

Sample ID: 100ng btex lcs-II	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSW	Batch ID: R88935			RunNo: 88935						
Prep Date:	Analysis Date: 6/22/2022			SeqNo: 3158959		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	90.1	80	120			
Toluene	19	1.0	20.00	0	94.0	80	120			
Ethylbenzene	19	1.0	20.00	0	93.3	80	120			
Xylenes, Total	56	2.0	60.00	0	94.0	80	120			
Surr: 4-Bromofluorobenzene	18		20.00		91.3	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2206A07

29-Jun-22

Client: Animas Environmental Services

Project: BMG Landfarm MWs and Interstitial Well

Sample ID: MB-68318	SampType: MBLK	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: PBW	Batch ID: 68318	RunNo: 89021								
Prep Date: 6/23/2022	Analysis Date: 6/24/2022	SeqNo: 3161367		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-68318	SampType: LCS	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: LCSW	Batch ID: 68318	RunNo: 89021								
Prep Date: 6/23/2022	Analysis Date: 6/24/2022	SeqNo: 3161368		Units: mg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1000	20.0	1000	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 Quantitative Limit

S

% Recovery outside of range due to dilution or matrix interference

B

Analyte detected in the associated Method Blank

E

Estimated value

J

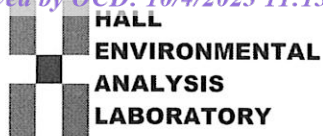
Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit



Hall Environmental Analysis Laboratory
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: 2206A07

RcptNo: 1

Received By: Isaiah Ortiz 6/18/2022 9:50:00 AM

Completed By: Sean Livingston 6/20/2022 8:54:41 AM

Reviewed By: *sn 6/20/22*

I-Ort
Sn Livingston

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☒ No ☐ NA ☐
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels? Yes ☒ No ☐
(Note discrepancies on chain of custody)
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? Yes ☒ No ☐
(If no, notify customer for authorization.)

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: *KSA 6.20.22*

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

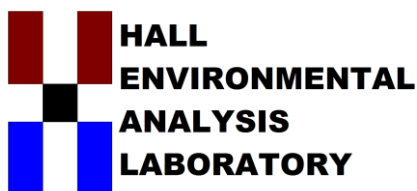
Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.2	Good				



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

October 19, 2022

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

RE: BMG Landfarm VZ Soil Samples

OrderNo.: 2209G13

Dear Angela Ledgerwood:

Hall Environmental Analysis Laboratory received 4 sample(s) on 9/29/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2209G13

Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #1 VZ S-1

Project: BMG Landfarm VZ Soil Samples

Collection Date: 9/27/2022 9:44:00 AM

Lab ID: 2209G13-001

Matrix: SOIL

Received Date: 9/29/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
SW8270C							Analyst: DAM
Naphthalene	ND	0.0097		mg/Kg	1	10/12/2022 10:58:00 PM	70618
1-Methylnaphthalene	ND	0.0097		mg/Kg	1	10/12/2022 10:58:00 PM	70618
2-Methylnaphthalene	ND	0.0097		mg/Kg	1	10/12/2022 10:58:00 PM	70618
Acenaphthylene	ND	0.0097		mg/Kg	1	10/12/2022 10:58:00 PM	70618
Acenaphthene	ND	0.0097		mg/Kg	1	10/12/2022 10:58:00 PM	70618
Fluorene	ND	0.029		mg/Kg	1	10/12/2022 10:58:00 PM	70618
Phenanthrene	ND	0.015		mg/Kg	1	10/12/2022 10:58:00 PM	70618
Anthracene	ND	0.015		mg/Kg	1	10/12/2022 10:58:00 PM	70618
Fluoranthene	ND	0.029		mg/Kg	1	10/12/2022 10:58:00 PM	70618
Pyrene	ND	0.029		mg/Kg	1	10/12/2022 10:58:00 PM	70618
Benz(a)anthracene	ND	0.0097		mg/Kg	1	10/12/2022 10:58:00 PM	70618
Chrysene	ND	0.024		mg/Kg	1	10/12/2022 10:58:00 PM	70618
Benzo(b)fluoranthene	ND	0.029		mg/Kg	1	10/12/2022 10:58:00 PM	70618
Benzo(k)fluoranthene	ND	0.029		mg/Kg	1	10/12/2022 10:58:00 PM	70618
Benzo(a)pyrene	ND	0.019		mg/Kg	1	10/12/2022 10:58:00 PM	70618
Dibenz(a,h)anthracene	ND	0.015		mg/Kg	1	10/12/2022 10:58:00 PM	70618
Benzo(g,h,i)perylene	ND	0.024		mg/Kg	1	10/12/2022 10:58:00 PM	70618
Indeno(1,2,3-cd)pyrene	ND	0.015		mg/Kg	1	10/12/2022 10:58:00 PM	70618
Surr: Nitrobenzene-d5	94.0	15-137		%Rec	1	10/12/2022 10:58:00 PM	70618
Surr: 2,4,6-Tribromophenol	107	15-192		%Rec	1	10/12/2022 10:58:00 PM	70618
Surr: 2-Fluorobiphenyl	87.5	15-121		%Rec	1	10/12/2022 10:58:00 PM	70618
Surr: 4-Terphenyl-d14	108	65.7-126		%Rec	1	10/12/2022 10:58:00 PM	70618
EPA METHOD 418.1: TPH							Analyst: JPM
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	10/4/2022 8:00:00 AM	70557
EPA METHOD 300.0: ANIONS							Analyst: JTT
Nitrogen, Nitrite (As N)	ND	1.5		mg/Kg	5	10/12/2022 9:28:39 AM	70743
EPA METHOD 6010B: SOIL METALS							Analyst: JRR
Antimony	ND	5.0		mg/Kg	2	10/18/2022 9:33:02 AM	70781
Beryllium	0.85	0.30		mg/Kg	2	10/14/2022 12:41:29 PM	70781
Thallium	ND	5.0		mg/Kg	2	10/14/2022 12:41:29 PM	70781
EPA METHOD 8011/504.1 MODIFIED: EDB							Analyst: mb
1,2-Dibromoethane	ND	0.099		µg/Kg	1	10/10/2022 9:47:33 PM	70658
EPA METHOD 8082A: PCB'S							Analyst: TOM
Aroclor 1016	ND	0.025		mg/Kg	1	10/11/2022 9:20:39 AM	70617
Aroclor 1221	ND	0.025		mg/Kg	1	10/11/2022 9:20:39 AM	70617
Aroclor 1232	ND	0.025		mg/Kg	1	10/11/2022 9:20:39 AM	70617
Aroclor 1242	ND	0.025		mg/Kg	1	10/11/2022 9:20:39 AM	70617

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

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

Analytical Report

Lab Order 2209G13

Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #1 VZ S-1

Project: BMG Landfarm VZ Soil Samples

Collection Date: 9/27/2022 9:44:00 AM

Lab ID: 2209G13-001

Matrix: SOIL

Received Date: 9/29/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8082A: PCB'S							Analyst: TOM
Aroclor 1248	ND	0.025		mg/Kg	1	10/11/2022 9:20:39 AM	70617
Aroclor 1254	ND	0.025		mg/Kg	1	10/11/2022 9:20:39 AM	70617
Aroclor 1260	ND	0.025		mg/Kg	1	10/11/2022 9:20:39 AM	70617
Surr: Decachlorobiphenyl	105	47.2-115		%Rec	1	10/11/2022 9:20:39 AM	70617
Surr: Tetrachloro-m-xylene	101	15-110		%Rec	1	10/11/2022 9:20:39 AM	70617
EPA METHOD 8260B: VOLATILES							Analyst: JR
Benzene	ND	0.024		mg/Kg	1	10/1/2022 4:19:10 AM	70499
Toluene	ND	0.048		mg/Kg	1	10/1/2022 4:19:10 AM	70499
Ethylbenzene	ND	0.048		mg/Kg	1	10/1/2022 4:19:10 AM	70499
Methyl tert-butyl ether (MTBE)	ND	0.048		mg/Kg	1	10/1/2022 4:19:10 AM	70499
1,2,4-Trimethylbenzene	ND	0.048		mg/Kg	1	10/1/2022 4:19:10 AM	70499
1,3,5-Trimethylbenzene	ND	0.048		mg/Kg	1	10/1/2022 4:19:10 AM	70499
1,2-Dichloroethane (EDC)	ND	0.048		mg/Kg	1	10/1/2022 4:19:10 AM	70499
1,2-Dibromoethane (EDB)	ND	0.048		mg/Kg	1	10/1/2022 4:19:10 AM	70499
Naphthalene	ND	0.097		mg/Kg	1	10/1/2022 4:19:10 AM	70499
1-Methylnaphthalene	ND	0.19		mg/Kg	1	10/1/2022 4:19:10 AM	70499
2-Methylnaphthalene	ND	0.19		mg/Kg	1	10/1/2022 4:19:10 AM	70499
Acetone	ND	0.73		mg/Kg	1	10/1/2022 4:19:10 AM	70499
Bromobenzene	ND	0.048		mg/Kg	1	10/1/2022 4:19:10 AM	70499
Bromodichloromethane	ND	0.048		mg/Kg	1	10/1/2022 4:19:10 AM	70499
Bromoform	ND	0.048		mg/Kg	1	10/1/2022 4:19:10 AM	70499
Bromomethane	ND	0.15		mg/Kg	1	10/1/2022 4:19:10 AM	70499
2-Butanone	ND	0.48		mg/Kg	1	10/1/2022 4:19:10 AM	70499
Carbon disulfide	ND	0.48		mg/Kg	1	10/1/2022 4:19:10 AM	70499
Carbon tetrachloride	ND	0.048		mg/Kg	1	10/1/2022 4:19:10 AM	70499
Chlorobenzene	ND	0.048		mg/Kg	1	10/1/2022 4:19:10 AM	70499
Chloroethane	ND	0.097		mg/Kg	1	10/1/2022 4:19:10 AM	70499
Chloroform	ND	0.048		mg/Kg	1	10/1/2022 4:19:10 AM	70499
Chloromethane	ND	0.15		mg/Kg	1	10/1/2022 4:19:10 AM	70499
2-Chlorotoluene	ND	0.048		mg/Kg	1	10/1/2022 4:19:10 AM	70499
4-Chlorotoluene	ND	0.048		mg/Kg	1	10/1/2022 4:19:10 AM	70499
cis-1,2-DCE	ND	0.048		mg/Kg	1	10/1/2022 4:19:10 AM	70499
cis-1,3-Dichloropropene	ND	0.048		mg/Kg	1	10/1/2022 4:19:10 AM	70499
1,2-Dibromo-3-chloropropane	ND	0.097		mg/Kg	1	10/1/2022 4:19:10 AM	70499
Dibromochloromethane	ND	0.048		mg/Kg	1	10/1/2022 4:19:10 AM	70499
Dibromomethane	ND	0.048		mg/Kg	1	10/1/2022 4:19:10 AM	70499
1,2-Dichlorobenzene	ND	0.048		mg/Kg	1	10/1/2022 4:19:10 AM	70499
1,3-Dichlorobenzene	ND	0.048		mg/Kg	1	10/1/2022 4:19:10 AM	70499
1,4-Dichlorobenzene	ND	0.048		mg/Kg	1	10/1/2022 4:19:10 AM	70499

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

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

Analytical Report

Lab Order 2209G13

Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #1 VZ S-1

Project: BMG Landfarm VZ Soil Samples

Collection Date: 9/27/2022 9:44:00 AM

Lab ID: 2209G13-001

Matrix: SOIL

Received Date: 9/29/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JR
Dichlorodifluoromethane	ND	0.048		mg/Kg	1	10/1/2022 4:19:10 AM	70499
1,1-Dichloroethane	ND	0.048		mg/Kg	1	10/1/2022 4:19:10 AM	70499
1,1-Dichloroethene	ND	0.048		mg/Kg	1	10/1/2022 4:19:10 AM	70499
1,2-Dichloropropane	ND	0.048		mg/Kg	1	10/1/2022 4:19:10 AM	70499
1,3-Dichloropropane	ND	0.048		mg/Kg	1	10/1/2022 4:19:10 AM	70499
2,2-Dichloropropane	ND	0.097		mg/Kg	1	10/1/2022 4:19:10 AM	70499
1,1-Dichloropropene	ND	0.097		mg/Kg	1	10/1/2022 4:19:10 AM	70499
Hexachlorobutadiene	ND	0.097		mg/Kg	1	10/1/2022 4:19:10 AM	70499
2-Hexanone	ND	0.48		mg/Kg	1	10/1/2022 4:19:10 AM	70499
Isopropylbenzene	ND	0.048		mg/Kg	1	10/1/2022 4:19:10 AM	70499
4-Isopropyltoluene	ND	0.048		mg/Kg	1	10/1/2022 4:19:10 AM	70499
4-Methyl-2-pentanone	ND	0.48		mg/Kg	1	10/1/2022 4:19:10 AM	70499
Methylene chloride	ND	0.15		mg/Kg	1	10/1/2022 4:19:10 AM	70499
n-Butylbenzene	ND	0.15		mg/Kg	1	10/1/2022 4:19:10 AM	70499
n-Propylbenzene	ND	0.048		mg/Kg	1	10/1/2022 4:19:10 AM	70499
sec-Butylbenzene	ND	0.048		mg/Kg	1	10/1/2022 4:19:10 AM	70499
Styrene	ND	0.048		mg/Kg	1	10/1/2022 4:19:10 AM	70499
tert-Butylbenzene	ND	0.048		mg/Kg	1	10/1/2022 4:19:10 AM	70499
1,1,1,2-Tetrachloroethane	ND	0.048		mg/Kg	1	10/1/2022 4:19:10 AM	70499
1,1,2,2-Tetrachloroethane	ND	0.048		mg/Kg	1	10/1/2022 4:19:10 AM	70499
Tetrachloroethene (PCE)	ND	0.048		mg/Kg	1	10/1/2022 4:19:10 AM	70499
trans-1,2-DCE	ND	0.048		mg/Kg	1	10/1/2022 4:19:10 AM	70499
trans-1,3-Dichloropropene	ND	0.048		mg/Kg	1	10/1/2022 4:19:10 AM	70499
1,2,3-Trichlorobenzene	ND	0.097		mg/Kg	1	10/1/2022 4:19:10 AM	70499
1,2,4-Trichlorobenzene	ND	0.048		mg/Kg	1	10/1/2022 4:19:10 AM	70499
1,1,1-Trichloroethane	ND	0.048		mg/Kg	1	10/1/2022 4:19:10 AM	70499
1,1,2-Trichloroethane	ND	0.048		mg/Kg	1	10/1/2022 4:19:10 AM	70499
Trichloroethene (TCE)	ND	0.048		mg/Kg	1	10/1/2022 4:19:10 AM	70499
Trichlorofluoromethane	ND	0.048		mg/Kg	1	10/1/2022 4:19:10 AM	70499
1,2,3-Trichloropropane	ND	0.097		mg/Kg	1	10/1/2022 4:19:10 AM	70499
Vinyl chloride	ND	0.048		mg/Kg	1	10/1/2022 4:19:10 AM	70499
Xylenes, Total	ND	0.097		mg/Kg	1	10/1/2022 4:19:10 AM	70499
Surr: Dibromofluoromethane	111	70-130		%Rec	1	10/1/2022 4:19:10 AM	70499
Surr: 1,2-Dichloroethane-d4	99.1	70-130		%Rec	1	10/1/2022 4:19:10 AM	70499
Surr: Toluene-d8	102	70-130		%Rec	1	10/1/2022 4:19:10 AM	70499
Surr: 4-Bromofluorobenzene	92.9	70-130		%Rec	1	10/1/2022 4:19:10 AM	70499
SM4500H+B/EPA 9040C							Analyst: SNS
pH	7.74			pH Units	1	10/11/2022 4:32:00 PM	R91706

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

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

Analytical Report

Lab Order 2209G13

Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #2 VZ S-2

Project: BMG Landfarm VZ Soil Samples

Collection Date: 9/27/2022 9:59:00 AM

Lab ID: 2209G13-002

Matrix: SOIL

Received Date: 9/29/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
SW8270C							Analyst: DAM
Naphthalene	ND	0.0097		mg/Kg	1	10/13/2022 1:18:00 AM	70618
1-Methylnaphthalene	ND	0.0097		mg/Kg	1	10/13/2022 1:18:00 AM	70618
2-Methylnaphthalene	ND	0.0097		mg/Kg	1	10/13/2022 1:18:00 AM	70618
Acenaphthylene	ND	0.0097		mg/Kg	1	10/13/2022 1:18:00 AM	70618
Acenaphthene	ND	0.0097		mg/Kg	1	10/13/2022 1:18:00 AM	70618
Fluorene	ND	0.029		mg/Kg	1	10/13/2022 1:18:00 AM	70618
Phenanthrene	ND	0.015		mg/Kg	1	10/13/2022 1:18:00 AM	70618
Anthracene	ND	0.015		mg/Kg	1	10/13/2022 1:18:00 AM	70618
Fluoranthene	ND	0.029		mg/Kg	1	10/13/2022 1:18:00 AM	70618
Pyrene	ND	0.029		mg/Kg	1	10/13/2022 1:18:00 AM	70618
Benz(a)anthracene	ND	0.0097		mg/Kg	1	10/13/2022 1:18:00 AM	70618
Chrysene	ND	0.024		mg/Kg	1	10/13/2022 1:18:00 AM	70618
Benzo(b)fluoranthene	ND	0.029		mg/Kg	1	10/13/2022 1:18:00 AM	70618
Benzo(k)fluoranthene	ND	0.029		mg/Kg	1	10/13/2022 1:18:00 AM	70618
Benzo(a)pyrene	ND	0.019		mg/Kg	1	10/13/2022 1:18:00 AM	70618
Dibenz(a,h)anthracene	ND	0.015		mg/Kg	1	10/13/2022 1:18:00 AM	70618
Benzo(g,h,i)perylene	ND	0.024		mg/Kg	1	10/13/2022 1:18:00 AM	70618
Indeno(1,2,3-cd)pyrene	ND	0.015		mg/Kg	1	10/13/2022 1:18:00 AM	70618
Surr: Nitrobenzene-d5	95.5	15-137		%Rec	1	10/13/2022 1:18:00 AM	70618
Surr: 2,4,6-Tribromophenol	122	15-192		%Rec	1	10/13/2022 1:18:00 AM	70618
Surr: 2-Fluorobiphenyl	86.0	15-121		%Rec	1	10/13/2022 1:18:00 AM	70618
Surr: 4-Terphenyl-d14	105	65.7-126		%Rec	1	10/13/2022 1:18:00 AM	70618
EPA METHOD 418.1: TPH							Analyst: JPM
Petroleum Hydrocarbons, TR	ND	19		mg/Kg	1	10/4/2022 8:00:00 AM	70557
EPA METHOD 300.0: ANIONS							Analyst: JTT
Nitrogen, Nitrite (As N)	ND	1.5		mg/Kg	5	10/12/2022 9:53:28 AM	70743
EPA METHOD 6010B: SOIL METALS							Analyst: JRR
Antimony	ND	5.0		mg/Kg	2	10/18/2022 9:37:14 AM	70781
Beryllium	0.79	0.30		mg/Kg	2	10/14/2022 12:49:20 PM	70781
Thallium	ND	5.0		mg/Kg	2	10/14/2022 12:49:20 PM	70781
EPA METHOD 8011/504.1 MODIFIED: EDB							Analyst: mb
1,2-Dibromoethane	ND	0.10		µg/Kg	1	10/10/2022 10:32:36 PM	70658
EPA METHOD 8082A: PCB'S							Analyst: TOM
Aroclor 1016	ND	0.025		mg/Kg	1	10/11/2022 9:58:01 AM	70617
Aroclor 1221	ND	0.025		mg/Kg	1	10/11/2022 9:58:01 AM	70617
Aroclor 1232	ND	0.025		mg/Kg	1	10/11/2022 9:58:01 AM	70617
Aroclor 1242	ND	0.025		mg/Kg	1	10/11/2022 9:58:01 AM	70617

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

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

Analytical Report

Lab Order 2209G13

Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #2 VZ S-2

Project: BMG Landfarm VZ Soil Samples

Collection Date: 9/27/2022 9:59:00 AM

Lab ID: 2209G13-002

Matrix: SOIL

Received Date: 9/29/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8082A: PCB'S							Analyst: TOM
Aroclor 1248	ND	0.025		mg/Kg	1	10/11/2022 9:58:01 AM	70617
Aroclor 1254	ND	0.025		mg/Kg	1	10/11/2022 9:58:01 AM	70617
Aroclor 1260	ND	0.025		mg/Kg	1	10/11/2022 9:58:01 AM	70617
Surr: Decachlorobiphenyl	101	47.2-115		%Rec	1	10/11/2022 9:58:01 AM	70617
Surr: Tetrachloro-m-xylene	88.0	15-110		%Rec	1	10/11/2022 9:58:01 AM	70617
EPA METHOD 8260B: VOLATILES							Analyst: JR
Benzene	ND	0.025		mg/Kg	1	10/1/2022 4:47:52 AM	70499
Toluene	ND	0.049		mg/Kg	1	10/1/2022 4:47:52 AM	70499
Ethylbenzene	ND	0.049		mg/Kg	1	10/1/2022 4:47:52 AM	70499
Methyl tert-butyl ether (MTBE)	ND	0.049		mg/Kg	1	10/1/2022 4:47:52 AM	70499
1,2,4-Trimethylbenzene	ND	0.049		mg/Kg	1	10/1/2022 4:47:52 AM	70499
1,3,5-Trimethylbenzene	ND	0.049		mg/Kg	1	10/1/2022 4:47:52 AM	70499
1,2-Dichloroethane (EDC)	ND	0.049		mg/Kg	1	10/1/2022 4:47:52 AM	70499
1,2-Dibromoethane (EDB)	ND	0.049		mg/Kg	1	10/1/2022 4:47:52 AM	70499
Naphthalene	ND	0.099		mg/Kg	1	10/1/2022 4:47:52 AM	70499
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/1/2022 4:47:52 AM	70499
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/1/2022 4:47:52 AM	70499
Acetone	ND	0.74		mg/Kg	1	10/1/2022 4:47:52 AM	70499
Bromobenzene	ND	0.049		mg/Kg	1	10/1/2022 4:47:52 AM	70499
Bromodichloromethane	ND	0.049		mg/Kg	1	10/1/2022 4:47:52 AM	70499
Bromoform	ND	0.049		mg/Kg	1	10/1/2022 4:47:52 AM	70499
Bromomethane	ND	0.15		mg/Kg	1	10/1/2022 4:47:52 AM	70499
2-Butanone	ND	0.49		mg/Kg	1	10/1/2022 4:47:52 AM	70499
Carbon disulfide	ND	0.49		mg/Kg	1	10/1/2022 4:47:52 AM	70499
Carbon tetrachloride	ND	0.049		mg/Kg	1	10/1/2022 4:47:52 AM	70499
Chlorobenzene	ND	0.049		mg/Kg	1	10/1/2022 4:47:52 AM	70499
Chloroethane	ND	0.099		mg/Kg	1	10/1/2022 4:47:52 AM	70499
Chloroform	ND	0.049		mg/Kg	1	10/1/2022 4:47:52 AM	70499
Chloromethane	ND	0.15		mg/Kg	1	10/1/2022 4:47:52 AM	70499
2-Chlorotoluene	ND	0.049		mg/Kg	1	10/1/2022 4:47:52 AM	70499
4-Chlorotoluene	ND	0.049		mg/Kg	1	10/1/2022 4:47:52 AM	70499
cis-1,2-DCE	ND	0.049		mg/Kg	1	10/1/2022 4:47:52 AM	70499
cis-1,3-Dichloropropene	ND	0.049		mg/Kg	1	10/1/2022 4:47:52 AM	70499
1,2-Dibromo-3-chloropropane	ND	0.099		mg/Kg	1	10/1/2022 4:47:52 AM	70499
Dibromochloromethane	ND	0.049		mg/Kg	1	10/1/2022 4:47:52 AM	70499
Dibromomethane	ND	0.049		mg/Kg	1	10/1/2022 4:47:52 AM	70499
1,2-Dichlorobenzene	ND	0.049		mg/Kg	1	10/1/2022 4:47:52 AM	70499
1,3-Dichlorobenzene	ND	0.049		mg/Kg	1	10/1/2022 4:47:52 AM	70499
1,4-Dichlorobenzene	ND	0.049		mg/Kg	1	10/1/2022 4:47:52 AM	70499

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

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

Analytical Report

Lab Order 2209G13

Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #2 VZ S-2

Project: BMG Landfarm VZ Soil Samples

Collection Date: 9/27/2022 9:59:00 AM

Lab ID: 2209G13-002

Matrix: SOIL

Received Date: 9/29/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JR
Dichlorodifluoromethane	ND	0.049		mg/Kg	1	10/1/2022 4:47:52 AM	70499
1,1-Dichloroethane	ND	0.049		mg/Kg	1	10/1/2022 4:47:52 AM	70499
1,1-Dichloroethene	ND	0.049		mg/Kg	1	10/1/2022 4:47:52 AM	70499
1,2-Dichloropropane	ND	0.049		mg/Kg	1	10/1/2022 4:47:52 AM	70499
1,3-Dichloropropane	ND	0.049		mg/Kg	1	10/1/2022 4:47:52 AM	70499
2,2-Dichloropropane	ND	0.099		mg/Kg	1	10/1/2022 4:47:52 AM	70499
1,1-Dichloropropene	ND	0.099		mg/Kg	1	10/1/2022 4:47:52 AM	70499
Hexachlorobutadiene	ND	0.099		mg/Kg	1	10/1/2022 4:47:52 AM	70499
2-Hexanone	ND	0.49		mg/Kg	1	10/1/2022 4:47:52 AM	70499
Isopropylbenzene	ND	0.049		mg/Kg	1	10/1/2022 4:47:52 AM	70499
4-Isopropyltoluene	ND	0.049		mg/Kg	1	10/1/2022 4:47:52 AM	70499
4-Methyl-2-pentanone	ND	0.49		mg/Kg	1	10/1/2022 4:47:52 AM	70499
Methylene chloride	ND	0.15		mg/Kg	1	10/1/2022 4:47:52 AM	70499
n-Butylbenzene	ND	0.15		mg/Kg	1	10/1/2022 4:47:52 AM	70499
n-Propylbenzene	ND	0.049		mg/Kg	1	10/1/2022 4:47:52 AM	70499
sec-Butylbenzene	ND	0.049		mg/Kg	1	10/1/2022 4:47:52 AM	70499
Styrene	ND	0.049		mg/Kg	1	10/1/2022 4:47:52 AM	70499
tert-Butylbenzene	ND	0.049		mg/Kg	1	10/1/2022 4:47:52 AM	70499
1,1,1,2-Tetrachloroethane	ND	0.049		mg/Kg	1	10/1/2022 4:47:52 AM	70499
1,1,2,2-Tetrachloroethane	ND	0.049		mg/Kg	1	10/1/2022 4:47:52 AM	70499
Tetrachloroethene (PCE)	ND	0.049		mg/Kg	1	10/1/2022 4:47:52 AM	70499
trans-1,2-DCE	ND	0.049		mg/Kg	1	10/1/2022 4:47:52 AM	70499
trans-1,3-Dichloropropene	ND	0.049		mg/Kg	1	10/1/2022 4:47:52 AM	70499
1,2,3-Trichlorobenzene	ND	0.099		mg/Kg	1	10/1/2022 4:47:52 AM	70499
1,2,4-Trichlorobenzene	ND	0.049		mg/Kg	1	10/1/2022 4:47:52 AM	70499
1,1,1-Trichloroethane	ND	0.049		mg/Kg	1	10/1/2022 4:47:52 AM	70499
1,1,2-Trichloroethane	ND	0.049		mg/Kg	1	10/1/2022 4:47:52 AM	70499
Trichloroethene (TCE)	ND	0.049		mg/Kg	1	10/1/2022 4:47:52 AM	70499
Trichlorofluoromethane	ND	0.049		mg/Kg	1	10/1/2022 4:47:52 AM	70499
1,2,3-Trichloropropane	ND	0.099		mg/Kg	1	10/1/2022 4:47:52 AM	70499
Vinyl chloride	ND	0.049		mg/Kg	1	10/1/2022 4:47:52 AM	70499
Xylenes, Total	ND	0.099		mg/Kg	1	10/1/2022 4:47:52 AM	70499
Surr: Dibromofluoromethane	112	70-130		%Rec	1	10/1/2022 4:47:52 AM	70499
Surr: 1,2-Dichloroethane-d4	98.6	70-130		%Rec	1	10/1/2022 4:47:52 AM	70499
Surr: Toluene-d8	101	70-130		%Rec	1	10/1/2022 4:47:52 AM	70499
Surr: 4-Bromofluorobenzene	94.2	70-130		%Rec	1	10/1/2022 4:47:52 AM	70499
SM4500H+B/EPA 9040C							Analyst: SNS
pH	7.84			pH Units	1	10/11/2022 4:32:00 PM	R91706

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

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

Analytical Report

Lab Order 2209G13

Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #3 VZ S-4

Project: BMG Landfarm VZ Soil Samples

Collection Date: 9/27/2022 10:24:00 AM

Lab ID: 2209G13-003

Matrix: SOIL

Received Date: 9/29/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
SW8270C							Analyst: DAM
Naphthalene	ND	0.0098		mg/Kg	1	10/13/2022 2:04:00 AM	70618
1-Methylnaphthalene	ND	0.0098		mg/Kg	1	10/13/2022 2:04:00 AM	70618
2-Methylnaphthalene	ND	0.0098		mg/Kg	1	10/13/2022 2:04:00 AM	70618
Acenaphthylene	ND	0.0098		mg/Kg	1	10/13/2022 2:04:00 AM	70618
Acenaphthene	ND	0.0098		mg/Kg	1	10/13/2022 2:04:00 AM	70618
Fluorene	ND	0.029		mg/Kg	1	10/13/2022 2:04:00 AM	70618
Phenanthrene	ND	0.015		mg/Kg	1	10/13/2022 2:04:00 AM	70618
Anthracene	ND	0.015		mg/Kg	1	10/13/2022 2:04:00 AM	70618
Fluoranthene	ND	0.029		mg/Kg	1	10/13/2022 2:04:00 AM	70618
Pyrene	ND	0.029		mg/Kg	1	10/13/2022 2:04:00 AM	70618
Benz(a)anthracene	ND	0.0098		mg/Kg	1	10/13/2022 2:04:00 AM	70618
Chrysene	ND	0.024		mg/Kg	1	10/13/2022 2:04:00 AM	70618
Benzo(b)fluoranthene	ND	0.029		mg/Kg	1	10/13/2022 2:04:00 AM	70618
Benzo(k)fluoranthene	ND	0.029		mg/Kg	1	10/13/2022 2:04:00 AM	70618
Benzo(a)pyrene	ND	0.020		mg/Kg	1	10/13/2022 2:04:00 AM	70618
Dibenz(a,h)anthracene	ND	0.015		mg/Kg	1	10/13/2022 2:04:00 AM	70618
Benzo(g,h,i)perylene	ND	0.024		mg/Kg	1	10/13/2022 2:04:00 AM	70618
Indeno(1,2,3-cd)pyrene	ND	0.015		mg/Kg	1	10/13/2022 2:04:00 AM	70618
Surr: Nitrobenzene-d5	93.5	15-137		%Rec	1	10/13/2022 2:04:00 AM	70618
Surr: 2,4,6-Tribromophenol	120	15-192		%Rec	1	10/13/2022 2:04:00 AM	70618
Surr: 2-Fluorobiphenyl	80.5	15-121		%Rec	1	10/13/2022 2:04:00 AM	70618
Surr: 4-Terphenyl-d14	105	65.7-126		%Rec	1	10/13/2022 2:04:00 AM	70618
EPA METHOD 418.1: TPH							Analyst: JPM
Petroleum Hydrocarbons, TR	ND	19		mg/Kg	1	10/4/2022 8:00:00 AM	70557
EPA METHOD 300.0: ANIONS							Analyst: JTT
Nitrogen, Nitrite (As N)	ND	1.5		mg/Kg	5	10/12/2022 10:05:53 AM	70743
EPA METHOD 6010B: SOIL METALS							Analyst: JRR
Antimony	ND	5.0		mg/Kg	2	10/18/2022 9:38:42 AM	70781
Beryllium	0.94	0.30		mg/Kg	2	10/14/2022 12:51:16 PM	70781
Thallium	ND	5.0		mg/Kg	2	10/14/2022 12:51:16 PM	70781
EPA METHOD 8011/504.1 MODIFIED: EDB							Analyst: mb
1,2-Dibromoethane	ND	0.10		µg/Kg	1	10/10/2022 10:47:35 PM	70658
EPA METHOD 8082A: PCB'S							Analyst: TOM
Aroclor 1016	ND	0.025		mg/Kg	1	10/11/2022 10:35:27 AM	70617
Aroclor 1221	ND	0.025		mg/Kg	1	10/11/2022 10:35:27 AM	70617
Aroclor 1232	ND	0.025		mg/Kg	1	10/11/2022 10:35:27 AM	70617
Aroclor 1242	ND	0.025		mg/Kg	1	10/11/2022 10:35:27 AM	70617

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

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

Analytical Report

Lab Order 2209G13

Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #3 VZ S-4

Project: BMG Landfarm VZ Soil Samples

Collection Date: 9/27/2022 10:24:00 AM

Lab ID: 2209G13-003

Matrix: SOIL

Received Date: 9/29/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8082A: PCB'S							Analyst: TOM
Aroclor 1248	ND	0.025		mg/Kg	1	10/11/2022 10:35:27 AM	70617
Aroclor 1254	ND	0.025		mg/Kg	1	10/11/2022 10:35:27 AM	70617
Aroclor 1260	ND	0.025		mg/Kg	1	10/11/2022 10:35:27 AM	70617
Surr: Decachlorobiphenyl	104	47.2-115		%Rec	1	10/11/2022 10:35:27 AM	70617
Surr: Tetrachloro-m-xylene	96.0	15-110		%Rec	1	10/11/2022 10:35:27 AM	70617
EPA METHOD 8260B: VOLATILES							Analyst: JR
Benzene	ND	0.023		mg/Kg	1	10/1/2022 5:16:20 AM	70499
Toluene	ND	0.046		mg/Kg	1	10/1/2022 5:16:20 AM	70499
Ethylbenzene	ND	0.046		mg/Kg	1	10/1/2022 5:16:20 AM	70499
Methyl tert-butyl ether (MTBE)	ND	0.046		mg/Kg	1	10/1/2022 5:16:20 AM	70499
1,2,4-Trimethylbenzene	ND	0.046		mg/Kg	1	10/1/2022 5:16:20 AM	70499
1,3,5-Trimethylbenzene	ND	0.046		mg/Kg	1	10/1/2022 5:16:20 AM	70499
1,2-Dichloroethane (EDC)	ND	0.046		mg/Kg	1	10/1/2022 5:16:20 AM	70499
1,2-Dibromoethane (EDB)	ND	0.046		mg/Kg	1	10/1/2022 5:16:20 AM	70499
Naphthalene	ND	0.092		mg/Kg	1	10/1/2022 5:16:20 AM	70499
1-Methylnaphthalene	ND	0.18		mg/Kg	1	10/1/2022 5:16:20 AM	70499
2-Methylnaphthalene	ND	0.18		mg/Kg	1	10/1/2022 5:16:20 AM	70499
Acetone	ND	0.69		mg/Kg	1	10/1/2022 5:16:20 AM	70499
Bromobenzene	ND	0.046		mg/Kg	1	10/1/2022 5:16:20 AM	70499
Bromodichloromethane	ND	0.046		mg/Kg	1	10/1/2022 5:16:20 AM	70499
Bromoform	ND	0.046		mg/Kg	1	10/1/2022 5:16:20 AM	70499
Bromomethane	ND	0.14		mg/Kg	1	10/1/2022 5:16:20 AM	70499
2-Butanone	ND	0.46		mg/Kg	1	10/1/2022 5:16:20 AM	70499
Carbon disulfide	ND	0.46		mg/Kg	1	10/1/2022 5:16:20 AM	70499
Carbon tetrachloride	ND	0.046		mg/Kg	1	10/1/2022 5:16:20 AM	70499
Chlorobenzene	ND	0.046		mg/Kg	1	10/1/2022 5:16:20 AM	70499
Chloroethane	ND	0.092		mg/Kg	1	10/1/2022 5:16:20 AM	70499
Chloroform	ND	0.046		mg/Kg	1	10/1/2022 5:16:20 AM	70499
Chloromethane	ND	0.14		mg/Kg	1	10/1/2022 5:16:20 AM	70499
2-Chlorotoluene	ND	0.046		mg/Kg	1	10/1/2022 5:16:20 AM	70499
4-Chlorotoluene	ND	0.046		mg/Kg	1	10/1/2022 5:16:20 AM	70499
cis-1,2-DCE	ND	0.046		mg/Kg	1	10/1/2022 5:16:20 AM	70499
cis-1,3-Dichloropropene	ND	0.046		mg/Kg	1	10/1/2022 5:16:20 AM	70499
1,2-Dibromo-3-chloropropane	ND	0.092		mg/Kg	1	10/1/2022 5:16:20 AM	70499
Dibromochloromethane	ND	0.046		mg/Kg	1	10/1/2022 5:16:20 AM	70499
Dibromomethane	ND	0.046		mg/Kg	1	10/1/2022 5:16:20 AM	70499
1,2-Dichlorobenzene	ND	0.046		mg/Kg	1	10/1/2022 5:16:20 AM	70499
1,3-Dichlorobenzene	ND	0.046		mg/Kg	1	10/1/2022 5:16:20 AM	70499
1,4-Dichlorobenzene	ND	0.046		mg/Kg	1	10/1/2022 5:16:20 AM	70499

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

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

Analytical Report

Lab Order 2209G13

Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #3 VZ S-4

Project: BMG Landfarm VZ Soil Samples

Collection Date: 9/27/2022 10:24:00 AM

Lab ID: 2209G13-003

Matrix: SOIL

Received Date: 9/29/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JR
Dichlorodifluoromethane	ND	0.046		mg/Kg	1	10/1/2022 5:16:20 AM	70499
1,1-Dichloroethane	ND	0.046		mg/Kg	1	10/1/2022 5:16:20 AM	70499
1,1-Dichloroethene	ND	0.046		mg/Kg	1	10/1/2022 5:16:20 AM	70499
1,2-Dichloropropane	ND	0.046		mg/Kg	1	10/1/2022 5:16:20 AM	70499
1,3-Dichloropropane	ND	0.046		mg/Kg	1	10/1/2022 5:16:20 AM	70499
2,2-Dichloropropane	ND	0.092		mg/Kg	1	10/1/2022 5:16:20 AM	70499
1,1-Dichloropropene	ND	0.092		mg/Kg	1	10/1/2022 5:16:20 AM	70499
Hexachlorobutadiene	ND	0.092		mg/Kg	1	10/1/2022 5:16:20 AM	70499
2-Hexanone	ND	0.46		mg/Kg	1	10/1/2022 5:16:20 AM	70499
Isopropylbenzene	ND	0.046		mg/Kg	1	10/1/2022 5:16:20 AM	70499
4-Isopropyltoluene	ND	0.046		mg/Kg	1	10/1/2022 5:16:20 AM	70499
4-Methyl-2-pentanone	ND	0.46		mg/Kg	1	10/1/2022 5:16:20 AM	70499
Methylene chloride	ND	0.14		mg/Kg	1	10/1/2022 5:16:20 AM	70499
n-Butylbenzene	ND	0.14		mg/Kg	1	10/1/2022 5:16:20 AM	70499
n-Propylbenzene	ND	0.046		mg/Kg	1	10/1/2022 5:16:20 AM	70499
sec-Butylbenzene	ND	0.046		mg/Kg	1	10/1/2022 5:16:20 AM	70499
Styrene	ND	0.046		mg/Kg	1	10/1/2022 5:16:20 AM	70499
tert-Butylbenzene	ND	0.046		mg/Kg	1	10/1/2022 5:16:20 AM	70499
1,1,1,2-Tetrachloroethane	ND	0.046		mg/Kg	1	10/1/2022 5:16:20 AM	70499
1,1,2,2-Tetrachloroethane	ND	0.046		mg/Kg	1	10/1/2022 5:16:20 AM	70499
Tetrachloroethene (PCE)	ND	0.046		mg/Kg	1	10/1/2022 5:16:20 AM	70499
trans-1,2-DCE	ND	0.046		mg/Kg	1	10/1/2022 5:16:20 AM	70499
trans-1,3-Dichloropropene	ND	0.046		mg/Kg	1	10/1/2022 5:16:20 AM	70499
1,2,3-Trichlorobenzene	ND	0.092		mg/Kg	1	10/1/2022 5:16:20 AM	70499
1,2,4-Trichlorobenzene	ND	0.046		mg/Kg	1	10/1/2022 5:16:20 AM	70499
1,1,1-Trichloroethane	ND	0.046		mg/Kg	1	10/1/2022 5:16:20 AM	70499
1,1,2-Trichloroethane	ND	0.046		mg/Kg	1	10/1/2022 5:16:20 AM	70499
Trichloroethene (TCE)	ND	0.046		mg/Kg	1	10/1/2022 5:16:20 AM	70499
Trichlorofluoromethane	ND	0.046		mg/Kg	1	10/1/2022 5:16:20 AM	70499
1,2,3-Trichloropropane	ND	0.092		mg/Kg	1	10/1/2022 5:16:20 AM	70499
Vinyl chloride	ND	0.046		mg/Kg	1	10/1/2022 5:16:20 AM	70499
Xylenes, Total	ND	0.092		mg/Kg	1	10/1/2022 5:16:20 AM	70499
Surr: Dibromofluoromethane	112	70-130		%Rec	1	10/1/2022 5:16:20 AM	70499
Surr: 1,2-Dichloroethane-d4	98.1	70-130		%Rec	1	10/1/2022 5:16:20 AM	70499
Surr: Toluene-d8	101	70-130		%Rec	1	10/1/2022 5:16:20 AM	70499
Surr: 4-Bromofluorobenzene	91.9	70-130		%Rec	1	10/1/2022 5:16:20 AM	70499
SM4500H+B/EPA 9040C							Analyst: SNS
pH	7.98			pH Units	1	10/11/2022 4:32:00 PM	R91706

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

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

Analytical Report

Lab Order 2209G13

Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #4 VZ S-1

Project: BMG Landfarm VZ Soil Samples

Collection Date: 9/27/2022 10:43:00 AM

Lab ID: 2209G13-004

Matrix: SOIL

Received Date: 9/29/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
SW8270C							Analyst: DAM
Naphthalene	ND	0.0098		mg/Kg	1	10/13/2022 2:50:00 AM	70618
1-Methylnaphthalene	ND	0.0098		mg/Kg	1	10/13/2022 2:50:00 AM	70618
2-Methylnaphthalene	ND	0.0098		mg/Kg	1	10/13/2022 2:50:00 AM	70618
Acenaphthylene	ND	0.0098		mg/Kg	1	10/13/2022 2:50:00 AM	70618
Acenaphthene	ND	0.0098		mg/Kg	1	10/13/2022 2:50:00 AM	70618
Fluorene	ND	0.030		mg/Kg	1	10/13/2022 2:50:00 AM	70618
Phenanthrene	ND	0.015		mg/Kg	1	10/13/2022 2:50:00 AM	70618
Anthracene	ND	0.015		mg/Kg	1	10/13/2022 2:50:00 AM	70618
Fluoranthene	ND	0.030		mg/Kg	1	10/13/2022 2:50:00 AM	70618
Pyrene	ND	0.030		mg/Kg	1	10/13/2022 2:50:00 AM	70618
Benz(a)anthracene	ND	0.0098		mg/Kg	1	10/13/2022 2:50:00 AM	70618
Chrysene	ND	0.025		mg/Kg	1	10/13/2022 2:50:00 AM	70618
Benzo(b)fluoranthene	ND	0.030		mg/Kg	1	10/13/2022 2:50:00 AM	70618
Benzo(k)fluoranthene	ND	0.030		mg/Kg	1	10/13/2022 2:50:00 AM	70618
Benzo(a)pyrene	ND	0.020		mg/Kg	1	10/13/2022 2:50:00 AM	70618
Dibenz(a,h)anthracene	ND	0.015		mg/Kg	1	10/13/2022 2:50:00 AM	70618
Benzo(g,h,i)perylene	ND	0.025		mg/Kg	1	10/13/2022 2:50:00 AM	70618
Indeno(1,2,3-cd)pyrene	ND	0.015		mg/Kg	1	10/13/2022 2:50:00 AM	70618
Surr: Nitrobenzene-d5	86.5	15-137		%Rec	1	10/13/2022 2:50:00 AM	70618
Surr: 2,4,6-Tribromophenol	120	15-192		%Rec	1	10/13/2022 2:50:00 AM	70618
Surr: 2-Fluorobiphenyl	75.0	15-121		%Rec	1	10/13/2022 2:50:00 AM	70618
Surr: 4-Terphenyl-d14	100	65.7-126		%Rec	1	10/13/2022 2:50:00 AM	70618
EPA METHOD 418.1: TPH							Analyst: JPM
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	10/4/2022 8:00:00 AM	70557
EPA METHOD 300.0: ANIONS							Analyst: JTT
Nitrogen, Nitrite (As N)	ND	1.5		mg/Kg	5	10/12/2022 10:18:18 AM	70743
EPA METHOD 6010B: SOIL METALS							Analyst: JRR
Antimony	ND	5.0		mg/Kg	2	10/18/2022 9:44:32 AM	70781
Beryllium	1.3	0.30		mg/Kg	2	10/14/2022 12:53:15 PM	70781
Thallium	ND	5.0		mg/Kg	2	10/14/2022 12:53:15 PM	70781
EPA METHOD 8011/504.1 MODIFIED: EDB							Analyst: mb
1,2-Dibromoethane	ND	0.10		µg/Kg	1	10/10/2022 11:02:38 PM	70658
EPA METHOD 8082A: PCB'S							Analyst: TOM
Aroclor 1016	ND	0.024		mg/Kg	1	10/11/2022 11:11:26 AM	70617
Aroclor 1221	ND	0.024		mg/Kg	1	10/11/2022 11:11:26 AM	70617
Aroclor 1232	ND	0.024		mg/Kg	1	10/11/2022 11:11:26 AM	70617
Aroclor 1242	ND	0.024		mg/Kg	1	10/11/2022 11:11:26 AM	70617

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

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

Analytical Report

Lab Order 2209G13

Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #4 VZ S-1

Project: BMG Landfarm VZ Soil Samples

Collection Date: 9/27/2022 10:43:00 AM

Lab ID: 2209G13-004

Matrix: SOIL

Received Date: 9/29/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8082A: PCB'S							Analyst: TOM
Aroclor 1248	ND	0.024		mg/Kg	1	10/11/2022 11:11:26 AM	70617
Aroclor 1254	ND	0.024		mg/Kg	1	10/11/2022 11:11:26 AM	70617
Aroclor 1260	ND	0.024		mg/Kg	1	10/11/2022 11:11:26 AM	70617
Surr: Decachlorobiphenyl	104	47.2-115		%Rec	1	10/11/2022 11:11:26 AM	70617
Surr: Tetrachloro-m-xylene	100	15-110		%Rec	1	10/11/2022 11:11:26 AM	70617
EPA METHOD 8260B: VOLATILES							Analyst: JR
Benzene	ND	0.025		mg/Kg	1	10/1/2022 5:45:00 AM	70499
Toluene	ND	0.049		mg/Kg	1	10/1/2022 5:45:00 AM	70499
Ethylbenzene	ND	0.049		mg/Kg	1	10/1/2022 5:45:00 AM	70499
Methyl tert-butyl ether (MTBE)	ND	0.049		mg/Kg	1	10/1/2022 5:45:00 AM	70499
1,2,4-Trimethylbenzene	ND	0.049		mg/Kg	1	10/1/2022 5:45:00 AM	70499
1,3,5-Trimethylbenzene	ND	0.049		mg/Kg	1	10/1/2022 5:45:00 AM	70499
1,2-Dichloroethane (EDC)	ND	0.049		mg/Kg	1	10/1/2022 5:45:00 AM	70499
1,2-Dibromoethane (EDB)	ND	0.049		mg/Kg	1	10/1/2022 5:45:00 AM	70499
Naphthalene	ND	0.099		mg/Kg	1	10/1/2022 5:45:00 AM	70499
1-Methylnaphthalene	ND	0.20		mg/Kg	1	10/1/2022 5:45:00 AM	70499
2-Methylnaphthalene	ND	0.20		mg/Kg	1	10/1/2022 5:45:00 AM	70499
Acetone	ND	0.74		mg/Kg	1	10/1/2022 5:45:00 AM	70499
Bromobenzene	ND	0.049		mg/Kg	1	10/1/2022 5:45:00 AM	70499
Bromodichloromethane	ND	0.049		mg/Kg	1	10/1/2022 5:45:00 AM	70499
Bromoform	ND	0.049		mg/Kg	1	10/1/2022 5:45:00 AM	70499
Bromomethane	ND	0.15		mg/Kg	1	10/1/2022 5:45:00 AM	70499
2-Butanone	ND	0.49		mg/Kg	1	10/1/2022 5:45:00 AM	70499
Carbon disulfide	ND	0.49		mg/Kg	1	10/1/2022 5:45:00 AM	70499
Carbon tetrachloride	ND	0.049		mg/Kg	1	10/1/2022 5:45:00 AM	70499
Chlorobenzene	ND	0.049		mg/Kg	1	10/1/2022 5:45:00 AM	70499
Chloroethane	ND	0.099		mg/Kg	1	10/1/2022 5:45:00 AM	70499
Chloroform	ND	0.049		mg/Kg	1	10/1/2022 5:45:00 AM	70499
Chloromethane	ND	0.15		mg/Kg	1	10/1/2022 5:45:00 AM	70499
2-Chlorotoluene	ND	0.049		mg/Kg	1	10/1/2022 5:45:00 AM	70499
4-Chlorotoluene	ND	0.049		mg/Kg	1	10/1/2022 5:45:00 AM	70499
cis-1,2-DCE	ND	0.049		mg/Kg	1	10/1/2022 5:45:00 AM	70499
cis-1,3-Dichloropropene	ND	0.049		mg/Kg	1	10/1/2022 5:45:00 AM	70499
1,2-Dibromo-3-chloropropane	ND	0.099		mg/Kg	1	10/1/2022 5:45:00 AM	70499
Dibromochloromethane	ND	0.049		mg/Kg	1	10/1/2022 5:45:00 AM	70499
Dibromomethane	ND	0.049		mg/Kg	1	10/1/2022 5:45:00 AM	70499
1,2-Dichlorobenzene	ND	0.049		mg/Kg	1	10/1/2022 5:45:00 AM	70499
1,3-Dichlorobenzene	ND	0.049		mg/Kg	1	10/1/2022 5:45:00 AM	70499
1,4-Dichlorobenzene	ND	0.049		mg/Kg	1	10/1/2022 5:45:00 AM	70499

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

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

Page 11 of 24

Analytical Report

Lab Order 2209G13

Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #4 VZ S-1

Project: BMG Landfarm VZ Soil Samples

Collection Date: 9/27/2022 10:43:00 AM

Lab ID: 2209G13-004

Matrix: SOIL

Received Date: 9/29/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JR
Dichlorodifluoromethane	ND	0.049		mg/Kg	1	10/1/2022 5:45:00 AM	70499
1,1-Dichloroethane	ND	0.049		mg/Kg	1	10/1/2022 5:45:00 AM	70499
1,1-Dichloroethene	ND	0.049		mg/Kg	1	10/1/2022 5:45:00 AM	70499
1,2-Dichloropropane	ND	0.049		mg/Kg	1	10/1/2022 5:45:00 AM	70499
1,3-Dichloropropane	ND	0.049		mg/Kg	1	10/1/2022 5:45:00 AM	70499
2,2-Dichloropropane	ND	0.099		mg/Kg	1	10/1/2022 5:45:00 AM	70499
1,1-Dichloropropene	ND	0.099		mg/Kg	1	10/1/2022 5:45:00 AM	70499
Hexachlorobutadiene	ND	0.099		mg/Kg	1	10/1/2022 5:45:00 AM	70499
2-Hexanone	ND	0.49		mg/Kg	1	10/1/2022 5:45:00 AM	70499
Isopropylbenzene	ND	0.049		mg/Kg	1	10/1/2022 5:45:00 AM	70499
4-Isopropyltoluene	ND	0.049		mg/Kg	1	10/1/2022 5:45:00 AM	70499
4-Methyl-2-pentanone	ND	0.49		mg/Kg	1	10/1/2022 5:45:00 AM	70499
Methylene chloride	ND	0.15		mg/Kg	1	10/1/2022 5:45:00 AM	70499
n-Butylbenzene	ND	0.15		mg/Kg	1	10/1/2022 5:45:00 AM	70499
n-Propylbenzene	ND	0.049		mg/Kg	1	10/1/2022 5:45:00 AM	70499
sec-Butylbenzene	ND	0.049		mg/Kg	1	10/1/2022 5:45:00 AM	70499
Styrene	ND	0.049		mg/Kg	1	10/1/2022 5:45:00 AM	70499
tert-Butylbenzene	ND	0.049		mg/Kg	1	10/1/2022 5:45:00 AM	70499
1,1,1,2-Tetrachloroethane	ND	0.049		mg/Kg	1	10/1/2022 5:45:00 AM	70499
1,1,2,2-Tetrachloroethane	ND	0.049		mg/Kg	1	10/1/2022 5:45:00 AM	70499
Tetrachloroethene (PCE)	ND	0.049		mg/Kg	1	10/1/2022 5:45:00 AM	70499
trans-1,2-DCE	ND	0.049		mg/Kg	1	10/1/2022 5:45:00 AM	70499
trans-1,3-Dichloropropene	ND	0.049		mg/Kg	1	10/1/2022 5:45:00 AM	70499
1,2,3-Trichlorobenzene	ND	0.099		mg/Kg	1	10/1/2022 5:45:00 AM	70499
1,2,4-Trichlorobenzene	ND	0.049		mg/Kg	1	10/1/2022 5:45:00 AM	70499
1,1,1-Trichloroethane	ND	0.049		mg/Kg	1	10/1/2022 5:45:00 AM	70499
1,1,2-Trichloroethane	ND	0.049		mg/Kg	1	10/1/2022 5:45:00 AM	70499
Trichloroethene (TCE)	ND	0.049		mg/Kg	1	10/1/2022 5:45:00 AM	70499
Trichlorofluoromethane	ND	0.049		mg/Kg	1	10/1/2022 5:45:00 AM	70499
1,2,3-Trichloropropane	ND	0.099		mg/Kg	1	10/1/2022 5:45:00 AM	70499
Vinyl chloride	ND	0.049		mg/Kg	1	10/1/2022 5:45:00 AM	70499
Xylenes, Total	ND	0.099		mg/Kg	1	10/1/2022 5:45:00 AM	70499
Surr: Dibromofluoromethane	114	70-130		%Rec	1	10/1/2022 5:45:00 AM	70499
Surr: 1,2-Dichloroethane-d4	99.8	70-130		%Rec	1	10/1/2022 5:45:00 AM	70499
Surr: Toluene-d8	100	70-130		%Rec	1	10/1/2022 5:45:00 AM	70499
Surr: 4-Bromofluorobenzene	93.1	70-130		%Rec	1	10/1/2022 5:45:00 AM	70499
SM4500H+B/EPA 9040C							Analyst: SNS
pH	7.92			pH Units	1	10/11/2022 4:32:00 PM	R91706

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

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



ANALYTICAL REPORT

October 11, 2022

Hall Environmental Analysis Laboratory

Sample Delivery Group: L1542756

Samples Received: 10/04/2022

Project Number:

Description:

Report To: Andy Freeman
4901 Hawkins NE
Albuquerque, NM 87109

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Entire Report Reviewed By:

A handwritten signature in blue ink that reads "John V. Hawkins".

John Hawkins
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	² Tc
Cn: Case Narrative	4	
Sr: Sample Results	5	³ Ss
22009G13-001B CELL #1 VZ S-1 L1542756-01	5	
22009G13-002B CELL #2 VZ S-2 L1542756-02	6	⁴ Cn
22009G13-003B CELL #3 VZ S-4 L1542756-03	7	⁵ Sr
22009G13-004B CELL #4 VZ S-1 L1542756-04	8	
Qc: Quality Control Summary	9	⁶ Qc
Wet Chemistry by Method 9012B	9	
Gl: Glossary of Terms	11	⁷ Gl
Al: Accreditations & Locations	12	⁸ Al
Sc: Sample Chain of Custody	13	⁹ Sc

22009G13-001B CELL #1 VZ S-1 L1542756-01 Solid

				Collected by	Collected date/time	Received date/time
					09/27/22 09:44	10/04/22 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9012B	WG1940491	1	10/10/22 21:31	10/11/22 11:17	CAT	Mt. Juliet, TN

¹Cp

²Tc

³Ss

22009G13-002B CELL #2 VZ S-2 L1542756-02 Solid

				Collected by	Collected date/time	Received date/time
					09/27/22 09:59	10/04/22 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9012B	WG1940491	1	10/10/22 21:31	10/11/22 11:21	CAT	Mt. Juliet, TN

⁴Cn

⁵Sr

22009G13-003B CELL #3 VZ S-4 L1542756-03 Solid

				Collected by	Collected date/time	Received date/time
					09/27/22 10:24	10/04/22 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9012B	WG1940491	1	10/10/22 21:31	10/11/22 11:22	CAT	Mt. Juliet, TN

⁶Qc

⁷Gl

⁸Al

22009G13-004B CELL #4 VZ S-1 L1542756-04 Solid

				Collected by	Collected date/time	Received date/time
					09/27/22 10:43	10/04/22 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9012B	WG1940491	1	10/10/22 21:31	10/11/22 11:23	CAT	Mt. Juliet, TN

⁹Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



John Hawkins
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ Gl
- ⁸ Al
- ⁹ Sc

Collected date/time: 09/27/22 09:44

L1542756

Wet Chemistry by Method 9012B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Cyanide	ND		0.250	1	10/11/2022 11:17	WG1940491

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Collected date/time: 09/27/22 09:59

Wet Chemistry by Method 9012B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Cyanide	ND		0.250	1	10/11/2022 11:21	WG1940491

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Collected date/time: 09/27/22 10:24

L1542756

Wet Chemistry by Method 9012B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Cyanide	ND		0.250	1	10/11/2022 11:22	WG1940491

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Wet Chemistry by Method 9012B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Cyanide	ND		0.250	1	10/11/2022 11:23	WG1940491

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Wet Chemistry by Method 9012B

L1542756-01,02,03,04

Method Blank (MB)

(MB) R3847075-1 10/11/22 11:05

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Cyanide	U		0.0733	0.250

L1542558-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1542558-02 10/11/22 11:10 • (DUP) R3847075-3 10/11/22 11:11

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Cyanide	ND	ND	1	0.000		20

L1542756-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1542756-01 10/11/22 11:17 • (DUP) R3847075-6 10/11/22 11:18

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Cyanide	ND	ND	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3847075-2 10/11/22 11:06

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Cyanide	2.50	2.47	98.7	85.0-115	

L1542558-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1542558-02 10/11/22 11:10 • (MS) R3847075-4 10/11/22 11:12 • (MSD) R3847075-5 10/11/22 11:13

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Cyanide	1.67	ND	1.16	1.16	69.7	69.7	1	75.0-125	J6	J6	0.000	20

Sample Narrative:

- MS: Matrix spike failure due to matrix interference.
- MSD: Matrix spike failure due to matrix interference.

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Wet Chemistry by Method 9012B [L1542756-01,02,03,04](#)

L1542756-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1542756-01 10/11/22 11:17 • (MS) R3847075-7 10/11/22 11:19 • (MSD) R3847075-8 10/11/22 11:20

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Cyanide	1.67	ND	1.52	1.50	91.4	89.7	1	75.0-125			1.87	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
----	---

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

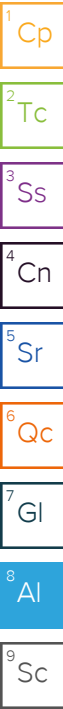
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

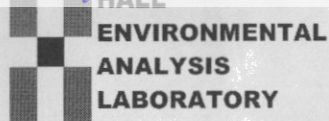
Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.





CHAIN OF CUSTODY RECORD

PAGE: 1 OF: 1

4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975
FAX: 505-345-4107

Website: www.hallenvironmental.com

1039

SUB CONTRACTOR: Pace TN		COMPANY: PACE TN		PHONE: (800) 767-5859		FAX: (615) 758-5859	
ADDRESS: 12065 Lebanon Rd				ACCOUNT #:		EMAIL:	
CITY, STATE, ZIP: Mt. Juliet, TN 37122							
ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
1	2209G13-001B	Cell #1 VZ S-1	4OZGU	Soil	9/27/2022 9:44:00 AM	1	Total Cyanide - 01
2	2209G13-002B	Cell #2 VZ S-2	4OZGU	Soil	9/27/2022 9:59:00 AM	1	Total Cyanide - 01
3	2209G13-003B	Cell #3 VZ S-4	4OZGU	Soil	9/27/2022 10:24:00 AM	1	Total Cyanide - 03
4	2209G13-004B	Cell #4 VZ S-1	4OZGU	Soil	9/27/2022 10:43:00 AM	1	Total Cyanide - 04

Sample Receipt Checklist

COC Seal Present/Intact:	☒ Y ☐ N	If Applicable	
COC Signed/Accurate:	☒ Y ☐ N	VOA Zero Headspace:	☒ Y ☐ N
Bottles arrive intact:	☒ Y ☐ N	Pres. Correct/Check:	☒ Y ☐ N
Correct bottles used:	☒ Y ☐ N		
Sufficient volume sent:	☒ Y ☐ N		
RAD Screen <0.5 mR/hr:	☒ Y ☐ N		

Fi014

SPECIAL INSTRUCTIONS / COMMENTS:

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you.

Relinquished By: <i>[Signature]</i>	Date: 10/3/2022	Time: 12:39 PM	Received By: <i>[Signature]</i>	Date: 10/4/22	Time: 0900
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

REPORT TRANSMITTAL DESIRED:

☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE

FOR LAB USE ONLY

Temp of samples **3.0** °C Attempt to Cool ? _____

Comments: _____

TAT: Standard ☒ RUSH Next BD ☐ 2nd BD ☐ 3rd BD ☐

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2209G13

19-Oct-22

Client: Animas Environmental Services**Project:** BMG Landfarm VZ Soil Samples

Sample ID: MB-70743	SampType: MBLK		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 70743		RunNo: 91834							
Prep Date: 10/11/2022	Analysis Date: 10/14/2022		SeqNo: 3293086		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrite (As N)	ND	0.30								

Sample ID: LCS-70743	SampType: LCS		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 70743		RunNo: 91834							
Prep Date: 10/11/2022	Analysis Date: 10/14/2022		SeqNo: 3293087		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrite (As N)	3.0	0.30	3.000	0	98.7	90	110			

Qualifiers:

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

Page 13 of 24

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

WO#: 2209G13

19-Oct-22

Client: Animas Environmental Services
Project: BMG Landfarm VZ Soil Samples

Sample ID: MB-70557	SampType: MBLK		TestCode: EPA Method 418.1: TPH							
Client ID: PBS	Batch ID: 70557		RunNo: 91492							
Prep Date: 10/3/2022	Analysis Date: 10/4/2022		SeqNo: 3278089		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	ND	20								

Sample ID: LCS-70557	SampType: LCS		TestCode: EPA Method 418.1: TPH							
Client ID: LCSS	Batch ID: 70557		RunNo: 91492							
Prep Date: 10/3/2022	Analysis Date: 10/4/2022		SeqNo: 3278090		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	110	20	102.7	0	103	80.2	114			

Sample ID: LCSD-70557	SampType: LCSD		TestCode: EPA Method 418.1: TPH							
Client ID: LCSS02	Batch ID: 70557		RunNo: 91492							
Prep Date: 10/3/2022	Analysis Date: 10/4/2022		SeqNo: 3278091		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	110	20	102.7	0	106	80.2	114	2.52	20	

Qualifiers:

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

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

WO#: 2209G13

19-Oct-22

Client: Animas Environmental Services**Project:** BMG Landfarm VZ Soil Samples

Sample ID: MB-70658	SampType: MBLK	TestCode: EPA Method 8011/504.1 Modified: EDB								
Client ID: PBS	Batch ID: 70658	RunNo: 91697								
Prep Date: 10/10/2022	Analysis Date: 10/10/2022	SeqNo: 3286141 Units: µg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.10								

Sample ID: LCS-70658	SampType: LCS	TestCode: EPA Method 8011/504.1 Modified: EDB								
Client ID: LCSS	Batch ID: 70658	RunNo: 91697								
Prep Date: 10/10/2022	Analysis Date: 10/10/2022	SeqNo: 3286143 Units: µg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	1.1	0.10	1.000	0	108	70	130			

Sample ID: 2209G13-001AMS	SampType: MS	TestCode: EPA Method 8011/504.1 Modified: EDB								
Client ID: Cell #1 VZ S-1	Batch ID: 70658	RunNo: 91697								
Prep Date: 10/10/2022	Analysis Date: 10/10/2022	SeqNo: 3286146 Units: µg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.99	0.099	0.9887	0	100	65	135			

Sample ID: 2209G13-001AMSD	SampType: MSD	TestCode: EPA Method 8011/504.1 Modified: EDB								
Client ID: Cell #1 VZ S-1	Batch ID: 70658	RunNo: 91697								
Prep Date: 10/10/2022	Analysis Date: 10/10/2022	SeqNo: 3286147 Units: µg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.72	0.10	1.006	0	71.6	65	135	31.5	20	R

Sample ID: MB-70658	SampType: MBLK	TestCode: EPA Method 8011/504.1 Modified: EDB								
Client ID: PBS	Batch ID: 70658	RunNo: 91697								
Prep Date: 10/10/2022	Analysis Date: 10/10/2022	SeqNo: 3286153 Units: µg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.10								

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix interference

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

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

WO#: 2209G13

19-Oct-22

Client: Animas Environmental Services**Project:** BMG Landfarm VZ Soil Samples

Sample ID: MB-70617	SampType: MBLK	TestCode: EPA Method 8082A: PCB's								
Client ID: PBS	Batch ID: 70617	RunNo: 91699								
Prep Date: 10/5/2022	Analysis Date: 10/11/2022	SeqNo: 3286180 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.025								
Aroclor 1221	ND	0.025								
Aroclor 1232	ND	0.025								
Aroclor 1242	ND	0.025								
Aroclor 1248	ND	0.025								
Aroclor 1254	ND	0.025								
Aroclor 1260	ND	0.025								
Surr: Decachlorobiphenyl	0.056		0.06250		90.4	47.2	115			
Surr: Tetrachloro-m-xylene	0.052		0.06250		84.0	15	110			

Sample ID: LCS-70617	SampType: LCS	TestCode: EPA Method 8082A: PCB's								
Client ID: LCSS	Batch ID: 70617	RunNo: 91699								
Prep Date: 10/5/2022	Analysis Date: 10/11/2022	SeqNo: 3286181 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	0.10	0.025	0.1250	0	82.6	38.2	137			
Aroclor 1260	0.11	0.025	0.1250	0	88.2	66.8	128			
Surr: Decachlorobiphenyl	0.056		0.06250		90.0	47.2	115			
Surr: Tetrachloro-m-xylene	0.047		0.06250		75.6	15	110			

Sample ID: MB-70617	SampType: MBLK	TestCode: EPA Method 8082A: PCB's								
Client ID: PBS	Batch ID: 70617	RunNo: 91699								
Prep Date: 10/5/2022	Analysis Date: 10/11/2022	SeqNo: 3286186 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.025								
Aroclor 1221	ND	0.025								
Aroclor 1232	ND	0.025								
Aroclor 1242	ND	0.025								
Aroclor 1248	ND	0.025								
Aroclor 1254	ND	0.025								
Aroclor 1260	ND	0.025								
Surr: Decachlorobiphenyl	0.058		0.06250		92.0	47.2	115			
Surr: Tetrachloro-m-xylene	0.059		0.06250		94.8	15	110			

Qualifiers:

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

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

WO#: 2209G13

19-Oct-22

Client: Animas Environmental Services
Project: BMG Landfarm VZ Soil Samples

Sample ID: ics-70499	SampType: LCS			TestCode: EPA Method 8260B: Volatiles						
Client ID: LCSS	Batch ID: 70499			RunNo: 91464						
Prep Date: 9/29/2022	Analysis Date: 9/30/2022			SeqNo: 3275537			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	108	70	130			
Toluene	0.94	0.050	1.000	0	94.0	70	130			
Chlorobenzene	1.1	0.050	1.000	0	106	70	130			
1,1-Dichloroethene	0.85	0.050	1.000	0	85.4	70	130			
Trichloroethene (TCE)	0.99	0.050	1.000	0	98.6	70	130			
Surr: Dibromofluoromethane	0.56		0.5000		112	70	130			
Surr: 1,2-Dichloroethane-d4	0.49		0.5000		98.4	70	130			
Surr: Toluene-d8	0.50		0.5000		101	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		94.3	70	130			

Sample ID: mb-70499	SampType: MBLK			TestCode: EPA Method 8260B: Volatiles						
Client ID: PBS	Batch ID: 70499			RunNo: 91464						
Prep Date: 9/29/2022	Analysis Date: 9/30/2022			SeqNo: 3275538			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Methyl tert-butyl ether (MTBE)	ND	0.050								
1,2,4-Trimethylbenzene	ND	0.050								
1,3,5-Trimethylbenzene	ND	0.050								
1,2-Dichloroethane (EDC)	ND	0.050								
1,2-Dibromoethane (EDB)	ND	0.050								
Naphthalene	ND	0.10								
1-Methylnaphthalene	ND	0.20								
2-Methylnaphthalene	ND	0.20								
Acetone	ND	0.75								
Bromobenzene	ND	0.050								
Bromodichloromethane	ND	0.050								
Bromoform	ND	0.050								
Bromomethane	ND	0.15								
2-Butanone	ND	0.50								
Carbon disulfide	ND	0.50								
Carbon tetrachloride	ND	0.050								
Chlorobenzene	ND	0.050								
Chloroethane	ND	0.10								
Chloroform	ND	0.050								
Chloromethane	ND	0.15								
2-Chlorotoluene	ND	0.050								

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2209G13

19-Oct-22

Client: Animas Environmental Services**Project:** BMG Landfarm VZ Soil Samples

Sample ID: mb-70499	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles								
Client ID: PBS	Batch ID: 70499	RunNo: 91464								
Prep Date: 9/29/2022	Analysis Date: 9/30/2022	SeqNo: 3275538	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	0.050								
cis-1,2-DCE	ND	0.050								
cis-1,3-Dichloropropene	ND	0.050								
1,2-Dibromo-3-chloropropane	ND	0.10								
Dibromochloromethane	ND	0.050								
Dibromomethane	ND	0.050								
1,2-Dichlorobenzene	ND	0.050								
1,3-Dichlorobenzene	ND	0.050								
1,4-Dichlorobenzene	ND	0.050								
Dichlorodifluoromethane	ND	0.050								
1,1-Dichloroethane	ND	0.050								
1,1-Dichloroethene	ND	0.050								
1,2-Dichloropropane	ND	0.050								
1,3-Dichloropropane	ND	0.050								
2,2-Dichloropropane	ND	0.10								
1,1-Dichloropropene	ND	0.10								
Hexachlorobutadiene	ND	0.10								
2-Hexanone	ND	0.50								
Isopropylbenzene	ND	0.050								
4-Isopropyltoluene	ND	0.050								
4-Methyl-2-pentanone	ND	0.50								
Methylene chloride	ND	0.15								
n-Butylbenzene	ND	0.15								
n-Propylbenzene	ND	0.050								
sec-Butylbenzene	ND	0.050								
Styrene	ND	0.050								
tert-Butylbenzene	ND	0.050								
1,1,1,2-Tetrachloroethane	ND	0.050								
1,1,2,2-Tetrachloroethane	ND	0.050								
Tetrachloroethene (PCE)	ND	0.050								
trans-1,2-DCE	ND	0.050								
trans-1,3-Dichloropropene	ND	0.050								
1,2,3-Trichlorobenzene	ND	0.10								
1,2,4-Trichlorobenzene	ND	0.050								
1,1,1-Trichloroethane	ND	0.050								
1,1,2-Trichloroethane	ND	0.050								
Trichloroethene (TCE)	ND	0.050								
Trichlorofluoromethane	ND	0.050								
1,2,3-Trichloropropane	ND	0.10								

Qualifiers:

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

Page 18 of 24

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2209G13

19-Oct-22

Client: Animas Environmental Services
Project: BMG Landfarm VZ Soil Samples

Sample ID: mb-70499	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles								
Client ID: PBS	Batch ID: 70499	RunNo: 91464								
Prep Date: 9/29/2022	Analysis Date: 9/30/2022	SeqNo: 3275538 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: Dibromofluoromethane	0.55		0.5000		110	70	130			
Surr: 1,2-Dichloroethane-d4	0.51		0.5000		101	70	130			
Surr: Toluene-d8	0.51		0.5000		102	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		94.7	70	130			

Qualifiers:

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

Page 19 of 24

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

WO#: 2209G13

19-Oct-22

Client: Animas Environmental Services**Project:** BMG Landfarm VZ Soil Samples

Sample ID: 2209g13-001ams	SampType: MS	TestCode: SW8270C								
Client ID: Cell #1 VZ S-1	Batch ID: 70618	RunNo: 91751								
Prep Date: 10/5/2022	Analysis Date: 10/12/2022	SeqNo: 3289351	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	0.023	0.0099	0.03310	0	70.1	70	130			
1-Methylnaphthalene	0.027	0.0099	0.03310	0	80.1	70	130			
2-Methylnaphthalene	0.027	0.0099	0.03310	0	82.1	70	130			
Acenaphthylene	0.031	0.0099	0.03310	0	94.1	70	130			
Acenaphthene	0.027	0.0099	0.03310	0	81.1	70	130			
Fluorene	0.030	0.030	0.03310	0	90.1	70	130			
Phenanthrene	0.028	0.015	0.03310	0	85.1	70	130			
Anthracene	0.034	0.015	0.03310	0.002915	93.3	70	130			
Fluoranthene	0.038	0.030	0.03310	0	114	70	130			
Pyrene	0.031	0.030	0.03310	0.001620	88.2	70	130			
Benz(a)anthracene	0.042	0.0099	0.03310	0	126	70	130			
Chrysene	0.028	0.025	0.03310	0	85.1	70	130			
Benzo(b)fluoranthene	0.036	0.030	0.03310	0	110	70	130			
Benzo(k)fluoranthene	0.029	0.0099	0.03310	0	88.1	70	130			
Benzo(a)pyrene	0.036	0.020	0.03310	0	110	70	130			
Dibenz(a,h)anthracene	0.034	0.015	0.03310	0	103	70	130			
Benzo(g,h,i)perylene	0.030	0.025	0.03310	0	92.1	70	130			
Indeno(1,2,3-cd)pyrene	0.047	0.015	0.03310	0	143	70	130			S
Surr: Nitrobenzene-d5	0.085		0.09940		85.7	15	137			
Surr: 2,4,6-Tribromophenol	0.19		0.1657		114	15	192			
Surr: 2-Fluorobiphenyl	0.080		0.09940		80.0	15	121			
Surr: 4-Terphenyl-d14	0.097		0.09940		97.3	65.7	126			

Sample ID: 2209g13-001amsd	SampType: MSD	TestCode: SW8270C								
Client ID: Cell #1 VZ S-1	Batch ID: 70618	RunNo: 91751								
Prep Date: 10/5/2022	Analysis Date: 10/13/2022	SeqNo: 3289352	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	0.020	0.0099	0.03288	0	60.1	70	130	16.0	20	S
1-Methylnaphthalene	0.024	0.0099	0.03288	0	74.1	70	130	8.45	20	
2-Methylnaphthalene	0.025	0.0099	0.03288	0	75.1	70	130	9.58	20	
Acenaphthylene	0.029	0.0099	0.03288	0	89.1	70	130	6.12	20	
Acenaphthene	0.025	0.0099	0.03288	0	77.1	70	130	5.72	20	
Fluorene	0.028	0.0099	0.03288	0	86.1	70	130	5.21	20	
Phenanthrene	0.028	0.015	0.03288	0	85.1	70	130	0.661	20	
Anthracene	0.033	0.015	0.03288	0.002915	92.2	70	130	1.65	20	
Fluoranthene	0.038	0.030	0.03288	0	116	70	130	1.08	20	
Pyrene	0.032	0.030	0.03288	0.001620	91.2	70	130	2.51	20	
Benz(a)anthracene	0.043	0.0099	0.03288	0	130	70	130	2.46	20	S

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2209G13

19-Oct-22

Client: Animas Environmental Services

Project: BMG Landfarm VZ Soil Samples

Sample ID: 2209g13-001amsd	SampType: MSD	TestCode: SW8270C								
Client ID: Cell #1 VZ S-1	Batch ID: 70618	RunNo: 91751								
Prep Date: 10/5/2022	Analysis Date: 10/13/2022	SeqNo: 3289352	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chrysene	0.029	0.025	0.03288	0	88.1	70	130	2.81	20	
Benzo(b)fluoranthene	0.037	0.030	0.03288	0	113	70	130	2.03	20	
Benzo(k)fluoranthene	0.030	0.030	0.03288	0	91.1	70	130	2.69	20	
Benzo(a)pyrene	0.037	0.020	0.03288	0	113	70	130	2.03	20	
Dibenz(a,h)anthracene	0.035	0.015	0.03288	0	106	70	130	2.21	20	
Benzo(g,h,i)perylene	0.031	0.025	0.03288	0	94.1	70	130	1.49	20	
Indeno(1,2,3-cd)pyrene	0.049	0.015	0.03288	0	148	70	130	2.78	20	S
Surr: Nitrobenzene-d5	0.075		0.09875		76.3	15	137	0	0	
Surr: 2,4,6-Tribromophenol	0.19		0.1646		113	15	192	0	0	
Surr: 2-Fluorobiphenyl	0.072		0.09875		73.0	15	121	0	0	
Surr: 4-Terphenyl-d14	0.098		0.09875		99.3	65.7	126	0	0	

Sample ID: mb-70618	SampType: MBLK	TestCode: SW8270C								
Client ID: PBS	Batch ID: 70618	RunNo: 91751								
Prep Date: 10/5/2022	Analysis Date: 10/12/2022	SeqNo: 3289353	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,4-Dioxane	ND	0.010								
Naphthalene	ND	0.010								
1-Methylnaphthalene	ND	0.010								
2-Methylnaphthalene	ND	0.010								
Acenaphthylene	ND	0.010								
Acenaphthene	ND	0.010								
Fluorene	ND	0.030								
Phenanthrene	ND	0.015								
Anthracene	ND	0.015								
Fluoranthene	ND	0.030								
Pyrene	ND	0.030								
Benz(a)anthracene	ND	0.010								
Chrysene	ND	0.025								
Benzo(b)fluoranthene	ND	0.030								
Benzo(k)fluoranthene	ND	0.030								
Benzo(a)pyrene	ND	0.020								
Dibenz(a,h)anthracene	ND	0.015								
Benzo(g,h,i)perylene	ND	0.025								
Indeno(1,2,3-cd)pyrene	ND	0.015								
Atrazine	ND	0.10								
Pentachlorophenol	ND	0.030								
Surr: Nitrobenzene-d5	0.045		0.06670		67.0	15	137			

Qualifiers:

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

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

WO#: 2209G13

19-Oct-22

Client: Animas Environmental Services**Project:** BMG Landfarm VZ Soil Samples

Sample ID: mb-70618	SampType: MBLK			TestCode: SW8270C						
Client ID: PBS	Batch ID: 70618			RunNo: 91751						
Prep Date: 10/5/2022	Analysis Date: 10/12/2022			SeqNo: 3289353			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 2,4,6-Tribromophenol	0.10		0.1334		77.2	15	192			
Surr: 2-Fluorobiphenyl	0.050		0.06670		74.5	15	121			
Surr: 4-Terphenyl-d14	0.075		0.06670		112	65.7	126			

Sample ID: lcs-70618	SampType: LCS			TestCode: SW8270C						
Client ID: LCSS	Batch ID: 70618			RunNo: 91751						
Prep Date: 10/5/2022	Analysis Date: 10/12/2022			SeqNo: 3289354			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,4-Dioxane	0.012	0.010	0.03330	0	37.0	15	81.5			
Naphthalene	0.021	0.010	0.03330	0	64.1	23.5	108			
1-Methylnaphthalene	0.024	0.010	0.03330	0	72.1	28.6	112			
2-Methylnaphthalene	0.024	0.010	0.03330	0	73.1	29.2	115			
Acenaphthylene	0.027	0.010	0.03330	0	81.1	29.6	118			
Acenaphthene	0.024	0.010	0.03330	0	72.1	29.8	111			
Fluorene	0.027	0.010	0.03330	0	81.1	36.2	123			
Phenanthrene	0.027	0.015	0.03330	0	82.1	39.8	119			
Anthracene	0.033	0.015	0.03330	0	99.1	50.2	138			
Fluoranthene	0.038	0.030	0.03330	0	114	69.7	161			
Pyrene	0.030	0.010	0.03330	0	89.1	53.9	125			
Benz(a)anthracene	0.040	0.010	0.03330	0	119	72.2	168			
Chrysene	0.028	0.025	0.03330	0	83.1	54	117			
Benzo(b)fluoranthene	0.035	0.030	0.03330	0	106	65.7	140			
Benzo(k)fluoranthene	0.029	0.010	0.03330	0	86.1	57.5	117			
Benzo(a)pyrene	0.031	0.020	0.03330	0	92.1	64.5	143			
Dibenz(a,h)anthracene	0.032	0.015	0.03330	0	97.1	67.6	146			
Benzo(g,h,i)perylene	0.029	0.025	0.03330	0	87.1	62	137			
Indeno(1,2,3-cd)pyrene	0.045	0.015	0.03330	0	134	80.8	199			
Atrazine	0.080	0.010	0.03330	0	240	15	332			
Pentachlorophenol	0.030	0.030	0.03330	0	90.1	43.4	112			
Surr: Nitrobenzene-d5	0.064		0.1000		64.0	15	137			
Surr: 2,4,6-Tribromophenol	0.15		0.1667		87.6	15	192			
Surr: 2-Fluorobiphenyl	0.067		0.1000		67.0	15	121			
Surr: 4-Terphenyl-d14	0.089		0.1000		88.7	65.7	126			

Qualifiers:

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

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

WO#: 2209G13

19-Oct-22

Client: Animas Environmental Services**Project:** BMG Landfarm VZ Soil Samples

Sample ID: MB-70781	SampType: MBLK	TestCode: EPA Method 6010B: Soil Metals								
Client ID: PBS	Batch ID: 70781	RunNo: 91825								
Prep Date: 10/12/2022	Analysis Date: 10/14/2022	SeqNo: 3292589 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Beryllium	ND	0.15								
Thallium	ND	2.5								

Sample ID: LCS-70781	SampType: LCS	TestCode: EPA Method 6010B: Soil Metals								
Client ID: LCSS	Batch ID: 70781	RunNo: 91825								
Prep Date: 10/12/2022	Analysis Date: 10/14/2022	SeqNo: 3292591 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Beryllium	23	0.15	25.00	0	92.7	80	120			
Thallium	23	2.5	25.00	0	93.1	80	120			

Sample ID: 2209G13-001AMS	SampType: MS	TestCode: EPA Method 6010B: Soil Metals								
Client ID: Cell #1 VZ S-1	Batch ID: 70781	RunNo: 91825								
Prep Date: 10/12/2022	Analysis Date: 10/14/2022	SeqNo: 3292648 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Beryllium	24	0.30	24.89	0.8499	92.3	75	125			
Thallium	18	5.0	24.89	0	73.8	75	125			S

Sample ID: 2209G13-001AMSD	SampType: MSD	TestCode: EPA Method 6010B: Soil Metals								
Client ID: Cell #1 VZ S-1	Batch ID: 70781	RunNo: 91825								
Prep Date: 10/12/2022	Analysis Date: 10/14/2022	SeqNo: 3292649 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Beryllium	23	0.30	24.87	0.8499	91.0	75	125	1.36	20	
Thallium	18	5.0	24.87	0	74.0	75	125	0.223	20	S

Sample ID: MB-70781	SampType: MBLK	TestCode: EPA Method 6010B: Soil Metals								
Client ID: PBS	Batch ID: 70781	RunNo: 91862								
Prep Date: 10/12/2022	Analysis Date: 10/18/2022	SeqNo: 3294281 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	2.5								

Sample ID: LCS-70781	SampType: LCS	TestCode: EPA Method 6010B: Soil Metals								
Client ID: LCSS	Batch ID: 70781	RunNo: 91862								
Prep Date: 10/12/2022	Analysis Date: 10/18/2022	SeqNo: 3294283 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	25	2.5	25.00	0	101	80	120			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2209G13

19-Oct-22

Client: Animas Environmental Services

Project: BMG Landfarm VZ Soil Samples

Sample ID: 2209G13-001AMS		SampType: MS		TestCode: EPA Method 6010B: Soil Metals							
Client ID: Cell #1 VZ S-1		Batch ID: 70781			RunNo: 91862						
Prep Date: 10/12/2022		Analysis Date: 10/18/2022			SeqNo: 3294296		Units: mg/Kg				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony		ND	5.0	24.89	0	10.1	75	125			S

Sample ID: 2209G13-001AMSD		SampType: MSD		TestCode: EPA Method 6010B: Soil Metals						
Client ID: Cell #1 VZ S-1		Batch ID: 70781		RunNo: 91862						
Prep Date: 10/12/2022		Analysis Date: 10/18/2022		SeqNo: 3294297		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	5.0	24.87	0	13.8	75	125	0	20	RS

Qualifiers:

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

Page 24 of 24



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: 2209G13

RcptNo: 1

Received By: Juan Rojas 9/29/2022 7:05:00 AM

Completed By: Tracy Casarrubias 9/29/2022 9:05:18 AM

Reviewed By: *SR 9/28/22 - 9/29/22*

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels? Yes ☒ No ☐
(Note discrepancies on chain of custody)
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? Yes ☒ No ☐
(If no, notify customer for authorization.)

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: *APH 9.29.22*

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.3	Good	Yes			

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.

- (4) west portion of Bernalillo County;
 (5) east portion of McKinley County; and
 (6) most of Sandoval County.

[3-14-71, 9-3-72, 8-13-76, 2-20-81, 12-1-95; 20.6.2.2102 NMAC - Rn, 20 NMAC 6.2.II.2102, 1-15-01]

20.6.2.2103 - 20.6.2.2199: [RESERVED]

[12-1-95; 20.6.2.2103 - 20.6.2.2199 NMAC - Rn, 20 NMAC 6.2.II.2103-2199, 1-15-01]

20.6.2.2200 WATERCOURSE PROTECTION:

[12-1-95; 20.6.2.2200 NMAC - Rn, 20 NMAC 6.2.II.2200, 1-15-01]

20.6.2.2201 DISPOSAL OF REFUSE: No person shall dispose of any refuse in a natural watercourse or in a location and manner where there is a reasonable probability that the refuse will be moved into a natural watercourse by leaching or otherwise. Solids diverted from the stream and returned thereto are not subject to abatement under this Section.

[4-20-68, 9-3-72; 20.6.2.2201 NMAC - Rn, 20 NMAC 6.2.II.2201, 1-15-01]

20.6.2.2202 - 20.6.2.2999: [RESERVED]

[12-1-95; 20.6.2.2202 - 20.6.2.2999 NMAC - Rn, 20 NMAC 6.2.II.2202-3100, 1-15-01]

20.6.2.3000 PERMITTING AND GROUND WATER STANDARDS:

[12-1-95; 20.6.2.3000 NMAC - Rn, 20 NMAC 6.2.III, 1-15-01]

20.6.2.3001 - 20.6.2.3100: [RESERVED]

[12-1-95; 20.6.2.3001 - 20.6.2.3100 NMAC - Rn, 20 NMAC 6.2.II.2202-3100, 1-15-01]

20.6.2.3101 PURPOSE:

A. The purpose of Sections 20.6.2.3000 through 20.6.2.3114 NMAC controlling discharges onto or below the surface of the ground is to protect all ground water of the state of New Mexico which has an existing concentration of 10,000 mg/l or less TDS, for present and potential future use as domestic and agricultural water supply, and to protect those segments of surface waters which are gaining because of ground water inflow, for uses designated in the New Mexico Water Quality Standards. Sections 20.6.2.3000 through 20.6.2.3114 NMAC are written so that in general:

(1) if the existing concentration of any water contaminant in ground water is in conformance with the standard of 20.6.2.3103 NMAC, degradation of the ground water up to the limit of the standard will be allowed; and

(2) if the existing concentration of any water contaminant in ground water exceeds the standard of Section 20.6.2.3103 NMAC, no degradation of the ground water beyond the existing concentration will be allowed.

B. Ground water standards are numbers that represent the pH range and maximum concentrations of water contaminants in the ground water which still allow for the present and future use of ground water resources.

C. The standards are not intended as maximum ranges and concentrations for use, and nothing herein contained shall be construed as limiting the use of waters containing higher ranges and concentrations.

[2-18-77; 20.6.2.3101 NMAC - Rn, 20 NMAC 6.2.III.3101, 1-15-01]

20.6.2.3102: [RESERVED]

[12-1-95; 20.6.2.3102 NMAC - Rn, 20 NMAC 6.2.III.3102, 1-15-01]

20.6.2.3103 STANDARDS FOR GROUND WATER OF 10,000 mg/l TDS CONCENTRATION OR LESS: The following standards are the allowable pH range and the maximum allowable concentration in ground water for the contaminants specified unless the existing condition exceeds the standard or unless otherwise provided in Subsection E of Section 20.6.2.3109 NMAC. Regardless of whether there is one contaminant or more than one contaminant present in ground water, when an existing pH or concentration of any water contaminant exceeds the standard specified in Subsection A, B, or C of this section, the existing pH or concentration shall be the allowable limit, provided that the discharge at such concentrations will not result in concentrations at any place of withdrawal for present or reasonably foreseeable future use in excess of the standards of this section. These standards shall apply to the dissolved portion of the contaminants specified with a definition of dissolved being that given in the publication "methods for chemical analysis of water and waste of the U.S. environmental protection agency," with the exception that standards for mercury, organic compounds and non-aqueous phase liquids shall apply to the total nonfiltered concentrations of the contaminants. If the secretary determines that there is a reasonable probability of facilitated contaminant transport by colloids or organic macromolecules, or that proper filtration procedures are not being followed, the discharger may be required to test for both filtered and nonfiltered portions of inorganic contaminants to develop appropriate protocol for monitoring contaminants that have the potential to migrate through the aquifer.

A. Human Health Standards

(1) Numerical Standards

(a)	Antimony (Sb) (CAS 7440-36-0).....	0.006 mg/l
(b)	Arsenic (As) (CAS 7440-38-2).....	0.01 mg/l
(c)	Barium (Ba) (CAS 7440-39-3).....	2 mg/l
(d)	Beryllium (be) (CAS 7440-41-7).....	0.004 mg/l
(e)	Cadmium (Cd) (CAS 7440-43-9).....	0.005 mg/l
(f)	Chromium (Cr) (CAS 7440-47-3).....	0.05 mg/l
(g)	Cyanide (CN) (CAS 57-12-5).....	0.2 mg/l
(h)	Fluoride (F) (CAS 16984-48-8).....	1.6 mg/l

(i)	Lead (Pb) (CAS 7439-92-1).....	0.015 mg/l
(j)	Total Mercury (Hg) (CAS 7439-97-6).....	0.002 mg/l
(k)	Nitrate (NO ₃ as N) (CAS 14797-55-8).....	10.0 mg/l
(l)	Nitrite (NO ₂ as N) (CAS 10102-44-0).....	1.0 mg/l
(m)	Selenium (Se) (CAS 7782-49-2).....	0.05 mg/l
(n)	Silver (Ag) (CAS 7440-224).....	0.05 mg/l
(o)	Thallium (Tl) (CAS 7440-28-0).....	0.002 mg/l
(p)	Uranium (U) (CAS 7440-61-1).....	0.03 mg/l
(q)	Radioactivity: Combined Radium-226 (CAS 13982-63-3) and Radium-228 (CAS 15262-20-1).....	5 pCi/l
(r)	Benzene (CAS 71-43-2).....	0.005 mg/l
(s)	Polychlorinated biphenyls (PCB's) (CAS 1336-36-3).....	0.0005 mg/l
(t)	Toluene (CAS 108-88-3).....	1 mg/l
(u)	Carbon Tetrachloride (CAS 56-23-5).....	0.005 mg/l
(v)	1,2-dichloroethane (EDC) (CAS 107-06-2).....	0.005 mg/l
(w)	1,1-dichloroethylene (1,1-DCE) (CAS 75-35-4).....	0.007 mg/l
(x)	tetrachloroethylene (PCE) (CAS 127-18-4).....	0.005 mg/l
(y)	trichloroethylene (TCE) (CAS 79-01-6).....	0.005 mg/l
(z)	ethylbenzene (CAS 100-41-4).....	0.7 mg/l
(aa)	total xylenes (CAS 1330-20-7).....	0.62 mg/l
(bb)	methylene chloride (CAS 75-09-2).....	0.005 mg/l
(cc)	chloroform (CAS 67-66-3).....	0.1 mg/l
(dd)	1,1-dichloroethane (CAS 75-34-3).....	0.025 mg/l
(ee)	ethylene dibromide (EDB) (CAS 106-93-4).....	0.00005 mg/l
(ff)	1,1,1-trichloroethane (CAS 71-55-6).....	0.2 mg/l
(gg)	1,1,2-trichloroethane (CAS 79-00-5).....	0.005 mg/l
(hh)	1,1,2,2-tetrachloroethane (CAS 79-34-5).....	0.01 mg/l
(ii)	vinyl chloride (CAS 75-01-4).....	0.002 mg/l
(jj)	PAHs: total naphthalene (CAS 91-20-3) plus monomethylnaphthalenes ...	0.03 mg/l
(kk)	benzo-a-pyrene (CAS 50-32-8).....	0.0002 mg/l
(ll)	cis-1,2-dichloroethene (CAS 156-59-2).....	0.07 mg/l
(mm)	trans-1,2-dichloroethene (CAS 156-60-5).....	0.1 mg/l
(nn)	1,2-dichloropropane (PDC) (CAS 78-87-5).....	0.005 mg/l
(oo)	styrene (CAS 100-42-5).....	0.1 mg/l
(pp)	1,2-dichlorobenzene (CAS 95-50-1).....	0.6 mg/l
(qq)	1,4-dichlorobenzene (CAS 106-46-7).....	0.075 mg/l
(rr)	1,2,4-trichlorobenzene (CAS 120-82-1).....	0.07 mg/l
(ss)	pentachlorophenol (CAS 87-86-5).....	0.001 mg/l
(tt)	atrazine (CAS 1912-24-9).....	0.003 mg/l

(2) **Standards for Toxic Pollutants.** A toxic pollutant shall not be present at a concentration shown by credible scientific data and other evidence appropriate under the Water Quality Act, currently available to the public, to have potential for causing one or more of the following effects upon exposure, ingestion, or assimilation either directly from the environment or indirectly by ingestion through food chains: (1) unreasonably threatens to injure human health, or the health of animals or plants which are commonly hatched, bred, cultivated or protected for use by man for food or economic benefit; as used in this definition injuries to health include death, histopathologic change, clinical symptoms of disease, behavioral abnormalities, genetic mutation, physiological malfunctions or physical deformations in such organisms or their offspring; or (2) creates a lifetime risk of more than one cancer per 100,000 exposed persons.

(3) **Standards for Non-Aqueous Phase Liquids.** Non-aqueous phase liquid shall not be present floating atop of or immersed within ground water, as can be reasonably measured.

B. Other Standards for Domestic Water Supply

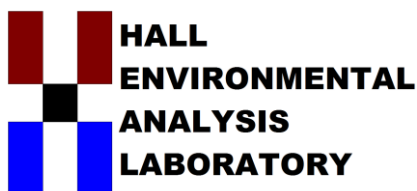
(1)	Chloride (Cl) (CAS 16887-00-6).....	250.0 mg/l
(2)	Copper (Cu) (CAS 7440-50-8).....	1.0 mg/l
(3)	Iron (Fe) (CAS 7439-89-6).....	1.0 mg/l
(4)	Manganese (Mn) (CAS 7439-96-5).....	0.2 mg/l
(5)	Phenols	0.005 mg/l
(6)	Sulfate (SO ₄) (CAS 14808-79-8).....	600.0 mg/l
(7)	Total Dissolved Solids (TDS) TDS.....	1000.0 mg/l
(8)	Zinc (Zn) (CAS 7440-66-6).....	10.0 mg/l
(9)	pH.....	between 6 and 9
(10)	Methyl tertiary-butyl ether (MTBE) (CAS 1634-04-4).....	0.1 mg/l

C. Standards for Irrigation Use - Ground water shall meet the standards of Subsection A, B, and C of this section unless otherwise provided.

(1)	Aluminum (Al) (CAS 7429-90-5).....	5.0 mg/l
(2)	Boron (B) (CAS 7440-42-8).....	0.75 mg/l
(3)	Cobalt (Co) (CAS 7440-48-4).....	0.05 mg/l
(4)	Molybdenum (Mo) (CAS 7439-98-7).....	1.0 mg/l

[illegible]

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this po



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

October 18, 2022

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

RE: BMG Landfarm MWs and Interstitial Well

OrderNo.: 2209G18

Dear Angela Ledgerwood:

Hall Environmental Analysis Laboratory received 4 sample(s) on 9/29/2022 for the analyses presented in the following report.

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

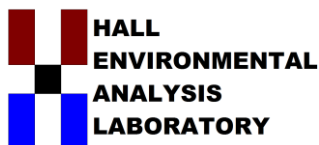
Please don't hesitate to contact HEAL for any additional information or clarifications.

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109



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

Case Narrative

WO#: 2209G18
Date: 10/18/2022

CLIENT: Animas Environmental Services

Project: BMG Landfarm MWs and Interstitial Well

Analytical Notes Regarding EPA Method 8015D DRO/MRO:

The Laboratory control spike had a low recovery. The samples were reextracted and reanalyzed to confirm the original reported results.

Analytical Report

Lab Order 2209G18

Date Reported: 10/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: MW-1

Project: BMG Landfarm MWs and Interstitial W

Collection Date: 9/27/2022 12:12:00 PM

Lab ID: 2209G18-001

Matrix: AQUEOUS

Received Date: 9/29/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	40	5.0		mg/L	10	9/30/2022 2:01:18 AM	R91427
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: SNS
Total Dissolved Solids	676	40.0	*D	mg/L	1	10/5/2022 8:58:00 AM	70542
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: DGH
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	10/4/2022 12:55:10 PM	70562
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	10/4/2022 12:55:10 PM	70562
Surr: DNOP	88.7	43.2-147		%Rec	1	10/4/2022 12:55:10 PM	70562
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	9/30/2022 11:30:00 PM	E91437
Surr: BFB	99.1	70-130		%Rec	1	9/30/2022 11:30:00 PM	E91437
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	1.0		µg/L	1	9/30/2022 11:30:00 PM	F91437
Toluene	ND	1.0		µg/L	1	9/30/2022 11:30:00 PM	F91437
Ethylbenzene	ND	1.0		µg/L	1	9/30/2022 11:30:00 PM	F91437
Xylenes, Total	ND	2.0		µg/L	1	9/30/2022 11:30:00 PM	F91437
Surr: 4-Bromofluorobenzene	94.8	70-130		%Rec	1	9/30/2022 11:30:00 PM	F91437

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

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

Analytical Report

Lab Order 2209G18

Date Reported: 10/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: MW-2

Project: BMG Landfarm MWs and Interstitial W

Collection Date: 9/27/2022 1:11:00 PM

Lab ID: 2209G18-002

Matrix: AQUEOUS

Received Date: 9/29/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	140	50		mg/L	100	9/30/2022 2:38:20 AM	R91427
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: SNS
Total Dissolved Solids	970	100	*D	mg/L	1	10/5/2022 8:58:00 AM	70542
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: DGH
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	10/4/2022 1:05:51 PM	70562
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	10/4/2022 1:05:51 PM	70562
Surr: DNOP	90.0	43.2-147		%Rec	1	10/4/2022 1:05:51 PM	70562
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	9/30/2022 11:50:00 PM	E91437
Surr: BFB	103	70-130		%Rec	1	9/30/2022 11:50:00 PM	E91437
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	1.0		µg/L	1	9/30/2022 11:50:00 PM	F91437
Toluene	ND	1.0		µg/L	1	9/30/2022 11:50:00 PM	F91437
Ethylbenzene	ND	1.0		µg/L	1	9/30/2022 11:50:00 PM	F91437
Xylenes, Total	ND	2.0		µg/L	1	9/30/2022 11:50:00 PM	F91437
Surr: 4-Bromofluorobenzene	94.6	70-130		%Rec	1	9/30/2022 11:50:00 PM	F91437

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

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

Page 3 of 11

Analytical Report

Lab Order 2209G18

Date Reported: 10/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: MW-4

Project: BMG Landfarm MWs and Interstitial W

Collection Date: 9/27/2022 12:33:00 PM

Lab ID: 2209G18-003

Matrix: AQUEOUS

Received Date: 9/29/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	71	5.0		mg/L	10	9/30/2022 2:50:40 AM	R91427
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: SNS
Total Dissolved Solids	712	40.0	*D	mg/L	1	10/5/2022 8:58:00 AM	70542
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: DGH
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	10/4/2022 1:16:33 PM	70562
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	10/4/2022 1:16:33 PM	70562
Surr: DNOP	97.1	43.2-147		%Rec	1	10/4/2022 1:16:33 PM	70562
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	10/1/2022 12:09:00 AM	E91437
Surr: BFB	101	70-130		%Rec	1	10/1/2022 12:09:00 AM	E91437
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	1.0		µg/L	1	10/1/2022 12:09:00 AM	F91437
Toluene	ND	1.0		µg/L	1	10/1/2022 12:09:00 AM	F91437
Ethylbenzene	ND	1.0		µg/L	1	10/1/2022 12:09:00 AM	F91437
Xylenes, Total	ND	2.0		µg/L	1	10/1/2022 12:09:00 AM	F91437
Surr: 4-Bromofluorobenzene	92.4	70-130		%Rec	1	10/1/2022 12:09:00 AM	F91437

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

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

Page 4 of 11

Analytical Report

Lab Order 2209G18

Date Reported: 10/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Trip Blank

Project: BMG Landfarm MWs and Interstitial W

Collection Date:

Lab ID: 2209G18-004

Matrix:

Received Date: 9/29/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	1.0		µg/L	1	9/30/2022 5:57:00 PM	B91437
Toluene	ND	1.0		µg/L	1	9/30/2022 5:57:00 PM	B91437
Ethylbenzene	ND	1.0		µg/L	1	9/30/2022 5:57:00 PM	B91437
Xylenes, Total	ND	2.0		µg/L	1	9/30/2022 5:57:00 PM	B91437
Surr: 4-Bromofluorobenzene	95.7	70-130		%Rec	1	9/30/2022 5:57:00 PM	B91437

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

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

Page 5 of 11

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2209G18
19-Oct-22

Client: Animas Environmental Services

Project: BMG Landfarm MWs and Interstitial Well

Sample ID: MB	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBW	Batch ID: R91427	RunNo: 91427								
Prep Date:	Analysis Date: 9/29/2022	SeqNo: 3273672 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID: LCS	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSW	Batch ID: R91427	RunNo: 91427								
Prep Date:	Analysis Date: 9/29/2022	SeqNo: 3273673 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.6	0.50	5.000	0	92.7	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 Quantitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 6 of 11

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

WO#: 2209G18

19-Oct-22

Client: Animas Environmental Services
Project: BMG Landfarm MWs and Interstitial Well

Sample ID: LCS-70562	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range							
Client ID: LCSW	Batch ID: 70562		RunNo: 91482							
Prep Date: 10/3/2022	Analysis Date: 10/4/2022		SeqNo: 3278078		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	1.3	1.0	2.500	0	51.6	70	130			S
Surr: DNOP	0.14		0.2500		56.8	43.2	147			

Sample ID: MB-70562	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range							
Client ID: PBW	Batch ID: 70562		RunNo: 91482							
Prep Date: 10/3/2022	Analysis Date: 10/4/2022		SeqNo: 3278079		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	0.42		0.5000		84.0	43.2	147			

Sample ID: MB-70562	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range							
Client ID: PBW	Batch ID: 70562		RunNo: 91533							
Prep Date: 10/3/2022	Analysis Date: 10/4/2022		SeqNo: 3278984		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	0.44		0.5000		87.2	43.2	147			

Sample ID: MB-70562	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range							
Client ID: PBW	Batch ID: 70562		RunNo: 91617							
Prep Date: 10/3/2022	Analysis Date: 10/6/2022		SeqNo: 3283089		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	0.36		0.5000		72.6	43.2	147			

Sample ID: LCS-70796	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range							
Client ID: LCSW	Batch ID: 70796		RunNo: 91807							
Prep Date: 10/13/2022	Analysis Date: 10/14/2022		SeqNo: 3291806		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	0.28		0.2500		112	43.2	147			

Qualifiers:

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

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

WO#: 2209G18

19-Oct-22

Client: Animas Environmental Services
Project: BMG Landfarm MWs and Interstitial Well

Sample ID: MB-70796	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range						
Client ID: PBW	Batch ID: 70796			RunNo: 91807						
Prep Date: 10/13/2022	Analysis Date: 10/14/2022			SeqNo: 3291807		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	0.47		0.5000		94.9	43.2	147			

Sample ID: LCS-70796	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range						
Client ID: LCSW	Batch ID: 70796			RunNo: 91807						
Prep Date: 10/13/2022	Analysis Date: 10/14/2022			SeqNo: 3293303		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	0.28		0.2500		113	43.2	147			

Sample ID: MB-70796	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range						
Client ID: PBW	Batch ID: 70796			RunNo: 91807						
Prep Date: 10/13/2022	Analysis Date: 10/14/2022			SeqNo: 3293304		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	0.49		0.5000		97.1	43.2	147			

Qualifiers:

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

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

WO#: 2209G18

19-Oct-22

Client: Animas Environmental Services
Project: BMG Landfarm MWs and Interstitial Well

Sample ID: 2.5ug gro lcs2	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSW	Batch ID: E91437			RunNo: 91437						
Prep Date:	Analysis Date: 9/30/2022			SeqNo: 3275417		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.49	0.050	0.5000	0	98.5	80	120			
Surr: BFB	47		20.00		233	70	130			S

Sample ID: mb2	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBW	Batch ID: E91437			RunNo: 91437						
Prep Date:	Analysis Date: 9/30/2022			SeqNo: 3275418		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	21		20.00		103	70	130			

Sample ID: 2209g18-001a ms	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: MW-1	Batch ID: E91437			RunNo: 91437						
Prep Date:	Analysis Date: 10/1/2022			SeqNo: 3275422		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.45	0.050	0.5000	0	89.2	70	130			
Surr: BFB	43		20.00		216	70	130			S

Sample ID: 2209G18-001A MSD	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: MW-1	Batch ID: E91437			RunNo: 91437						
Prep Date:	Analysis Date: 10/1/2022			SeqNo: 3275423		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.44	0.050	0.5000	0	88.2	70	130	1.22	20	
Surr: BFB	42		20.00		212	70	130	0	0	S

Qualifiers:

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

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

WO#: 2209G18

19-Oct-22

Client: Animas Environmental Services
Project: BMG Landfarm MWs and Interstitial Well

Sample ID: 100ng btex lcs	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSW	Batch ID: B91437			RunNo: 91437						
Prep Date:	Analysis Date: 9/30/2022			SeqNo: 3275424			Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	92.4	70	130			
Toluene	19	1.0	20.00	0	93.4	70	130			
Ethylbenzene	19	1.0	20.00	0	94.7	70	130			
Xylenes, Total	56	2.0	60.00	0	92.9	70	130			
Surr: 4-Bromofluorobenzene	19		20.00		97.4	70	130			

Sample ID: mb	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBW	Batch ID: B91437			RunNo: 91437						
Prep Date:	Analysis Date: 9/30/2022			SeqNo: 3275425			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		98.6	70	130			

Sample ID: 100ng btex lcs2	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSW	Batch ID: F91437			RunNo: 91437						
Prep Date:	Analysis Date: 9/30/2022			SeqNo: 3275432			Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	93.4	70	130			
Toluene	19	1.0	20.00	0	94.8	70	130			
Ethylbenzene	19	1.0	20.00	0	95.6	70	130			
Xylenes, Total	57	2.0	60.00	0	94.3	70	130			
Surr: 4-Bromofluorobenzene	19		20.00		96.2	70	130			

Sample ID: mb2	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBW	Batch ID: F91437			RunNo: 91437						
Prep Date:	Analysis Date: 9/30/2022			SeqNo: 3275433			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	19		20.00		94.9	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2209G18
19-Oct-22

Client: Animas Environmental Services

Project: BMG Landfarm MWs and Interstitial Well

Sample ID: MB-70542	SampType: MBLK	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: PBW	Batch ID: 70542	RunNo: 91532								
Prep Date: 10/3/2022	Analysis Date: 10/5/2022	SeqNo: 3278878 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-70542	SampType: LCS	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: LCSW	Batch ID: 70542	RunNo: 91532								
Prep Date: 10/3/2022	Analysis Date: 10/5/2022	SeqNo: 3278879 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1030	20.0	1000	0	103	80	120			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 11 of 11



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: 2209G18

RcptNo: 1

Received By: Juan Rojas

9/29/2022 7:05:00 AM

Juan Rojas

Completed By: Tracy Casarrubias

9/29/2022 9:57:49 AM

Reviewed By:

ma 9/29/22

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: *TMC 9/29/22*

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

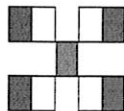
Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.3	Good	Yes			



**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

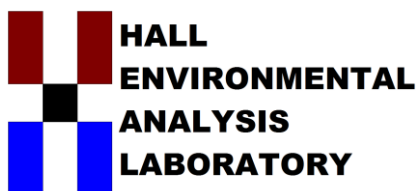
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Chain-of-Custody Record				Turn-Around Time:			
Client:		Animas Environmental Services		☒ Standard		☐ Rush	
Mailing Address:				Project Name:			
P.O. Box 8				BMG Landfarm - MWs & interstitial well			
Farmington, NM 87499-0008				Project #:			
Phone #: 720-537-6650				AES 040605			
email or Fax#: aledgerwood@animasenvironmental.com				Project Manager:			
QA/QC Package:				Angela Ledgerwood			
☒ Standard		☐ Level 4 (Full Validation)		Elizabeth McNally			
Accreditation:		☐ Az Compliance		Sampler:			
☐ NELAC		☐ Other		On Ice: ☒ Yes ☐ No			
☐ EDD (Type)				# of Coolers: 1			
				Cooler Temp (including CF): 54.0/53.3			
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	
9-27-22	12:12	GW	MW-1	(3) 40 mL glass (1) 250 mL amber glass	3-HgCl2 cool 2-Non	2209618	
9-27-22	13:11	GW	MW-2	(1) 500 mL plastic (3) 40 mL glass (1) 250 mL amber glass	3-HgCl2 cool 2-Non	001	
		GW	MW-3	(1) 500 mL plastic (3) 40 mL glass (1) 250 mL amber glass	3-HgCl2 cool 2-Non	002	
9-27-22	12:33	GW	MW-4	(1) 500 mL plastic (3) 40 mL glass (1) 250 mL amber glass	3-HgCl2 cool 2-Non	003	
		W	Trip Blank	(2) 40 mL glass	Cold	004	
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time	
9/28/22	1524	<i>[Signature]</i>	<i>[Signature]</i>		9/28/22	1526	
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time	
9/28/22	1841	<i>[Signature]</i>	<i>[Signature]</i>		9/29/22	7:00	

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

Please direct-bill this project to BMG.



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

January 24, 2023

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

RE: BMG Landfarm VZ Soil Samples

OrderNo.: 2211E75

Dear Angela Ledgerwood:

Hall Environmental Analysis Laboratory received 4 sample(s) on 11/30/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2211E75

Date Reported: 1/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #1 VZ S-1

Project: BMG Landfarm VZ Soil Samples

Collection Date: 11/29/2022 9:15:00 AM

Lab ID: 2211E75-001

Matrix: SOIL

Received Date: 11/30/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/3/2022 1:40:21 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/3/2022 1:40:21 AM
Surr: DNOP	96.9	21-129		%Rec	1	12/3/2022 1:40:21 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/3/2022 2:40:52 AM
Surr: BFB	86.7	37.7-212		%Rec	1	12/3/2022 2:40:52 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	12/3/2022 2:40:52 AM
Toluene	ND	0.046		mg/Kg	1	12/3/2022 2:40:52 AM
Ethylbenzene	ND	0.046		mg/Kg	1	12/3/2022 2:40:52 AM
Xylenes, Total	ND	0.093		mg/Kg	1	12/3/2022 2:40:52 AM
Surr: 4-Bromofluorobenzene	90.1	70-130		%Rec	1	12/3/2022 2:40:52 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Fluoride	3.2	1.5		mg/Kg	5	12/6/2022 6:20:35 PM
Chloride	970	30		mg/Kg	20	12/6/2022 6:33:00 PM
Nitrogen, Nitrite (As N)	ND	1.5		mg/Kg	5	12/6/2022 6:20:35 PM
Nitrogen, Nitrate (As N)	ND	1.5		mg/Kg	5	12/6/2022 6:20:35 PM
Sulfate	13	7.5		mg/Kg	5	12/12/2022 6:26:45 PM
EPA METHOD 6020A: TOTAL METALS						Analyst: ELS
Arsenic	3.7	0.49		mg/Kg	5	12/7/2022 1:49:05 PM
Lead	9.7	0.49		mg/Kg	5	12/7/2022 1:49:05 PM
Selenium	3.1	0.50		mg/Kg	5	12/14/2022 1:03:15 PM
Uranium	0.88	0.49		mg/Kg	5	12/7/2022 1:49:05 PM
EPA METHOD 7471B: MERCURY						Analyst: VP
Mercury	ND	0.033		mg/Kg	1	12/21/2022 3:18:11 PM
EPA METHOD 6010B: SOIL METALS						Analyst: JRR
Barium	120	0.20		mg/Kg	2	12/9/2022 10:03:45 AM
Cadmium	ND	0.20		mg/Kg	2	12/9/2022 10:03:45 AM
Chromium	14	0.59		mg/Kg	2	12/9/2022 10:03:45 AM
Copper	12	4.0		mg/Kg	2	12/14/2022 10:50:38 AM
Iron	20000	2000		mg/Kg	200	12/22/2022 9:21:50 AM
Manganese	240	0.40		mg/Kg	2	12/14/2022 10:50:38 AM
Silver	ND	0.99		mg/Kg	2	12/14/2022 10:50:38 AM
Zinc	37	5.0		mg/Kg	2	12/14/2022 10:50:38 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: DAM
Pentachlorophenol	ND	0.39		mg/Kg	1	12/12/2022 10:29:52 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix
	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.

B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report

Lab Order 2211E75

Date Reported: 1/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #1 VZ S-1

Project: BMG Landfarm VZ Soil Samples

Collection Date: 11/29/2022 9:15:00 AM

Lab ID: 2211E75-001

Matrix: SOIL

Received Date: 11/30/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: DAM
Surr: 2,4,6-Tribromophenol	85.5	33.8-106		%Rec	1	12/12/2022 10:29:52 PM
Surr: 2-Fluorobiphenyl	88.4	21.1-76.5	S	%Rec	1	12/12/2022 10:29:52 PM
Surr: 4-Terphenyl-d14	104	70-109		%Rec	1	12/12/2022 10:29:52 PM

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

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

Page 2 of 17

Analytical Report

Lab Order 2211E75

Date Reported: 1/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #2 VZ S-2

Project: BMG Landfarm VZ Soil Samples

Collection Date: 11/29/2022 9:55:00 AM

Lab ID: 2211E75-002

Matrix: SOIL

Received Date: 11/30/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/3/2022 1:53:09 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/3/2022 1:53:09 AM
Surr: DNOP	94.6	21-129		%Rec	1	12/3/2022 1:53:09 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/3/2022 3:04:12 AM
Surr: BFB	88.2	37.7-212		%Rec	1	12/3/2022 3:04:12 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/3/2022 3:04:12 AM
Toluene	ND	0.049		mg/Kg	1	12/3/2022 3:04:12 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/3/2022 3:04:12 AM
Xylenes, Total	ND	0.097		mg/Kg	1	12/3/2022 3:04:12 AM
Surr: 4-Bromofluorobenzene	91.5	70-130		%Rec	1	12/3/2022 3:04:12 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Fluoride	ND	1.5		mg/Kg	5	12/6/2022 7:35:01 PM
Chloride	16	7.5		mg/Kg	5	12/6/2022 7:35:01 PM
Nitrogen, Nitrite (As N)	ND	1.5		mg/Kg	5	12/6/2022 7:35:01 PM
Nitrogen, Nitrate (As N)	16	1.5		mg/Kg	5	12/6/2022 7:35:01 PM
Sulfate	95	7.5		mg/Kg	5	12/12/2022 6:51:27 PM
EPA METHOD 6020A: TOTAL METALS						Analyst: ELS
Arsenic	4.5	0.50		mg/Kg	5	12/7/2022 1:57:23 PM
Lead	8.3	0.50		mg/Kg	5	12/7/2022 1:57:23 PM
Selenium	3.1	0.50		mg/Kg	5	12/14/2022 1:04:41 PM
Uranium	ND	0.50		mg/Kg	5	12/7/2022 1:57:23 PM
EPA METHOD 7471B: MERCURY						Analyst: VP
Mercury	ND	0.033		mg/Kg	1	12/21/2022 3:20:18 PM
EPA METHOD 6010B: SOIL METALS						Analyst: JRR
Barium	160	0.20		mg/Kg	2	12/9/2022 10:05:02 AM
Cadmium	ND	0.20		mg/Kg	2	12/9/2022 10:05:02 AM
Chromium	8.6	0.60		mg/Kg	2	12/9/2022 10:05:02 AM
Copper	8.7	4.0		mg/Kg	2	12/14/2022 11:07:01 AM
Iron	16000	2000		mg/Kg	200	12/22/2022 9:23:34 AM
Manganese	340	0.40		mg/Kg	2	12/14/2022 11:07:01 AM
Silver	ND	1.0		mg/Kg	2	12/14/2022 11:07:01 AM
Zinc	32	5.0		mg/Kg	2	12/14/2022 11:07:01 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: DAM
Pentachlorophenol	ND	0.40		mg/Kg	1	12/12/2022 11:11:07 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix
	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.

B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report

Lab Order 2211E75

Date Reported: 1/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #2 VZ S-2

Project: BMG Landfarm VZ Soil Samples

Collection Date: 11/29/2022 9:55:00 AM

Lab ID: 2211E75-002

Matrix: SOIL

Received Date: 11/30/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: DAM
Surr: 2,4,6-Tribromophenol	80.2	33.8-106		%Rec	1	12/12/2022 11:11:07 PM
Surr: 2-Fluorobiphenyl	82.5	21.1-76.5	S	%Rec	1	12/12/2022 11:11:07 PM
Surr: 4-Terphenyl-d14	99.0	70-109		%Rec	1	12/12/2022 11:11:07 PM

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

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

Page 4 of 17

Analytical Report

Lab Order 2211E75

Date Reported: 1/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #3 VZ S-4

Project: BMG Landfarm VZ Soil Samples

Collection Date: 11/29/2022 10:27:00 AM

Lab ID: 2211E75-003

Matrix: SOIL

Received Date: 11/30/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/3/2022 7:20:05 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/3/2022 7:20:05 AM
Surr: DNOP	102	21-129		%Rec	1	12/3/2022 7:20:05 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/3/2022 3:27:33 AM
Surr: BFB	89.6	37.7-212		%Rec	1	12/3/2022 3:27:33 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	12/3/2022 3:27:33 AM
Toluene	ND	0.050		mg/Kg	1	12/3/2022 3:27:33 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/3/2022 3:27:33 AM
Xylenes, Total	ND	0.099		mg/Kg	1	12/3/2022 3:27:33 AM
Surr: 4-Bromofluorobenzene	92.9	70-130		%Rec	1	12/3/2022 3:27:33 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Fluoride	2.1	1.5		mg/Kg	5	12/6/2022 7:59:49 PM
Chloride	ND	7.5		mg/Kg	5	12/6/2022 7:59:49 PM
Nitrogen, Nitrite (As N)	ND	1.5		mg/Kg	5	12/6/2022 7:59:49 PM
Nitrogen, Nitrate (As N)	1.7	1.5		mg/Kg	5	12/6/2022 7:59:49 PM
Sulfate	9.3	7.5		mg/Kg	5	12/12/2022 7:16:08 PM
EPA METHOD 6020A: TOTAL METALS						Analyst: ELS
Arsenic	4.7	0.50		mg/Kg	5	12/7/2022 2:01:31 PM
Lead	8.6	0.50		mg/Kg	5	12/8/2022 10:02:31 AM
Selenium	3.0	0.50		mg/Kg	5	12/14/2022 1:06:06 PM
Uranium	0.67	0.50		mg/Kg	5	12/7/2022 2:01:31 PM
EPA METHOD 7471B: MERCURY						Analyst: VP
Mercury	ND	0.033		mg/Kg	1	12/21/2022 3:22:26 PM
EPA METHOD 6010B: SOIL METALS						Analyst: JRR
Barium	110	0.20		mg/Kg	2	12/9/2022 10:06:18 AM
Cadmium	ND	0.20		mg/Kg	2	12/9/2022 10:06:18 AM
Chromium	8.4	0.60		mg/Kg	2	12/9/2022 10:06:18 AM
Copper	7.1	4.0		mg/Kg	2	12/14/2022 11:08:53 AM
Iron	16000	2000		mg/Kg	200	12/22/2022 9:25:18 AM
Manganese	400	40		mg/Kg	200	12/22/2022 9:25:18 AM
Silver	ND	1.0		mg/Kg	2	12/14/2022 11:08:53 AM
Zinc	31	5.0		mg/Kg	2	12/14/2022 11:08:53 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: DAM
Pentachlorophenol	ND	0.38		mg/Kg	1	12/12/2022 11:51:19 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix
	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.

B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report

Lab Order 2211E75

Date Reported: 1/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #3 VZ S-4

Project: BMG Landfarm VZ Soil Samples

Collection Date: 11/29/2022 10:27:00 AM

Lab ID: 2211E75-003

Matrix: SOIL

Received Date: 11/30/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: DAM
Surr: 2,4,6-Tribromophenol	69.1	33.8-106		%Rec	1	12/12/2022 11:51:19 PM
Surr: 2-Fluorobiphenyl	74.3	21.1-76.5		%Rec	1	12/12/2022 11:51:19 PM
Surr: 4-Terphenyl-d14	98.1	70-109		%Rec	1	12/12/2022 11:51:19 PM

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

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

Page 6 of 17

Analytical Report

Lab Order 2211E75

Date Reported: 1/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #4 VZ S-1

Project: BMG Landfarm VZ Soil Samples

Collection Date: 11/29/2022 10:52:00 AM

Lab ID: 2211E75-004

Matrix: SOIL

Received Date: 11/30/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/3/2022 7:34:11 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/3/2022 7:34:11 AM
Surr: DNOP	110	21-129		%Rec	1	12/3/2022 7:34:11 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/3/2022 3:50:58 AM
Surr: BFB	87.1	37.7-212		%Rec	1	12/3/2022 3:50:58 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/3/2022 3:50:58 AM
Toluene	ND	0.049		mg/Kg	1	12/3/2022 3:50:58 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/3/2022 3:50:58 AM
Xylenes, Total	ND	0.097		mg/Kg	1	12/3/2022 3:50:58 AM
Surr: 4-Bromofluorobenzene	90.5	70-130		%Rec	1	12/3/2022 3:50:58 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Fluoride	3.2	1.5		mg/Kg	5	12/6/2022 8:24:38 PM
Chloride	9.4	7.5		mg/Kg	5	12/6/2022 8:24:38 PM
Nitrogen, Nitrite (As N)	ND	1.5		mg/Kg	5	12/6/2022 8:24:38 PM
Nitrogen, Nitrate (As N)	ND	1.5		mg/Kg	5	12/6/2022 8:24:38 PM
Sulfate	23	7.5		mg/Kg	5	12/12/2022 7:40:50 PM
EPA METHOD 6020A: TOTAL METALS						Analyst: ELS
Arsenic	4.5	0.50		mg/Kg	5	12/7/2022 2:13:57 PM
Lead	13	0.50		mg/Kg	5	12/7/2022 2:13:57 PM
Selenium	4.2	0.50		mg/Kg	5	12/15/2022 10:18:20 AM
Uranium	1.5	0.50		mg/Kg	5	12/7/2022 2:13:57 PM
EPA METHOD 7471B: MERCURY						Analyst: VP
Mercury	ND	0.033		mg/Kg	1	12/21/2022 3:24:34 PM
EPA METHOD 6010B: SOIL METALS						Analyst: JRR
Barium	130	0.20		mg/Kg	2	12/14/2022 11:10:43 AM
Cadmium	ND	0.20		mg/Kg	2	12/14/2022 11:10:43 AM
Chromium	19	0.60		mg/Kg	2	12/14/2022 11:10:43 AM
Copper	16	4.0		mg/Kg	2	12/14/2022 11:10:43 AM
Iron	25000	2000		mg/Kg	200	12/22/2022 9:27:03 AM
Manganese	280	0.40		mg/Kg	2	12/14/2022 11:10:43 AM
Silver	ND	1.0		mg/Kg	2	12/14/2022 11:10:43 AM
Zinc	45	5.0		mg/Kg	2	12/14/2022 11:10:43 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: DAM
Pentachlorophenol	ND	0.40		mg/Kg	1	12/13/2022 12:32:33 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix
	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.

B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report

Lab Order 2211E75

Date Reported: 1/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Cell #4 VZ S-1

Project: BMG Landfarm VZ Soil Samples

Collection Date: 11/29/2022 10:52:00 AM

Lab ID: 2211E75-004

Matrix: SOIL

Received Date: 11/30/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: DAM
Surr: 2,4,6-Tribromophenol	78.5	33.8-106		%Rec	1	12/13/2022 12:32:33 AM
Surr: 2-Fluorobiphenyl	88.6	21.1-76.5	S	%Rec	1	12/13/2022 12:32:33 AM
Surr: 4-Terphenyl-d14	93.1	70-109		%Rec	1	12/13/2022 12:32:33 AM

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

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

Page 8 of 17



ANALYTICAL REPORT

January 23, 2023

Hall Environmental Analysis Laboratory

Sample Delivery Group: L1577158

Samples Received: 12/01/2022

Project Number:

Description:

Report To: Andy Freeman
4901 Hawkins NE
Albuquerque, NM 87109

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Entire Report Reviewed By:

A handwritten signature in blue ink that reads "John V. Hawkins".

John Hawkins
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	² Tc
Cn: Case Narrative	4	
Sr: Sample Results	5	³ Ss
2211E75-001B CELL #1 VZ S-1 L1577158-01	5	
2211E75-002B CELL #2 VZ S-2 L1577158-02	6	⁴ Cn
2211E75-003B CELL #3 VZ S-4 L1577158-03	7	⁵ Sr
2211E75-004B CELL #4 VZ S-1 L1577158-04	8	
Qc: Quality Control Summary	9	⁶ Qc
Wet Chemistry by Method 9066	9	
Gl: Glossary of Terms	10	⁷ Gl
Al: Accreditations & Locations	11	⁸ Al
Sc: Sample Chain of Custody	12	⁹ Sc

2211E75-001B CELL #1 VZ S-1 L1577158-01 Solid

				Collected by	Collected date/time	Received date/time
					11/29/22 09:15	12/01/22 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9066	WG1992327	1	01/21/23 08:43	01/22/23 16:31	LDT	Mt. Juliet, TN

1
Cp

2
Tc

3
Ss

2211E75-002B CELL #2 VZ S-2 L1577158-02 Solid

				Collected by	Collected date/time	Received date/time
					11/29/22 09:55	12/01/22 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9066	WG1992327	1	01/21/23 08:43	01/22/23 16:32	LDT	Mt. Juliet, TN

4
Cn

5
Sr

2211E75-003B CELL #3 VZ S-4 L1577158-03 Solid

				Collected by	Collected date/time	Received date/time
					11/29/22 10:27	12/01/22 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9066	WG1992327	1	01/21/23 08:43	01/22/23 16:35	LDT	Mt. Juliet, TN

6
Qc

7
Gl

8
Al

2211E75-004B CELL #4 VZ S-1 L1577158-04 Solid

				Collected by	Collected date/time	Received date/time
					11/29/22 10:52	12/01/22 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9066	WG1992327	1	01/21/23 08:43	01/22/23 16:37	LDT	Mt. Juliet, TN

9
Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



John Hawkins
Project Manager

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Collected date/time: 11/29/22 09:15

L1577158

Wet Chemistry by Method 9066

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Total Phenol by 4AAP	ND	T8	0.670	1	01/22/2023 16:31	WG1992327

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Collected date/time: 11/29/22 09:55

L1577158

Wet Chemistry by Method 9066

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Total Phenol by 4AAP	ND	T8	0.670	1	01/22/2023 16:32	WG1992327

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Collected date/time: 11/29/22 10:27

L1577158

Wet Chemistry by Method 9066

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Total Phenol by 4AAP	ND	T8	0.670	1	01/22/2023 16:35	WG1992327

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Collected date/time: 11/29/22 10:52

L1577158

Wet Chemistry by Method 9066

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Total Phenol by 4AAP	ND	T8	0.670	1	01/22/2023 16:37	WG1992327

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Wet Chemistry by Method 9066

L1577158-01,02,03,04

Method Blank (MB)

(MB) R3883266-1 01/22/23 16:28

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Total Phenol by 4AAP	U		0.220	0.670

L1577158-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1577158-01 01/22/23 16:31 • (DUP) R3883266-3 01/22/23 16:31

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP RPD Limits %
Total Phenol by 4AAP	ND	ND	1	200	20

Laboratory Control Sample (LCS)

(LCS) R3883266-2 01/22/23 16:28

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Phenol by 4AAP	8.33	8.08	97.0	72.1-129	

L1577158-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1577158-02 01/22/23 16:32 • (MS) R3883266-4 01/22/23 16:33 • (MSD) R3883266-5 01/22/23 16:34

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Total Phenol by 4AAP	16.7	ND	16.2	16.2	96.8	96.8	1	15.4-151			0.000	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

QualifierDescription

T8	Sample(s) received past/too close to holding time expiration.
----	---

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

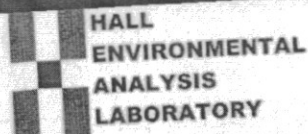
Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



CHAIN OF CUSTODY RECORD

PAGE: 1 OF: 1

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

F117

SUB CONTRACTOR: Pace TN		COMPANY: PACE TN		PHONE: (800) 767-5859		FAX: (615) 758-5859	
ADDRESS: 12065 Lebanon Rd				ACCOUNT #:		EMAIL:	
CITY, STATE, ZIP: Mt. Juliet, TN 37122							
ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
1	2211E75-001B	Cell #1 VZ S-1	4OZGU	Soil	11/29/2022 9:15:00 AM	1	Rad 226, Phenols in Soil -01
2	2211E75-002B	Cell #2 VZ S-2	4OZGU	Soil	11/29/2022 9:55:00 AM	1	Rad 226, Phenols in Soil -02
3	2211E75-003B	Cell #3 VZ S-4	4OZGU	Soil	11/29/2022 10:27:00 AM	1	Rad 226, Phenols in Soil -03
4	2211E75-004B	Cell #4 VZ S-1	4OZGU	Soil	11/29/2022 10:52:00 AM	1	Rad 226, Phenols in Soil -04

Sample Receipt Checklist

COC Seal Present/Intact: ☒ Y ☐ N If Applicable

COC Signed/Accurate: ☒ Y ☐ N VOA Zero Headspace: ☐ Y ☐ N

Bottles arrive intact: ☒ Y ☐ N Pres. Correct/Check: ☐ Y ☐ N

Correct bottles used: ☒ Y ☐ N

Sufficient volume sent: ☒ Y ☐ N

RAD Screen <0.5 mR/hr: ☒ Y ☐ N

6.8116 3.3 10 = 3.3

SPECIAL INSTRUCTIONS / COMMENTS:

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you.

Relinquished By: <i>su</i>	Date: 11/30/2022	Time: 10:34 AM	Received By: <i>Lat</i>	Date: 12-1-22	Time: 09:16	REPORT TRANSMITTAL DESIRED:	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	☐ HARDCOPY (extra cost)	☐ FAX ☐ EMAIL ☐ ONLINE
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	FOR LAB USE ONLY	
TAT: Standard ☒ RUSH ☐ Next BD ☐ 2nd BD ☐ 3rd BD ☐						Temp of samples _____ C Attempt to Cool? _____	
						Comments: _____	

L156272901,02,03,04

R2/R3/R4/RX/EX

L1562729 please see if any sample remains to run Total Phenol 9056

Also logged under L1562730 (RAD)

Time estimate: 0h

Time spent: 0h

Members

 John V Hawkins



ANALYTICAL REPORT

December 21, 2022

Hall Environmental Analysis Laboratory

Sample Delivery Group: L1562730

Samples Received: 12/01/2022

Project Number:

Description:

Report To: Andy Freeman

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Entire Report Reviewed By:

A handwritten signature in blue ink, appearing to read "Donna Eidson".

Donna Eidson
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	² Tc
Cn: Case Narrative	4	
Sr: Sample Results	5	³ Ss
2211E75-001B CELL #1 VZ S-1 L1562730-01	5	
2211E75-002B CELL #2 VZ S-2 L1562730-02	6	⁴ Cn
2211E75-003B CELL #3 VZ S-4 L1562730-03	7	⁵ Sr
2211E75-004B CELL #4 VZ S-1 L1562730-04	8	
Qc: Quality Control Summary	9	⁶ Qc
Radiochemistry by Method SM7500Ra B M	9	
Gl: Glossary of Terms	10	⁷ Gl
Al: Accreditations & Locations	11	⁸ Al
Sc: Sample Chain of Custody	12	⁹ Sc

2211E75-001B CELL #1 VZ S-1 L1562730-01 Solids and Chemical Materials

Collected by
Collected date/time
Received date/time

11/29/22 09:15
12/01/22 09:00

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method SM7500Ra B M	WG1973787	1	12/14/22 09:47	12/20/22 09:47	RGT	Mt. Juliet, TN

2211E75-002B CELL #2 VZ S-2 L1562730-02 Solids and Chemical Materials

Collected by
Collected date/time
Received date/time

11/29/22 09:55
12/01/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method SM7500Ra B M	WG1973787	1	12/14/22 09:47	12/20/22 09:47	RGT	Mt. Juliet, TN

2211E75-003B CELL #3 VZ S-4 L1562730-03 Solids and Chemical Materials

Collected by
Collected date/time
Received date/time

11/29/22 10:27
12/01/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method SM7500Ra B M	WG1973787	1	12/14/22 09:47	12/20/22 09:47	RGT	Mt. Juliet, TN

2211E75-004B CELL #4 VZ S-1 L1562730-04 Solids and Chemical Materials

Collected by
Collected date/time
Received date/time

11/29/22 10:52
12/01/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method SM7500Ra B M	WG1973787	1	12/14/22 09:47	12/20/22 09:47	RGT	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Donna Eidson
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ Gl
- ⁸ Al
- ⁹ Sc

Collected date/time: 11/29/22 09:15

L1562730

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/g		+ / -	pCi/g	date / time	
RADIUM-226	0.510		0.143	0.0806	12/20/2022 09:47	WG1973787
(T) Barium-133	96.8			30.0-110	12/20/2022 09:47	WG1973787

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Collected date/time: 11/29/22 09:55

L1562730

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/g		+ / -	pCi/g	date / time	
RADIUM-226	0.570		0.152	0.0823	12/20/2022 09:47	WG1973787
(T) Barium-133	91.5			30.0-110	12/20/2022 09:47	WG1973787

- 1Cp
- 2Tc
- 3Ss
- 4Cn
- 5Sr
- 6Qc
- 7Gl
- 8Al
- 9Sc

Collected date/time: 11/29/22 10:27

L1562730

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/g		+ / -	pCi/g	date / time	
RADIUM-226	0.423		0.134	0.0853	12/20/2022 09:47	WG1973787
(T) Barium-133	92.4			30.0-110	12/20/2022 09:47	WG1973787

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Collected date/time: 11/29/22 10:52

L1562730

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/g		+ / -	pCi/g	date / time	
RADIUM-226	0.747		0.166	0.0545	12/20/2022 09:47	WG1973787
(T) Barium-133	95.7			30.0-110	12/20/2022 09:47	WG1973787

- 1Cp
- 2Tc
- 3Ss
- 4Cn
- 5Sr
- 6Qc
- 7Gl
- 8Al
- 9Sc

Method Blank (MB)

(MB) R3873938-1 12/19/22 12:07

Analyte	MB Result	MB Qualifier	MB Uncertainty	MB MDA
	pCi/g		+ / -	pCi/g
Radium-226	0.0181	<u>U</u>	0.0491	0.0839
(T) Barium-133	91.7		91.7	

L1562730-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1562730-04 12/20/22 09:47 • (DUP) R3873938-5 12/19/22 12:07

Analyte	Original Result	Original Uncertainty	Original MDA	DUP Result	DUP Uncertainty	DUP MDA	Dilution	DUP RPD	DUP RER	DUP Qualifier	DUP RPD Limits	DUP RER Limit
	pCi/g	+ / -	pCi/g	pCi/g	+ / -	pCi/g		%			%	
Radium-226	0.747	0.166	0.0545	0.975	0.196	0.0545	1	26.4	0.885		20	3
(T) Barium-133	95.7			94.4	94.4							

Laboratory Control Sample (LCS)

(LCS) R3873938-2 12/19/22 12:07

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	pCi/g	pCi/g	%	%	
Radium-226	3.79	4.11	108	65.0-132	
(T) Barium-133			91.7		

L1558395-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1558395-09 12/19/22 12:07 • (MS) R3873938-3 12/19/22 12:07 • (MSD) R3873938-4 12/19/22 12:07

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	MS RER	RPD Limits
	pCi/g	pCi/g	pCi/g	pCi/g	%	%		%			%		%
Radium-226	4.99	0.507	5.49	4.85	99.9	87.1	1	60.0-140			12.4		20
(T) Barium-133		86.6			90.3	97.0							

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDA	Minimum Detectable Activity.
Rec.	Recovery.
RER	Replicate Error Ratio.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

U	Below Detectable Limits: Indicates that the analyte was not detected.
---	---

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 AI

9 Sc

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

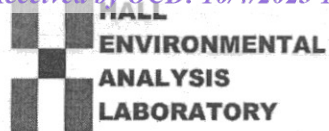
Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



CHAIN OF CUSTODY RECORD

PAGE: 1 OF: 1

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

F117

SUB CONTRACTOR: Pace TN		COMPANY: PACE TN		PHONE: (800) 767-5859		FAX: (615) 758-5859	
ADDRESS: 12065 Lebanon Rd				ACCOUNT #:		EMAIL:	
CITY, STATE, ZIP: Mt. Juliet, TN 37122							
ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
1	2211E75-001B	Cell #1 VZ S-1	4OZGU	Soil	11/29/2022 9:15:00 AM	1	Rad 226, Phenols in Soil -01
2	2211E75-002B	Cell #2 VZ S-2	4OZGU	Soil	11/29/2022 9:55:00 AM	1	Rad 226, Phenols in Soil -02
3	2211E75-003B	Cell #3 VZ S-4	4OZGU	Soil	11/29/2022 10:27:00 AM	1	Rad 226, Phenols in Soil -03
4	2211E75-004B	Cell #4 VZ S-1	4OZGU	Soil	11/29/2022 10:52:00 AM	1	Rad 226, Phenols in Soil -04

Sample Receipt Checklist

COC Seal Present/Intact: ☒ Y ☐ N If Applicable

COC Signed/Accurate: ☒ Y ☐ N VOA Zero Headspace: ☐ Y ☐ N

Bottles arrive intact: ☒ Y ☐ N Pres. Correct/Check: ☐ Y ☐ N

Correct bottles used: ☒ Y ☐ N

Sufficient volume sent: ☒ Y ☐ N

RAD Screen <0.5 mR/hr: ☒ Y ☐ N

G.B.M. 3-3 to 3-3

SPECIAL INSTRUCTIONS / COMMENTS:

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you.

Relinquished By: <i>SA</i>	Date: 11/30/2022	Time: 10:34 AM	Received By: <i>Pat E</i>	Date: 12-1-22	Time: 09:06	REPORT TRANSMITTAL DESIRED:	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	FOR LAB USE ONLY	
TAT: Standard ☒ RUSH Next BD ☐ 2nd BD ☐ 3rd BD ☐						Temp of samples _____ °C Attempt to Cool? _____	
						Comments: _____	

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

WO#: 2211E75

24-Jan-23

Client: Animas Environmental Services**Project:** BMG Landfarm VZ Soil Samples

Sample ID: MB-71877	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 71877	RunNo: 93065								
Prep Date: 12/6/2022	Analysis Date: 12/6/2022	SeqNo: 3351719 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.30								
Chloride	ND	1.5								
Nitrogen, Nitrite (As N)	ND	0.30								
Nitrogen, Nitrate (As N)	ND	0.30								
Sulfate	3.3	1.5								

Sample ID: LCS-71877	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 71877	RunNo: 93065								
Prep Date: 12/6/2022	Analysis Date: 12/6/2022	SeqNo: 3351720 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	1.4	0.30	1.500	0	95.4	90	110			
Chloride	14	1.5	15.00	0	93.4	90	110			
Nitrogen, Nitrite (As N)	2.8	0.30	3.000	0	94.1	90	110			
Nitrogen, Nitrate (As N)	7.3	0.30	7.500	0	97.7	90	110			
Sulfate	28	1.5	30.00	0	94.1	90	110			B

Sample ID: 2211E75-001AMS	SampType: MS	TestCode: EPA Method 300.0: Anions								
Client ID: Cell #1 VZ S-1	Batch ID: 71877	RunNo: 93065								
Prep Date: 12/6/2022	Analysis Date: 12/6/2022	SeqNo: 3351731 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	7.0	1.5	7.500	0	93.2	71.4	124			

Sample ID: 2211E75-001AMSD	SampType: MSD	TestCode: EPA Method 300.0: Anions								
Client ID: Cell #1 VZ S-1	Batch ID: 71877	RunNo: 93065								
Prep Date: 12/6/2022	Analysis Date: 12/6/2022	SeqNo: 3351732 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	6.9	1.5	7.500	0	92.4	71.4	124	0.889	20	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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

WO#: 2211E75

24-Jan-23

Client: Animas Environmental Services**Project:** BMG Landfarm VZ Soil Samples

Sample ID: MB-71841	SampType: MBLK	TestCode: EPA Method 6020A: Total Metals								
Client ID: PBS	Batch ID: 71841	RunNo: 93097								
Prep Date: 12/5/2022	Analysis Date: 12/7/2022	SeqNo: 3353355	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Arsenic	ND	0.20								
Lead	ND	0.20								
Uranium	ND	0.20								

Sample ID: MSLCSLL-71841	SampType: LCSLL	TestCode: EPA Method 6020A: Total Metals								
Client ID: BatchQC	Batch ID: 71841	RunNo: 93097								
Prep Date: 12/5/2022	Analysis Date: 12/7/2022	SeqNo: 3353356	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Arsenic	ND	0.20	0.1000	0	99.6	70	130			
Lead	ND	0.20	0.1000	0	110	70	130			
Uranium	ND	0.20	0.1000	0	104	70	130			

Sample ID: MSLCS-71841	SampType: LCS	TestCode: EPA Method 6020A: Total Metals								
Client ID: LCSS	Batch ID: 71841	RunNo: 93097								
Prep Date: 12/5/2022	Analysis Date: 12/7/2022	SeqNo: 3353357	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Arsenic	4.5	0.20	5.000	0	90.1	80	120			
Lead	5.3	0.20	5.000	0	106	80	120			
Uranium	5.3	0.20	5.000	0	107	80	120			

Sample ID: 2211E75-003AMSLL	SampType: MS	TestCode: EPA Method 6020A: Total Metals								
Client ID: Cell #3 VZ S-4	Batch ID: 71841	RunNo: 93097								
Prep Date: 12/5/2022	Analysis Date: 12/7/2022	SeqNo: 3353395	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Arsenic	9.5	0.50	4.968	4.652	97.2	70	130			
Uranium	5.5	0.50	4.968	0.6666	97.1	70	130			

Sample ID: 2211E75-003AMSDL	SampType: MSD	TestCode: EPA Method 6020A: Total Metals								
Client ID: Cell #3 VZ S-4	Batch ID: 71841	RunNo: 93097								
Prep Date: 12/5/2022	Analysis Date: 12/7/2022	SeqNo: 3353396	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Arsenic	9.3	0.50	4.991	4.652	92.5	70	130	2.26	20	
Uranium	5.5	0.50	4.991	0.6666	96.0	70	130	0.577	20	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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

WO#: 2211E75

24-Jan-23

Client: Animas Environmental Services
Project: BMG Landfarm VZ Soil Samples

Sample ID: 2211E75-003AMSL	SampType: MS	TestCode: EPA Method 6020A: Total Metals								
Client ID: Cell #3 VZ S-4	Batch ID: 71841	RunNo: 93114								
Prep Date: 12/5/2022	Analysis Date: 12/8/2022	SeqNo: 3354111 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	15	0.50	4.968	8.608	123	70	130			

Sample ID: 2211E75-003AMSDL	SampType: MSD	TestCode: EPA Method 6020A: Total Metals								
Client ID: Cell #3 VZ S-4	Batch ID: 71841	RunNo: 93114								
Prep Date: 12/5/2022	Analysis Date: 12/8/2022	SeqNo: 3354112 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	14	0.50	4.991	8.608	113	70	130	3.24	20	

Sample ID: MB-72011	SampType: MBLK	TestCode: EPA Method 6020A: Total Metals								
Client ID: PBS	Batch ID: 72011	RunNo: 93334								
Prep Date: 12/12/2022	Analysis Date: 12/15/2022	SeqNo: 3364632 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	ND	0.20								

Sample ID: MSLCSLL-72011	SampType: LCSLL	TestCode: EPA Method 6020A: Total Metals								
Client ID: BatchQC	Batch ID: 72011	RunNo: 93334								
Prep Date: 12/12/2022	Analysis Date: 12/15/2022	SeqNo: 3364634 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	ND	0.20	0.1000	0	76.9	70	130			

Sample ID: MSLCS-72011	SampType: LCS	TestCode: EPA Method 6020A: Total Metals								
Client ID: LCSS	Batch ID: 72011	RunNo: 93334								
Prep Date: 12/12/2022	Analysis Date: 12/15/2022	SeqNo: 3364636 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	5.0	0.20	5.000	0	100	80	120			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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

WO#: 2211E75

24-Jan-23

Client: Animas Environmental Services**Project:** BMG Landfarm VZ Soil Samples

Sample ID: MB-71805	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 71805		RunNo: 92982							
Prep Date: 12/1/2022	Analysis Date: 12/2/2022		SeqNo: 3349686		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.0		10.00		90.0	21	129			

Sample ID: LCS-71805	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 71805		RunNo: 92982							
Prep Date: 12/1/2022	Analysis Date: 12/2/2022		SeqNo: 3349687		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	15	50.00	0	95.6	64.4	127			
Surr: DNOP	4.8		5.000		96.1	21	129			

Sample ID: MB-71809	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 71809		RunNo: 92982							
Prep Date: 12/1/2022	Analysis Date: 12/3/2022		SeqNo: 3349706		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		105	21	129			

Sample ID: LCS-71809	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 71809		RunNo: 92982							
Prep Date: 12/1/2022	Analysis Date: 12/3/2022		SeqNo: 3349707		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	15	50.00	0	95.5	64.4	127			
Surr: DNOP	5.0		5.000		99.1	21	129			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2211E75

24-Jan-23

Client: Animas Environmental Services**Project:** BMG Landfarm VZ Soil Samples

Sample ID: mb-71800	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 71800		RunNo: 92974							
Prep Date: 12/1/2022	Analysis Date: 12/2/2022		SeqNo: 3348400		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	890		1000		88.9	37.7	212			

Sample ID: lcs-71800	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 71800		RunNo: 92974							
Prep Date: 12/1/2022	Analysis Date: 12/2/2022		SeqNo: 3348401		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	85.2	72.3	137			
Surr: BFB	1800		1000		179	37.7	212			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 13 of 17

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

WO#: 2211E75

24-Jan-23

Client: Animas Environmental Services
Project: BMG Landfarm VZ Soil Samples

Sample ID: mb-71800	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 71800		RunNo: 92974							
Prep Date: 12/1/2022	Analysis Date: 12/2/2022		SeqNo: 3348471		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.92		1.000		92.0	70	130			

Sample ID: LCS-71800	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 71800		RunNo: 92974							
Prep Date: 12/1/2022	Analysis Date: 12/2/2022		SeqNo: 3348472		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.0	80	120			
Toluene	0.93	0.050	1.000	0	92.7	80	120			
Ethylbenzene	0.92	0.050	1.000	0	91.6	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.8	80	120			
Surr: 4-Bromofluorobenzene	0.94		1.000		94.0	70	130			

Qualifiers:

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

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

WO#: 2211E75

24-Jan-23

Client: Animas Environmental Services
Project: BMG Landfarm VZ Soil Samples

Sample ID: mb-71954	SampType: MBLK			TestCode: EPA Method 8270C: Semivolatiles						
Client ID: PBS	Batch ID: 71954			RunNo: 93218						
Prep Date: 12/8/2022	Analysis Date: 12/12/2022			SeqNo: 3361093	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Pentachlorophenol	ND	0.40								
Surr: 2-Fluorophenol	2.4		3.330		72.4	23.5	70.2			S
Surr: Phenol-d5	2.8		3.330		85.1	28.3	80			S
Surr: 2,4,6-Tribromophenol	2.5		3.330		74.4	33.8	106			
Surr: Nitrobenzene-d5	1.3		1.670		78.4	19.5	72.3			S
Surr: 2-Fluorobiphenyl	1.4		1.670		81.3	21.1	76.5			S
Surr: 4-Terphenyl-d14	1.7		1.670		104	70	109			

Sample ID: lcs-71954	SampType: LCS			TestCode: EPA Method 8270C: Semivolatiles						
Client ID: LCSS	Batch ID: 71954			RunNo: 93218						
Prep Date: 12/8/2022	Analysis Date: 12/12/2022			SeqNo: 3361094	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Pentachlorophenol	2.7	0.40	3.330	0	82.2	42.7	101			
Surr: 2-Fluorophenol	2.3		3.330		69.1	23.5	70.2			
Surr: Phenol-d5	2.6		3.330		77.9	28.3	80			
Surr: 2,4,6-Tribromophenol	2.6		3.330		79.1	33.8	106			
Surr: Nitrobenzene-d5	1.3		1.670		75.8	19.5	72.3			S
Surr: 2-Fluorobiphenyl	1.3		1.670		77.3	21.1	76.5			S
Surr: 4-Terphenyl-d14	1.6		1.670		95.7	70	109			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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

WO#: 2211E75

24-Jan-23

Client: Animas Environmental Services
Project: BMG Landfarm VZ Soil Samples

Sample ID: MB-72234	SampType: MBLK		TestCode: EPA Method 7471B: Mercury							
Client ID: PBS	Batch ID: 72234		RunNo: 93465							
Prep Date: 12/20/2022	Analysis Date: 12/21/2022		SeqNo: 3371032		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.033								

Sample ID: LCS-72234	SampType: LCS		TestCode: EPA Method 7471B: Mercury							
Client ID: LCSS	Batch ID: 72234		RunNo: 93465							
Prep Date: 12/20/2022	Analysis Date: 12/21/2022		SeqNo: 3371034		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.18	0.033	0.1667	0	108	80	120			

Sample ID: LCSLL-72234	SampType: LCSLL		TestCode: EPA Method 7471B: Mercury							
Client ID: BatchQC	Batch ID: 72234		RunNo: 93465							
Prep Date: 12/20/2022	Analysis Date: 12/22/2022		SeqNo: 3371491		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.033	0.006660	0	114	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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

WO#: 2211E75

24-Jan-23

Client: Animas Environmental Services**Project:** BMG Landfarm VZ Soil Samples

Sample ID: MB-71841	SampType: MBLK	TestCode: EPA Method 6010B: Soil Metals								
Client ID: PBS	Batch ID: 71841	RunNo: 93150								
Prep Date: 12/5/2022	Analysis Date: 12/9/2022	SeqNo: 3355922	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Barium	ND	0.10
Cadmium	ND	0.10
Chromium	ND	0.30

Sample ID: LCS-71841	SampType: LCS	TestCode: EPA Method 6010B: Soil Metals								
Client ID: LCSS	Batch ID: 71841	RunNo: 93150								
Prep Date: 12/5/2022	Analysis Date: 12/9/2022	SeqNo: 3355924	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Barium	24	0.10	25.00	0	94.1	80	120
Cadmium	24	0.10	25.00	0	95.2	80	120
Chromium	24	0.30	25.00	0	96.8	80	120

Sample ID: MB-72011	SampType: MBLK	TestCode: EPA Method 6010B: Soil Metals								
Client ID: PBS	Batch ID: 72011	RunNo: 93316								
Prep Date: 12/12/2022	Analysis Date: 12/14/2022	SeqNo: 3363702	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Barium	ND	0.10
Cadmium	0.10	0.10
Chromium	ND	0.30
Copper	ND	2.0
Iron	ND	10
Manganese	ND	0.20
Silver	ND	0.50
Zinc	ND	2.5

Sample ID: LCS-72011	SampType: LCS	TestCode: EPA Method 6010B: Soil Metals								
Client ID: LCSS	Batch ID: 72011	RunNo: 93316								
Prep Date: 12/12/2022	Analysis Date: 12/14/2022	SeqNo: 3363705	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Barium	24	0.10	25.00	0	95.5	80	120		
Cadmium	24	0.10	25.00	0	94.7	80	120		B
Chromium	24	0.30	25.00	0	95.7	80	120		
Copper	27	2.0	25.00	0	106	80	120		
Iron	26	10	25.00	0	104	80	120		
Manganese	24	0.20	25.00	0	95.2	80	120		
Silver	4.8	0.50	5.000	0	96.3	80	120		
Zinc	23	2.5	25.00	0	90.4	80	120		

Qualifiers:

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



Hall Environmental Analysis Laboratory
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: 2211E75

RcptNo: 1

Received By: **Sean Livingston** 11/30/2022 7:40:00 AM

Completed By: **Sean Livingston** 11/30/2022 10:04:59 AM

Reviewed By: **KRC 11-30-22**

Sn-Lygh
Sn-Lygh

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? Yes ☒ No ☐
(Note discrepancies on chain of custody)
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? Yes ☒ No ☐
(If no, notify customer for authorization.)

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: *JS 11-30-22*

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

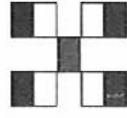
16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.9	Good				
2	0.4	Good				
3	1.8	Good				

Chain-of-Custody Record

Client:	Animas Environmental Services						☒ Standard ☐ Rush
Mailing Address:	P.O. Box 8 Farmington, NM 87499-0008						Project Name: BMG Landfarm - VZ soil samples
Phone #:	720-537-6650						Project #: AES 040605
email or Fax#:	aledgerwood@animasenvironmental.com						Project Manager: Angela Ledgerwood Elizabeth McNally
QA/QC Package:							Sampler: JB JE
☒ Standard	☐ Level 4 (Full Validation)						On Ice: ☒ Yes ☐ No
Accreditation:	☐ Az Compliance ☐ Other						# of Coolers: 3
☐ NELAC							Cooler Temp (including CF): See Remarks
☐ EDD (Type) _____							HEAL No. 2209G13 ZZ11E75
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	
11/29/22	9:15	Soil	Cell #1 VZ S-1	4x4-oz. glass jars	Cool	001	
	9:55	Soil	Cell #2 VZ S-2	4x4-oz. glass jars	Cool	002	
	10:27	Soil	Cell #3 VZ S-4	4x4-oz. glass jars	Cool	003	
	10:52	Soil	Cell #4 VZ S-1	4x4-oz. glass jars	Cool	004	
Date: 11-29-22	Time: 1800	Relinquished by: Green Dubic	Received by: [Signature]		Via:	Date 11/29/22	
Date: 11/29/22	Time: 1844	Relinquished by: [Signature]	Received by: [Signature]		Via:	Date 11/30/22	



HALL ENVIRONMENTAL ANALYSIS LABORATORY

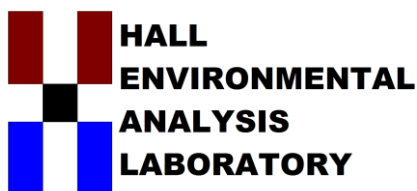
4901 Hawkins NE - Albuquerque, NM 87109

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

Analyses Request

[illegible]

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



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

November 07, 2022

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

RE: BMG Landfarm Sulfate in Groundwater

OrderNo.: 2211165

Dear Elizabeth McNally:

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

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2211165

Date Reported: 11/7/2022

CLIENT: Animas Environmental Services Client Sample ID: MW-2
Project: BMG Landfarm Sulfate in Groundwater Collection Date: 11/2/2022 8:46:00 AM
Lab ID: 2211165-001 Matrix: GROUNDWA Received Date: 11/3/2022 6:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: JMT
Sulfate	100	5.0		mg/L	10	11/3/2022 7:19:31 PM

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

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

Analytical Report

Lab Order 2211165

Date Reported: 11/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: MW-3

Project: BMG Landfarm Sulfate in Groundwater

Collection Date: 11/2/2022 9:15:00 AM

Lab ID: 2211165-002

Matrix: GROUNDWA

Received Date: 11/3/2022 6:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: JMT
Sulfate	140	5.0		mg/L	10	11/3/2022 7:45:14 PM

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

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

Page 2 of 3

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2211165
07-Nov-22

Client: Animas Environmental Services
Project: BMG Landfarm Sulfate in Groundwater

Sample ID: MB	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBW	Batch ID: R92324	RunNo: 92324								
Prep Date:	Analysis Date: 11/3/2022	SeqNo: 3317471 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: R92324	RunNo: 92324								
Prep Date:	Analysis Date: 11/3/2022	SeqNo: 3317479 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	9.7	0.50	10.00	0	97.2	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 Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 3 of 3



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: **2211165**

RcptNo: **1**

Received By: **Juan Rojas**

11/3/2022 6:25:00 AM

Juan Rojas

Completed By: **Tracy Casarrubias**

11/3/2022 9:04:28 AM

Reviewed By: **JR 11/3/22**

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: *KRG 11-3-22*

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

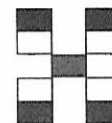
Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.2	Good	Yes			

Chain-of-Custody Record				Turn-Around Time:		
Client: Animas Environmental Services				☒ Standard ☐ Rush _____		
Mailing Address: P.O. Box 8				Project Name:		
Farmington, NM 87499-0008				BMG Landfarm - sulfate in groundwater		
Phone #: 720-537-6650				Project #:		
email or Fax#: aledgerwood@animasenvironmental.com				AES 040605		
QA/QC Package:				Project Manager:		
☒ Standard ☐ Level 4 (Full Validation)				Angela Ledgerwood		
Accreditation: ☐ Az Compliance				Elizabeth McNally		
☐ NELAC ☐ Other _____				Sampler:		
☐ EDD (Type) _____				On Ice: ☒ Yes ☐ No		
				# of Coolers: 1		
				Cooler Temp (including CF): 1.1 + 0.1 = 1.2		
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
11-2-22	8:46	GW	MW-2	1 x 125-mL plastic no preservative	Cold	001
11-2-22	9:15	GW	MW-3	1 x 125-mL plastic no preservative	Cold	002
		W	Trip Blank	(2) 40 mL glass	Cold	
Date:	Time:	Relinquished by:		Received by:	Via:	Date Time
11/2/22	1622	<i>[Signature]</i>		<i>[Signature]</i>	W	11/2/22 1622
Date:	Time:	Relinquished by:		Received by:	Via:	Date Time
11/2/22	1811	<i>[Signature]</i>		<i>[Signature]</i>	courier	11/3/22 6:28



www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

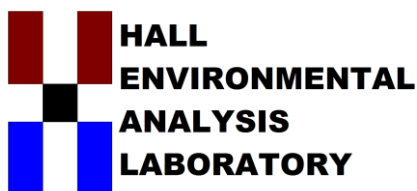
Analysis Request

[illegible]

Remarks:

Please direct-bill this project to BMG.

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



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

December 14, 2022

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

RE: BMG Landfarm MWs and Interstitial Well

OrderNo.: 2211E77

Dear Angela Ledgerwood:

Hall Environmental Analysis Laboratory received 5 sample(s) on 11/30/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2211E77

Date Reported: 12/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: MW-1

Project: BMG Landfarm MWs and Interstitial W

Collection Date: 11/29/2022 12:26:00 PM

Lab ID: 2211E77-001

Matrix: GROUNDWA

Received Date: 11/30/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: DGH
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/2/2022 2:17:41 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/2/2022 2:17:41 PM
Surr: DNOP	125	43.2-147		%Rec	1	12/2/2022 2:17:41 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	12/2/2022 4:54:00 PM
Surr: BFB	92.8	70-130		%Rec	1	12/2/2022 4:54:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	12/2/2022 4:54:00 PM
Toluene	ND	1.0		µg/L	1	12/2/2022 4:54:00 PM
Ethylbenzene	ND	1.0		µg/L	1	12/2/2022 4:54:00 PM
Xylenes, Total	ND	2.0		µg/L	1	12/2/2022 4:54:00 PM
Surr: 4-Bromofluorobenzene	93.0	70-130		%Rec	1	12/2/2022 4:54:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Fluoride	ND	0.50		mg/L	5	11/30/2022 8:30:27 PM
Chloride	50	2.5		mg/L	5	11/30/2022 8:30:27 PM
Nitrogen, Nitrite (As N)	ND	0.50		mg/L	5	11/30/2022 8:30:27 PM
Nitrogen, Nitrate (As N)	6.5	0.50		mg/L	5	11/30/2022 8:30:27 PM
Sulfate	130	2.5		mg/L	5	11/30/2022 8:30:27 PM
TOTAL PHENOLICS BY SW-846 9067						Analyst: JPM
Phenolics	ND	2.5		µg/L	1	12/7/2022 2:13:00 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: SNS
Total Dissolved Solids	715	100	*D	mg/L	1	12/5/2022 3:43:00 PM

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

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

Analytical Report

Lab Order 2211E77

Date Reported: 12/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: MW-2

Project: BMG Landfarm MWs and Interstitial W

Collection Date: 11/29/2022 2:50:00 PM

Lab ID: 2211E77-002

Matrix: GROUNDWA

Received Date: 11/30/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: DGH
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/2/2022 2:59:36 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/2/2022 2:59:36 PM
Surr: DNOP	128	43.2-147		%Rec	1	12/2/2022 2:59:36 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	12/2/2022 6:04:12 PM
Surr: BFB	89.4	70-130		%Rec	1	12/2/2022 6:04:12 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	12/2/2022 6:04:12 PM
Toluene	ND	1.0		µg/L	1	12/2/2022 6:04:12 PM
Ethylbenzene	ND	1.0		µg/L	1	12/2/2022 6:04:12 PM
Xylenes, Total	ND	2.0		µg/L	1	12/2/2022 6:04:12 PM
Surr: 4-Bromofluorobenzene	91.6	70-130		%Rec	1	12/2/2022 6:04:12 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Fluoride	ND	0.50		mg/L	5	11/30/2022 8:55:08 PM
Chloride	120	10		mg/L	20	11/30/2022 9:07:29 PM
Nitrogen, Nitrite (As N)	ND	0.50		mg/L	5	11/30/2022 8:55:08 PM
Nitrogen, Nitrate (As N)	2.5	0.50		mg/L	5	11/30/2022 8:55:08 PM
Sulfate	110	2.5		mg/L	5	11/30/2022 8:55:08 PM
TOTAL PHENOLICS BY SW-846 9067						Analyst: JPM
Phenolics	ND	2.5		µg/L	1	12/7/2022 2:13:00 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: SNS
Total Dissolved Solids	765	100	*D	mg/L	1	12/5/2022 3:43:00 PM

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

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

Analytical Report

Lab Order 2211E77

Date Reported: 12/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: MW-3

Project: BMG Landfarm MWs and Interstitial W

Collection Date: 11/29/2022 1:58:00 PM

Lab ID: 2211E77-003

Matrix: GROUNDWA

Received Date: 11/30/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: DGH
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/2/2022 3:13:30 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/2/2022 3:13:30 PM
Surr: DNOP	126	43.2-147		%Rec	1	12/2/2022 3:13:30 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	12/2/2022 6:27:40 PM
Surr: BFB	90.8	70-130		%Rec	1	12/2/2022 6:27:40 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	12/2/2022 6:27:40 PM
Toluene	ND	1.0		µg/L	1	12/2/2022 6:27:40 PM
Ethylbenzene	ND	1.0		µg/L	1	12/2/2022 6:27:40 PM
Xylenes, Total	ND	2.0		µg/L	1	12/2/2022 6:27:40 PM
Surr: 4-Bromofluorobenzene	91.5	70-130		%Rec	1	12/2/2022 6:27:40 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Fluoride	ND	0.50		mg/L	5	11/30/2022 9:19:50 PM
Chloride	280	10	*	mg/L	20	11/30/2022 9:32:11 PM
Nitrogen, Nitrite (As N)	ND	0.50		mg/L	5	11/30/2022 9:19:50 PM
Nitrogen, Nitrate (As N)	2.2	0.50		mg/L	5	11/30/2022 9:19:50 PM
Sulfate	150	2.5		mg/L	5	11/30/2022 9:19:50 PM
TOTAL PHENOLICS BY SW-846 9067						Analyst: JPM
Phenolics	ND	2.5		µg/L	1	12/7/2022 2:13:00 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: SNS
Total Dissolved Solids	1020	40.0	*D	mg/L	1	12/5/2022 3:43:00 PM

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

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

Analytical Report

Lab Order 2211E77

Date Reported: 12/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: MW-4

Project: BMG Landfarm MWs and Interstitial W

Collection Date: 11/29/2022 1:12:00 PM

Lab ID: 2211E77-004

Matrix: GROUNDWA

Received Date: 11/30/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: DGH
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/2/2022 3:27:29 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/2/2022 3:27:29 PM
Surr: DNOP	132	43.2-147		%Rec	1	12/2/2022 3:27:29 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	12/2/2022 6:51:12 PM
Surr: BFB	86.9	70-130		%Rec	1	12/2/2022 6:51:12 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	12/2/2022 6:51:12 PM
Toluene	ND	1.0		µg/L	1	12/2/2022 6:51:12 PM
Ethylbenzene	ND	1.0		µg/L	1	12/2/2022 6:51:12 PM
Xylenes, Total	ND	2.0		µg/L	1	12/2/2022 6:51:12 PM
Surr: 4-Bromofluorobenzene	88.5	70-130		%Rec	1	12/2/2022 6:51:12 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Fluoride	ND	0.50		mg/L	5	11/30/2022 9:44:32 PM
Chloride	85	2.5		mg/L	5	11/30/2022 9:44:32 PM
Nitrogen, Nitrite (As N)	ND	0.50		mg/L	5	11/30/2022 9:44:32 PM
Nitrogen, Nitrate (As N)	4.7	0.50		mg/L	5	11/30/2022 9:44:32 PM
Sulfate	120	2.5		mg/L	5	11/30/2022 9:44:32 PM
TOTAL PHENOLICS BY SW-846 9067						Analyst: JPM
Phenolics	ND	2.5		µg/L	1	12/7/2022 2:13:00 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: SNS
Total Dissolved Solids	686	40.0	*D	mg/L	1	12/5/2022 3:43:00 PM

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

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

Analytical Report

Lab Order 2211E77

Date Reported: 12/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Trip Blank

Project: BMG Landfarm MWs and Interstitial W

Collection Date:

Lab ID: 2211E77-005

Matrix: TRIP BLANK

Received Date: 11/30/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	12/2/2022 7:14:42 PM
Toluene	ND	1.0		µg/L	1	12/2/2022 7:14:42 PM
Ethylbenzene	ND	1.0		µg/L	1	12/2/2022 7:14:42 PM
Xylenes, Total	ND	2.0		µg/L	1	12/2/2022 7:14:42 PM
Surr: 4-Bromofluorobenzene	91.8	70-130		%Rec	1	12/2/2022 7:14:42 PM

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

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

Page 5 of 11

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

WO#: 2211E77

14-Dec-22

Client: Animas Environmental Services
Project: BMG Landfarm MWs and Interstitial Well

Sample ID: MB	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBW	Batch ID: A92938	RunNo: 92938								
Prep Date:	Analysis Date: 11/30/2022	SeqNo: 3346539 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Sulfate	ND	0.50								

Sample ID: LCS	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSW	Batch ID: A92938	RunNo: 92938								
Prep Date:	Analysis Date: 11/30/2022	SeqNo: 3346540 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.51	0.10	0.5000	0	102	90	110			
Chloride	4.8	0.50	5.000	0	95.5	90	110			
Nitrogen, Nitrite (As N)	0.99	0.10	1.000	0	98.5	90	110			
Nitrogen, Nitrate (As N)	2.6	0.10	2.500	0	102	90	110			
Sulfate	9.8	0.50	10.00	0	97.6	90	110			

Qualifiers:

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

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

WO#: 2211E77

14-Dec-22

Client: Animas Environmental Services
Project: BMG Landfarm MWs and Interstitial Well

Sample ID: MB-71807	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range								
Client ID: PBW	Batch ID: 71807	RunNo: 92982								
Prep Date: 12/2/2022	Analysis Date: 12/2/2022	SeqNo: 3348105 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	0.64		0.5000		129	43.2	147			

Sample ID: LCS-71807	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range								
Client ID: LCSW	Batch ID: 71807	RunNo: 92982								
Prep Date: 12/2/2022	Analysis Date: 12/2/2022	SeqNo: 3348106 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	3.1	1.0	2.500	0	123	68.4	146			
Surr: DNOP	0.32		0.2500		128	43.2	147			

Sample ID: 2211E77-001BMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range								
Client ID: MW-1	Batch ID: 71807	RunNo: 92982								
Prep Date: 12/2/2022	Analysis Date: 12/2/2022	SeqNo: 3349654 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	3.2	1.0	2.500	0	126	39.1	140			
Surr: DNOP	0.32		0.2500		128	43.2	147			

Sample ID: 2211E77-001BMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range								
Client ID: MW-1	Batch ID: 71807	RunNo: 92982								
Prep Date: 12/2/2022	Analysis Date: 12/2/2022	SeqNo: 3349655 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	3.0	1.0	2.500	0	119	39.1	140	5.67	26.4	
Surr: DNOP	0.31		0.2500		123	43.2	147	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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

WO#: 2211E77

14-Dec-22

Client: Animas Environmental Services
Project: BMG Landfarm MWs and Interstitial Well

Sample ID: mb	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBW	Batch ID: A92974			RunNo: 92974						
Prep Date:	Analysis Date: 12/2/2022			SeqNo: 3348381			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	18		20.00		89.8	70	130			

Sample ID: 2.5ug gro lcs	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSW	Batch ID: A92974			RunNo: 92974						
Prep Date:	Analysis Date: 12/2/2022			SeqNo: 3348382			Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.48	0.050	0.5000	0	95.9	80	120			
Surr: BFB	37		20.00		184	70	130			S

Sample ID: 2211e77-001ams	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: MW-1	Batch ID: A92974			RunNo: 92974						
Prep Date:	Analysis Date: 12/2/2022			SeqNo: 3348388			Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.48	0.050	0.5000	0	96.1	70	130			
Surr: BFB	38		20.00		190	70	130			S

Sample ID: 2211e77-001amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: MW-1	Batch ID: A92974			RunNo: 92974						
Prep Date:	Analysis Date: 12/2/2022			SeqNo: 3348389			Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.48	0.050	0.5000	0	95.2	70	130	0.920	20	
Surr: BFB	38		20.00		190	70	130	0	0	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 Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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

WO#: 2211E77

14-Dec-22

Client: Animas Environmental Services
Project: BMG Landfarm MWs and Interstitial Well

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBW	Batch ID: C92974		RunNo: 92974							
Prep Date:	Analysis Date: 12/2/2022		SeqNo: 3348449		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	18		20.00		91.6	70	130			

Sample ID: 100ng btex lcs	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSW	Batch ID: C92974		RunNo: 92974							
Prep Date:	Analysis Date: 12/2/2022		SeqNo: 3348450		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	18	1.0	20.00	0	91.3	70	130			
Ethylbenzene	18	1.0	20.00	0	91.2	70	130			
Xylenes, Total	55	2.0	60.00	0	91.7	70	130			
Surr: 4-Bromofluorobenzene	19		20.00		95.4	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2211E77
14-Dec-22

Client: Animas Environmental Services

Project: BMG Landfarm MWs and Interstitial Well

Sample ID: MB-71914	SampType: MBLK	TestCode: Total Phenolics by SW-846 9067								
Client ID: PBW	Batch ID: 71914	RunNo: 93162								
Prep Date: 12/7/2022	Analysis Date: 12/7/2022	SeqNo: 3356464	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Phenolics	ND	2.5								

Sample ID: LCS-71914	SampType: LCS	TestCode: Total Phenolics by SW-846 9067								
Client ID: LCSW	Batch ID: 71914	RunNo: 93162								
Prep Date: 12/7/2022	Analysis Date: 12/7/2022	SeqNo: 3356465	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Phenolics	15	2.5	20.00	0	72.7	38.6	115			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 10 of 11

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2211E77

14-Dec-22

Client: Animas Environmental Services
Project: BMG Landfarm MWs and Interstitial Well

Sample ID: MB-71795	SampType: MBLK		TestCode: SM2540C MOD: Total Dissolved Solids							
Client ID: PBW	Batch ID: 71795		RunNo: 93020							
Prep Date: 12/1/2022	Analysis Date: 12/5/2022		SeqNo: 3350000		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-71795	SampType: LCS		TestCode: SM2540C MOD: Total Dissolved Solids							
Client ID: LCSW	Batch ID: 71795		RunNo: 93020							
Prep Date: 12/1/2022	Analysis Date: 12/5/2022		SeqNo: 3350001		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1040	20.0	1000	0	104	80	120			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit



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: **2211E77**

RcptNo: **1**

Received By: **Sean Livingston** 11/30/2022 7:40:00 AM

Completed By: **Sean Livingston** 11/30/2022 10:45:49 AM

Reviewed By: **KPA 11-30-22**

Sean Livingston
Sean Livingston

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH: 8

(2 or >12 unless noted)

Adjusted? NO

Checked by: [Signature] 11-30-22

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.9	Good				
2	1.8	Good				
3	0.4	Good				



HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com

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

Turn-Around Time: ☒ Standard ☐ Rush _____

Project Name: _____

BMG Landfarm - MWs & interstitial well

Project #: AES 040605

Project Manager: Angela Ledgerwood
Elizabeth McNally

Sampler: 50/50

On Ice: ☒ Yes ☐ No

of Coolers: 3

Cooler Temp (including CP): See remarks

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
11/29/22	1224	GW	MW-1	5x40-mL VOAs 1x250-mL amber glass 1x500-mL plastic 1x125-mL plastic 1x1-L amber glass	5 VOAs-HCl 1x125-mL H2SO4 1x1-L H2SO4 Cold	2211577
11/29/22	1456	GW	MW-2	5x40-mL VOAs 1x250-mL amber glass 1x500-mL plastic 1x125-mL plastic 1x1-L amber glass	5 VOAs-HCl 1x125-mL H2SO4 1x1-L H2SO4 Cold	002
11/29/22	1358	GW	MW-3	5x40-mL VOAs 1x250-mL amber glass 1x500-mL plastic 1x125-mL plastic 1x1-L amber glass	5 VOAs-HCl 1x125-mL H2SO4 1x1-L H2SO4 Cold	003
11/29/22	1312	GW	MW-4	5x40-mL VOAs 1x250-mL amber glass 1x500-mL plastic 1x125-mL plastic 1x1-L amber glass	5 VOAs-HCl 1x125-mL H2SO4 1x1-L H2SO4 Cold	004
		W	Trip Blank	2x40-mL VOAs	HCl Cold	005

Date: 11/29/22 Time: 1800 Relinquished by: [Signature]

Date: 11/29/22 Time: 1844 Relinquished by: [Signature]

Analysis Request									
BTEX via Method 8021	TPH GRO/DRO/MRO via EPA8015M/D	Chloride, fluoride, nitrate, nitrite, & sulfate via EPA300.0	Total Dissolved Solids via SM2540C	Total phenols by Method 9067					
x	x	x	x	x					
x	x	x	x	x					
x	x	x	x	x					
x	x	x	x	x					
x									

Remarks: $1.9 \pm 0.0 = 1.9 \pm 0.0$
 $0.4 \pm 0.0 = 0.4 \pm 0.0$
 $1.8 \pm 0.1 = 1.8 \pm 0.1$

Please direct-bill this project to BMG.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oed/contact-us>

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

CONDITIONS

Action 272363

CONDITIONS

Operator: BENSON-MONTIN-GREER DRILLING CORP 4900 College Blvd. Farmington, NM 87402	OGRID: 2096
	Action Number: 272363
	Action Type: [C-137] Non-Fee SWMF Submittal (SWMF NON-FEE SUBMITTAL)

CONDITIONS

Created By	Condition	Condition Date
jeffrey.harrison	The Oil Conservation Division (OCD) has completed its review of Benson-Montin-Greer Drilling Corp's (BMG) 2022 Landfarm Annual Monitoring and Sampling Report dated September 25th, 2023, for the facility covered under permit # NM-02-0004. The document has been accepted and retained for records retention purposes only and may contain statements and conclusions which the division does not support or endorse.	4/8/2025