

November 14, 2022

Leigh Barr Jim Griswold New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

RE: Proposed Alternative Closure Standards for Treatment Zone Closure for Cells 2 and 3 Permit # NM-02-0004 BMG's Centralized Surface Waste Management Facility Rio Arriba County, New Mexico

Dear Ms. Barr and Mr. Griswold:

Animas Environmental Services, LLC (AES) has completed additional sampling of the Treatment Zone at Cells 2 and 3 of Benson-Montin-Greer Drilling Corporation (BMG) Centralized Surface Waste Management Facility (Landfarm), located in the NW¼ NW¼ Section 20, T25N, R1E, Rio Arriba County, New Mexico. AES conducted the following tasks:

- Semi-annual monitoring sampling of the treatment zone in Cells 2 and 3 (March and June 2022) per NMAC 19.15.36.15.D and
- Closure sampling of the treatment zone in Cells 2 and 3 (June 2022) per NMAC 19.15.36.15.F.

All routine sampling was conducted in accordance with NMAC 19.15.36.15.D for the treatment zone. Treatment zones in Cells 2 and 3 meet closure criteria specified in NMAC 19.15.36.15.F, with the exception of 13 non-petroleum hydrocarbon parameters. For these parameters and in accordance with NMAC 19.15.36.19.A, BMG proposes alternative closure cleanup standards, which will be protective of human health and the environment.

1.0 Landfarm Treatment Zone Sampling, Q1 and Q2 2022

Treatment zones in Cells 1 and 4 previously met closure criteria specified in NMAC 19.15.36.15.F, and final treatment zone sampling and evaluation of results for Cells 1 and 4 were discussed in the 2020 and 2021 Landfarm Reports. BMG has continued to

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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 16 years.

1.1 Semi-Annual Treatment Zone Sampling, March and June 2022

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, 2022. These samples are the second semi-annual sampling round from 2021, the collection of which was delayed due to extended inclement weather. The first semi-annual samples for 2022 were collected on June 15, 2022, following the same compositing methodology. All samples were collected from approximately 0.25 feet (ft) below the treatment zone (TZ) surface. Sampling dates, periods, sample IDs, and analysis parameters are included as follows:

Cells Sampled	Sampling Date	Sampling Period	Sample ID	Parameter(s) and USEPA Method(s)
2-3	March 9, 2022	SA2 2021	Cell #2 TZ CS-1 Cell #3 TZ CS-1	TPH - GRO/DRO/MRO (8015M/D) Chloride (300.0)
2-3	June 15, 2022	SA1 2022	Cell #2 TZ CS-1 Cell #3 TZ CS-1	TPH - GRO/DRO/MRO (8015) Chloride (300.0)

Treatment Zone Semi-Annual Soil Sampling

1.2 Treatment Zone Analytical Results – Semi-Annual Sampling

For both sampling events, TPH and chloride laboratory analytical results were below NMOCD Closure Action Levels in Cells 2 and 3. Results are tabulated in Table 1, sample locations are presented on Figure 1, and laboratory analytical reports are attached.

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1.3 Treatment Zone Closure Request Sampling Cells 2 and 3, June 2022

In accordance with NMAC 19.15.36.15.F, AES personnel collected composite soil samples created from four randomly selected discrete samples from Cells 2 and 3 on June 15, 2022. All samples were collected from approximately 0.25 feet (ft) below the treatment zone (TZ) surface. Sampling dates, periods, sample IDs, and analysis parameters are included as follows:

Cells	Sampling	Sampla ID	Parameter(s) and		
Sampled	Date	Sample ID	USEPA Method(s)		
2 & 3	June 15, 2022	Cell #2 TZ CS-1 Cell #3 TZ CS-1	Ethylene dibromide (EDB) 8011/504.1; PCBs 8082A; GRO/DRO/MRO 8015; PAHs 8310; Anions 300.0; Mercury 7471; Soil Metals 6010B; VOCs 8260B (including BTEX); pH 9040C Phenols (9066) Radioactivity – Ra226 and Ra228 (901.1)		

Treatment Zone Closure Request Soil Sampling – Cells 2 and 3

Treatment Zone Closure Action Levels are as follows:

- Benzene 0.2 milligrams per kilogram (mg/kg)
- Total BTEX 50 mg/kg
- Chloride 500 mg/kg
- TPH (GRO, DRO, MRO) 2,500 mg/kg
- TPH (GRO and DRO) 500 mg/kg
- NMAC 20.6.2.3103 Lists A and B parameters not to exceed the practical quantitation limit (PQL) or approved background concentrations.

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1.4 Treatment Zone Analytical Results – Closure Request Sampling

VOCs, PAHs, and TPH (GRO/DRO/MRO) were not detected in soil samples collected from Cell 2 and 3 treatment zones. However, the following **13** parameters were detected *above* their respective laboratory practical quantitation limits (PQLs) with the following concentrations:

Arsenic: 4.0 mg/kg Cell 2 and 4.3 mg/kg Cell 3 Barium: 680 mg/kg Cell 2 and 97 mg/kg Cell 3 Chloride: 33 mg/kg Cell 2 and 24 mg/kg Cell 3 Chromium: 11 mg/kg Cell 2 and 9.3 mg/kg Cell 3 Copper: 15 mg/kg Cell 2 and 12 mg/kg Cell 3 Fluoride: 2.8 mg/kg in both Cell 2 and 3 Iron: 16,000 mg/kg in both Cell 2 and 3 Lead: 15 mg/kg in Cell 2 and 12 mg/kg in Cell 3 Manganese: 220 mg/kg in Cell 2 and 200 mg/kg in Cell 3 Nitrate: 7.2 mg/kg in Cell 3 Radioactivity: 2.168±0.762 pCi/g in Cell 2 and 2.360±0.616 pCi/g Cell 3 Sulfate: 240 mg/kg Cell 2 and 90 mg/kg Cell 3 Zinc: 41 mg/kg in both Cell 2 and 3

Results are tabulated in Table 2, sample locations are presented on Figure 1, and laboratory analytical reports are attached.

2.0 Risk Assessment Discussion, Treatment Zone Cells 2 and 3

According to NMAC 19.15.36.15.F(5) and also NMAC 20.6.2.3103, if concentrations exceed the PQL or approved background concentrations, then a risk assessment will be conducted to ensure that there are no impacts to fresh water, public health, or the environment.

2.1 Comparison to Treatment Zone Closure Action Levels

Chloride concentrations were reported at 33 mg/kg and 24 mg/kg, respectively, in Cell 2 and 3. These concentrations are **below** treatment zone closure action level of 500 mg/kg.

2.2 Comparison to NMOCD Approved Background Soil Concentrations

The analytical results for 12 parameters (fluoride, nitrate, sulfate, radioactivity, arsenic, barium, chromium, copper, iron, lead, manganese, and zinc) exceeded the NMOCD approved background levels approved in 2016. Note than when reviewing the range of

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background sample concentrations collected in 2014, many of the treatment zone concentrations fell *within* the range observed in background sample concentrations.

- In the sample from Treatment Zone Cell 2, nitrate, radioactivity, arsenic, chromium, iron, manganese, and zinc concentrations were within the respective ranges of concentrations from background samples.
- For the sample from Treatment Zone Cell 3, fluoride, radioactivity, arsenic, barium, chromium, copper, iron, manganese, and zinc concentrations fell within the concentration ranges observed in background samples.
- Three parameters (nitrate, barium, and lead) were above both the approved vadose zone background values and also outside the range of observed background concentrations from 2014.

Treatment zone concentrations, the range of 2014 background vadose zone concentrations, and NMOCD approved background values are included in Table 2. Laboratory analytical reports are included in the Appendix.

2.3 Risk Assessment and Comparison to New Mexico Environment Department (NMED) Soil Screening Levels (SSLs)

2.3.1 Sensitive Receptors

The landfarm facility is located on private property in a remote area, adjacent to the Santa Fe National Forest.

- 1. There are no private residences located on the property or on adjacent properties.
- 2. There are no schools, day care facilities or nursing homes, which typically have sensitive populations, located within several miles.
- 3. There are no surface water bodies located on or within close proximity to the landfarm, and groundwater is estimated to be at about 40 feet bgs.
- 4. According to New Mexico Office of State Engineer (NMOSE), there are five completed and registered water wells within an approximate one-mile radius of the facility. The well located on the BMG property (RG 91699) was installed in 2009, is screened from 34 to 54 feet bgs, and is classified as sanitary in conjunction with commercial use. One other well is located approximately 3,600 ft up and cross-gradient (RG 94854); two other wells are located approximately 1 mile away and are down and cross-gradient (RG 57531 and RG 80553); and the fourth well is 4,900 ft cross gradient (RG 92027).
- 5. Construction and industrial workers at the site conduct tilling of the soil using heavy equipment with enclosed cabs and wear protective gloves; however, worker time on site is a few hours per week and does not meet the work hours

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of 8 hours per day for 250 days per year assumed for a construction or industrial worker. Therefore, the pathways for inhalation, dermal contact and ingestion for construction and industrial workers are not considered to be complete.

6. Current and future uses of the property are industrial, according to BMG.

Since leaching to groundwater represents the primary potentially completed exposure pathway, it is proposed that New Mexico Environment Department (NMED) Soil Screening Levels (SSLs) Soil Leaching (SL) to Groundwater be utilized as alternative closure standards for the 12 parameters which had treatment zone concentrations above background levels, in accordance with NMAC 19.15.36.15.F and NMAC 19.15.36.19.A.

2.3.2 Proposed Alternative Treatment Zone Closure Standards - NMED Soil Screening Levels

Treatment zone soil analytical results from Cells 2 and 3 above the approved background levels have been compared with New Mexico Environment Department (NMED) Soil Screening Levels (SSLs) for Soil Leaching (SL) to Groundwater with a dilution attenuation factor (DAF) of 20 (*NMED SSG Summary Table A-1, June 2022*). These values were calculated by NMED using extensive risk modeling and have been determined to be protective of human health and the environment. A DAF of 20 is concluded to be reasonable given that the source is not infinite, and constant concentrations are not uniformly present from the ground surface to the top of groundwater.

For the 12 parameters with concentrations that exceeded NMOCD approved background concentrations, 9 parameters had concentrations that were *below* their respective NMED SSLs for leaching to groundwater.

Parameter	USEPA Method	TZ Cell #2 (mg/kg)	TZ Cell #3 (mg/kg)	NMOCD Approved Vadose Zone Background Value (mg/kg)	NMED SSL Leaching to GW DAF 20 (mg/kg)
	Date Sampled	6/15/2022	6/15/2022	2016	2019
NMAC 20.6.2.	3103 (A and B)				
Arsenic	6010B or 6020A	4.0	4.3	2.5	5.8
Barium	6010B	680	97	42	2,699
Chromium	6010B	11	9.3	4.4	205,256
Copper	6010B	15	12	3.4	915
Fluoride	300.0	2.8	2.8	0.6	12,014
Iron	6010B	16,000	16,000	6,500	6,960

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Parameter	USEPA Method	TZ Cell #2 (mg/kg)	TZ Cell #3 (mg/kg) NMOCD Approved Vadose Zone Background Value (mg/kg)		NMED SSL Leaching to GW DAF 20 (mg/kg)
	Date Sampled	6/15/2022	6/15/2022	2016	2019
Lead	6010B/6020A	15	12	2.1	270
Manganese	6010B	220	200	140	2,630
Nitrate (NO₃ as N)	300.0	<1.5	7.2	0.3	425
Radioactivity (Combined Ra 226 & 228)	901.1 Gamma Spec	2.168 ± 0.762	2.360 ± 0.616	1.3	
Sulfate	300.0	240	90	1.5	
Zinc	6010B	41	41	13	7,412

Note that two parameters, radioactivity and sulfate, have no established NMED SSL for protection of groundwater. Iron concentrations in both Cells 2 and 3 were *above* the NMED SSL for protection of groundwater (6,960 mg/kg iron). The applicable NMED SSLs for protection of groundwater (DAF 20) are also presented in Table 2.

2.4 Iron, Radioactivity, and Sulfate

As previously discussed with NMOCD during completion of the initial vadose zone background sampling in 2014, the wide variability of background concentrations, including iron and radioactivity, were believed to be a function of hillslope position exerting control over mineralogical and sedimentological composition of the soil in the landfarm area.

There are two primary lithologies present within the watershed: terrigenous sandstones and shales. Baltz (1967) also noted that the sediment found within the Llaves Formation was immature and likely sourced from Precambrian granites and metamorphic rocks. Baltz (1967) suggests that the increase in thickness and prevalence northward of the Nacimiento Formation suggest erosion of the Precambrian rock north and northeast of the basin. The larger grain size fraction (pebbles and cobbles) in the Llaves Formation resembles bluish gray metaquartzites of the Brazos uplift associated with the Sangre de Cristo uplift farther to the east (Just, 1937). With regard to elevated iron concentrations in soil, the red sandstone and shale of the Llaves are likely recycled sediment from Permian Cutler Formation (Baltz, 1967). The distinct red color of these deposits is directly correlated with the presence of hematite (Fe₂O₃) and the weathering of other iron-bearing minerals (Werner, 1974). Leigh Barr, Jim Griswold Proposed Alternative Standards for Cells 2 and 3 Treatment Zones November 14, 2022; Page 8 of 11

2.4.1 Iron

While iron concentrations exceed the NMED SSL, AES maintains that elevated iron concentrations throughout the vicinity are associated with the geology of the area and not with industrial use of the landfarm. Vadose zone background samples collected in 2014 showed iron concentrations ranging from 6,500 mg/kg up to 25,000 mg/kg. Under NMAC 19.15.36.15.F and NMAC 19.15.36.19.A, it is proposed that an alternative treatment zone closure standard for iron be set at the current treatment zone concentrations of 16,000 mg/kg, which are below the highest vadose zone background sample concentrations of 25,000 mg/kg.

2.4.2 Radioactivity

While radium concentrations exceed the approved vadose zone background which was set at the lowest of background concentrations, AES also maintains that elevated radioactive concentrations in the treatment zone associated with the geology of the area and not with industrial use of the landfarm. Vadose zone background samples collected in 2014 showed radium concentrations (combined radium 226 and 228) ranging from 1.3 to 3.5. Under NMAC 19.15.36.15.F and NMAC 19.15.36.19.A, it is proposed that an alternative treatment zone closure standard for radioactivity be set at 2.98, which is the higher current treatment zone concentration from Cells 2 and 3.

2.4.3 Sulfate

Sulfate concentrations in treatment zones of Cell 2 and Cell 3 exceeded approved vadose zone background concentrations; however, there is no established NMED SSL for leaching to groundwater. The New Mexico Water Quality Control Commission (WQCC) standard for sulfate is 600 milligrams per liter (mg/L).

Sulfate, a soluble, divalent anion (SO_4^{2-}) with a molecular weight of 96.06 grams per mol (g/mol), results from the oxidation of either elemental sulfur, sulfide minerals, or organic sulfur (Alley, 1993; Field, 1972; Wetzel, 1983). The anion is often connected, through ionic bonds, to alkali, alkaline earth, or transition metals (Field, 1972). Soil pH can affect sulfate concentrations in soils, and because physical and chemical characteristics of sulfate are dependent on pH and other factors, it is not feasible to make a reliable calculation of an SSL using Equations 55 and 56 of *NMED Risk Assessment Guidance for Investigations and Remediation, Volume 1* (NMED, 2021).

To demonstrate that current sulfate concentrations in the treatment zone are protective of human health and the environment, groundwater samples from MW-2 and MW-3 were collected and analyzed for sulfate. 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. All data was recorded on Water Sample Collection Forms. The two groundwater samples were submitted for laboratory analysis at Hall Environmental Leigh Barr, Jim Griswold Proposed Alternative Standards for Cells 2 and 3 Treatment Zones November 14, 2022; Page 9 of 11

Analysis Laboratory (Hall) in Albuquerque, New Mexico, for sulfate per USEPA Method 300.0.

Analytical results showed that groundwater sulfate concentrations were 100 mg/L at MW-2 and 140 mg/L at MW-3. These concentrations are less than half the WQCC standard. These results demonstrate that, given the soil conditions that exist between the treatment zone and the groundwater table, the current concentrations of sulfate in the treatment zone have not caused sulfate in groundwater to exceed the New Mexico WQCC standard of 600 mg/L. The laboratory analytical report is attached.

3.0 Conclusions

AES personnel collected samples from the treatment zone of Cells 2 and 3 at the BMG Surface Waste Management Facility in March and June 2022. The samples collected in March are functioning as the second semi-annual sampling round from 2021, the collection of which was delayed due to extended inclement weather. The first semiannual samples for 2022 were collected on June 15, 2022. Both rounds of sampling and analysis indicate that treatment zone samples from Cells 2 and 3 had TPH and chloride concentrations below NMOCD Closure Action Levels.

AES personnel also collected closure samples from the treatment zone of Cells 2 and 3 in June 2022 in accordance with NMAC 19.15.36.15.F.

- The analytical results for petroleum hydrocarbon parameters (benzene, total BTEX, TPH) all fell below laboratory PQLs and meet treatment zone closure requirements in NMAC 19.15.36.15.F(1-3).
- Chloride concentrations were below 500 mg/kg per NMAC 19.15.36.15.F4.
- 12 parameters were above approved vadose zone background concentrations, and BMG proposes alternative treatment zone closure standards, which were developed by NMED and are protective of human health and the environment, as allowed under NMAC 19.15.36.19A.

	Proposed Alternative TZ	
Parameter	Closure Standard (mg/kg)	Rationale
Arsenic	5.8	NMED SSL, SL to GW, DAF 20
Barium	2,699	NMED SSL, SL to GW, DAF 20
Chromium	205,256	NMED SSL, SL to GW, DAF 20
Copper	915	NMED SSL, SL to GW, DAF 20
Fluoride	12,014	NMED SSL, SL to GW, DAF 20

Summary of Proposed Alternative Treatment Zone Closure Standards

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Parameter	Proposed Alternative TZ Closure Standard (mg/kg)	Rationale
Iron	16,000	Within Vadose Zone Background concentration ranges
Lead	270	NMED SSL, SL to GW, DAF 20
Manganese	2,630	NMED SSL, SL to GW, DAF 20
Nitrate (NO₃ as N)	425	NMED SSL, SL to GW, DAF 20
Radioactivity (Combined Ra 226 & 228)	2.98	Within Vadose Zone Background concentration ranges
Sulfate	250	Current treatment zone concentrations; groundwater sulfate concentrations are between 100-140 mg/L and below the WQCC standard (600 mg/L).
Zinc	7,412	NMED SSL, SL to GW, DAF 20

Based on these results, BMG is seeking approval of the alternative treatment zone closure standards, and once approved BMG will provide NMOCD with 60-day notice of closing the treatment zones for Cells 2 and 3. Note that groundwater monitoring at the evaporation ponds and vadose zone sampling of all four landfarm cells continues per NMAC 19.15.36.15.E. Additionally, 5-year vadose zone sampling will be completed in early December 2022.

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

Sincerely,

Angela Ledgerwood

Angela Ledgerwood, CHMM, PMP Senior Project Manager

Elizabeth V Merdly

Elizabeth McNally, P.E. Principal

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Tables

Table 1. Treatment Zone Soil Analytical Results

Table 2. Treatment Zone Concentrations, NMOCD Approved Background Levels and NMED SSLs

Figures

Figure 1. Treatment Zone Monitoring Locations and Results, 2022

Appendix

Soil Sample Collection Forms and Laboratory Analytical Reports, March and June 2022 Groundwater Laboratory Analytical Report, November 2022

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

BMG Projects (Non-SPCC) - Documents\Landfarm\Reports\2022.11.14 BMG Landfarm 2022 Cells 23 closure notice EM REV.docx

Tables

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 Le 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
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	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

Analyte not detected above listed method limit

NM Not Measured

Notes:

TPH Total Petroleum Hydrocarbons

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TABLE 2 TREATMENT ZONE CONCENTRATIONS, NMOCD BACKGROUND LEVELS, AND NMED SSLs BMG Landfarm, Rio Arriba County, New Mexico

Parameter	USEPA Method	TZ Cell #1 (mg/kg)	TZ Cell #2 (mg/kg)	TZ Cell #3 (mg/kg)	TZ Cell #4 (mg/kg)	Vadose Zone Background Concentration Ranges	NMOCD Approved Vadose Zone Background Value (mg/kg)	NMED SSL Leaching to GW DAF 20 (mg/kg)
	Date Sampled	4/2/2020	6/15/2022	6/15/2022	4/2/2020	2014	2016	2019
NMAC 20.6.2.3103 (A and B)								
List A								
Arsenic	6010B or 6020A	<5.1	4.0	4.3	<4.9	2.5	2.5	5.8
Barium	6010B	73	680	97	110	42 - 130	42	2699
Chloride	300.0	18	33	24	<7.5	1.5-7.5	25	
Chromium	6010B	6.4	11	9.3	10	4.4 - 19	4.4	205256
Copper	6010B	5.3	15	12	8.8	3.4 - 14	3.4	915
Fluoride	300.0	1.9	2.8	2.8	1.6	0.6 - 3.0	0.6	12014
Iron	6010B	11,000	16,000	16,000	16,000	6,500 - 25,000	6,500	6960
Lead	6010B or 6020A	2.4	15	12	3.7	2.1 - 8.4	2.1	270
List B								
Manganese	6010B	240	220	200	270	140 - 310	140	2630
Nitrate (NO ₃ as N)	300.0	5.9	<1.5	7.2	6.2	0.30-0.45	0.3	425
Radioactivity (Combined Ra 226 & 228)	901.1 Gamma Spec	1.670	2.168 ± 0.762	2.360 ± 0.616	2.524	1.3 - 3.5	1.3	
Sulfate	300.0	9.9	240	90	12	1.5 - 16	1.5	
Zinc	6010B	23	41	41	32	13 - 56	13	7412

Notes:

NA * = Not analyzed; no sampling method exists for TDS in soils. Samples analyzed at Hall Environmental Analysis Laboratory, Albuquerque, NM. Vadose Zone Background Values approved by NMOCD, October 2016. Received by OCD: 11/22/2022 4:24:31 PM

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Figures

TREATMENT ZONE MONITORING LOCATIONS, MARCH AND JUNE 2022								
LAB SAMPLE ID	SAMPLE LOCATION	SAMPLE DATE	SAMPLE DEPTH (ft)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	CHLORIDE (mg/kg)	
	2,50	0 GRO/DRO/I 500 GRO/DRC	VIRO)	500				
	CELL #1			NO SAMPLES COLLECTED				
Cell #2 TZ CS-1	CELL #2	9-Mar-22	0.5	<4.9	430	920	<60	
Cell #2 TZ CS-1	CELL #2	16-Jun-22	0.5	<4.9	270	380	33	
Cell #3 TZ CS-1	CELL #3	9-Mar-22	0.5	<4.9	130	270	<60	
Cell #3 TZ CS-1	CELL #3	16-Jun-22	0.5	<4.9	210	270	24	
CELL #4 NO SAMPLES COLLECTED								
ALL SAMPLES WEF	RE COMPOSITE SAMPLES.							







Appendix

BMG Landfarm Soil Sampling - Treatment Zone (TZ)

Composite Samples

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

a int

reconician:	00150
2	g reconician:

<u> </u>		nale-the second product and advance of the second	CELL #1		N		
Sample ID:	TZ-1A	TZ-1B		TZ-1C		TZ-1D	
GPS: (4 locations)		\frown					
Time of sample into bag:		1/2	CAMPDIES			/	
Sample depth (ft):		1 1/0	OMMPLES				
Soil characteristics:							
(odor, color, texture)							
Composite Sample Time:			e	·		· · · · · · · · · · · · · · · · · · ·	

CELL #2								
Sample ID:	TZ-2A	TZ-2B	TZ-2C	TZ-2D				
GPS: (4 locations)	36.39009, -106.86697	36.38983, -106.86623	36.38979, -106.86557	36.39036,-106.86675				
Time of sample into bag:	10:47	10:59	11:08	11:22				
Sample depth (ft):	6.25	0.25	0.25	0.25				
Soil characteristics:	Sandy Clay, Morrit, Brown	Clay Brown and Dak Brown	Clayey Sand, Wet, Dark Brown	dayey Sand Soute Brown				
(odor, color, texture)	No Stains No OLor	Layer, Wet, No String, No 8 Lor	No Stains, No odar	Movet, No Stains No da				
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, -106.84466	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:	Clay Sand, Buck Brown, Mrist	Clay Sand, Dark Brown, Moist	Clay Sand, Dulc Brown, Murit	Claysand, Dark Bran, Mord
(odor, color, texture)	No Olar No Stain	No odor No Stains	No Ochr, No Stains, Organies	Nodar, No Sain
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:		IN CANDI	FE	/
Sample depth (ft):		NO SMALL	=)	
Soil characteristics:				
odor, color, texture)				
Composite Sample Time:			10	
Additional Notes:				
ô				Mark .
ea				M.
<i>60</i>				
200				

BMG Landfarm Soil Sampling - Vadose Zone (VZ) Date: <u>3-9-22</u> Sampling Technician: <u>W/TD</u>

X = grab Sample. Composite all cells



Released to

Date:	3-9-22	Sampling Technician:	a/50	

Received by

		CELL #1 (Composite Sample Time = 10:40	
Sample ID:	Cell #1 VZ S-1长	Cell #1 VZ S-2	Cell #1 VZ S-3	Cell #1 VZ S-4
GPS: (4 locations)	36.38876, -106.86555	36.38898,106.86601	36.38941, 106, 86695	36.38968,-106. 46759
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:	any Brown, Shiff, No Stuins No	Hard, My, Clay, Green-Gray, No Stains	Hard, Dry, Clay, Bark Brown, No Stains	Hard, Dry, Clay, Dark Brown
(odor, color, texture)	adus.	No odor	No oda	•
Comple ID:		CELL #2 (Jo	mprosite Sample Time = 11:28	
CDS: (4 locations)	Cell #2 VZ S-1 X	Cell #2 VZ S-2	Cell #2 VZ S-3	Cell #2 VZ S-4
GPS: (4 locations)	76.51009, -106.86697	36.38787, -106.86623	26.38979, -106.8655 +	
Sample Time:	10:57	No Samples; only for composite		~
CELL #1CELL #1Cell #1 V2 5-1GPS: (4 locations) $\frac{1}{2}$ b. $\frac{5}{2}$ Strept $\frac{1}{2}$ Cell #1 V2 5-3Cell #1 V2 5-4GPS: (4 locations) $\frac{1}{2}$ b. $\frac{5}{2}$ Strept $\frac{1}{2}$ Cell #1 V2 5-3Cell #1 V2 5-4GPS: (4 locations) $\frac{1}{2}$ b. $\frac{5}{2}$ Strept $\frac{1}{2}$ cell #1 V2 5-4 $\frac{1}{2}$ Cell #1 V2 5-4GPS: (4 locations) $\frac{1}{2}$ b. $\frac{5}{2}$ Strept $\frac{1}{2}$ cell #1 V2 5-4 $\frac{1}{2}$ cell #1 V2 5-4Sample ID:(1) 4 S $\frac{1}{2}$ cell #1 V2 5-4 $\frac{1}{2}$ cell #1 V2 5-4Sample ID:Cell #2 V2 5-1.3(1) $\frac{1}{2}$ cell #2 V2 5-1(1) $\frac{1}{2}$ cell #2 V2 5-4GPS: (4 locations) $\frac{1}{2}$ b. $\frac{5}{2}$ 7000 $\frac{1}{2}$ -100. $\frac{2}{2}$ (cell #2 V2 5-2(1) $\frac{1}{2}$ V2 5-4GPS: (4 locations) $\frac{1}{2}$ b. $\frac{5}{2}$ 7000 $\frac{1}{2}$ -100. $\frac{2}{2}$ (cell #2 V2 5-2(1) $\frac{1}{2}$ V2 5-4GPS: (4 locations) $\frac{1}{2}$ b. $\frac{5}{2}$ 7000 $\frac{1}{2}$ -100. $\frac{2}{2}$ (cell #2 V2 5-2(1) $\frac{1}{2}$ Cell #2 V2 5-4GPS: (4 locations) $\frac{1}{2}$ b. $\frac{5}{2}$ 7000 $\frac{1}{2}$ -100. $\frac{2}{2}$ (cell #2 V2 5-2(1) $\frac{1}{2}$ Cell #2 V2 5-4GPS: (4 locations) $\frac{1}{2}$ b. $\frac{5}{2}$ 7000 $\frac{1}{2}$ -100. $\frac{2}{2}$ (cell #2 V2 5-2(1) $\frac{1}{2}$ Cell #2 V2 5-4GPS: (4 locations) $\frac{1}{2}$ b. $\frac{5}{2}$ 7000 $\frac{1}{2}$ cell #2 V2 5-4 $\frac{1}{2}$ Cell #2 V2 5-4GPS: (4 locations) $\frac{1}{2}$ b. $\frac{5}{2}$ (docations) $\frac{1}{2}$ b. $\frac{5}{2}$ (docations) $\frac{1}{2}$ b. $\frac{5}{2}$ (cell #2 V2 5-4Sample ID:Cell #3 V2 5-1Cell #3 V2 5-1Cell #3 V2 5-4 $\frac{1}{2}$ Cell #2 V2 5-4 </td				
Auger/Sample depth (ft)	4.5	4.5	4.5	4.5
Soil characteristics:	Sandy Clay, Dink bran, Morst, Hard	Sand, Tan, Med, Morist, No odor	Sand, Tan, Med, Moist, No Oder	Sand, Tan Brown, Med, Morst
(odor, color, texture)	No Stains, No ola	No Strins	No Starne	No odor No Starns
		CELL #3	mposite Sample Time = 12:15	
Sample ID:	Cell #3 VZ S-1	Cell #3 VZ S-2 米	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	/1:50	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:	Hond Clay, Net, Brown, No Que	Hand, Silly Clay, Tan, Moist, No Ola	Hard, Clay, Brown, Dry, No Oder	Hard, Silly Clay. Brown Bry
(odor, color, texture)	No Staining	plo Stains	NoStains	N. Oter NV Strins
		CELL #4 /	smposite Sample Time = 12:4	5
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,-106.86346	36.38921, -106.86314	36.38908 -106.86275	36.38894, -106, 86225
Sample Time:	12:27	No Samples ; only for composit	E	
Shovel depth (ft)*:	4-25	4.25	4.25	4.0
Auger/Sample depth (ft)	4.5	4.5	45	45
Soil characteristics:	Hard, Sily Clay, An Tan, Node	Hord, Silter Clay Don Tan Noble	Hard Silty Clan, Tan. Brs No. A.L.	Hand, Silly clan, Tan, Dry, No Or
(odor, color, texture)	Nº strin	No Shin	No Status	Nº Stainin
* - Backhoe used to shovel	1		1	
Additional Notes:				

Received by OCD: 11/22/2022 4:24:31 PM



Released to Imaging: 12/23/2022 10:20:07 AM



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:

OrderNo.: 2203680

RE: BMG Landfarm TZ Soil Samples

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,

Andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Project:

CLIENT: Animas Environmental Services

BMG Landfarm TZ Soil Samples

Analytical Report Lab Order 2203680

Date Reported: 3/21/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: Cell #2 TZ CS-1 Collection Date: 3/9/2022 11:24:00 AM Received Date: 3/11/2022 8:00:00 AM

Lab ID: 2203680-001	Matrix: SOIL	Re	ceived Dat	e: 3/11/2	2022 8:00:00 AM
Analyses	Result	RL Q	Qual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RAM	IGE ORGANICS				Analyst: SB
Diesel Range Organics (DRO)	430	93	mg/K	g 10	3/15/2022 1:58:39 PM
Motor Oil Range Organics (MRO)	920	470	mg/K	g 10	3/15/2022 1:58:39 PM
Surr: DNOP	0	51.1-141	S %Re	: 10	3/15/2022 1:58:39 PM
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/K	g 1	3/15/2022 2:45:07 AM
Surr: BFB	104	70-130	%Re	; 1	3/15/2022 2:45:07 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/K	g 1	3/15/2022 2:45:07 AM
Toluene	ND	0.049	mg/K	g 1	3/15/2022 2:45:07 AM
Ethylbenzene	ND	0.049	mg/K	g 1	3/15/2022 2:45:07 AM
Xylenes, Total	ND	0.099	mg/K	g 1	3/15/2022 2:45:07 AM
Surr: 4-Bromofluorobenzene	95.6	70-130	%Re	; 1	3/15/2022 2:45:07 AM
EPA METHOD 300.0: ANIONS					Analyst: LRN
Chloride	ND	60	mg/K	g 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. D
- Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit S
 - % Recovery outside of range due to dilution or matrix interference
- в Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 1 of 6

Project:

CLIENT: Animas Environmental Services

BMG Landfarm TZ Soil Samples

Analytical Report Lab Order 2203680

Date Reported: 3/21/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: Cell #3 TZ CS-1 Collection Date: 3/9/2022 12:07:00 PM Received Date: 3/11/2022 8:00:00 AM

Lab ID: 2203680-002	Matrix: SOIL	Rece	eived Date:	3/11/2	022 8:00:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RAI	NGE 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 RA	NGE				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. D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- Н ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit S
 - % Recovery outside of range due to dilution or matrix interference
- в Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 2 of 6

Client: Project:	Anima BMG	s Environmer Landfarm TZ	ntal Ser Z Soil S	vices amples							
Sample ID:	MB-66250	SampT	ype: m t	olk	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID:	PBS	Batch	ID: 66	250	R	unNo: 86	6570				
Prep Date:	3/17/2022	Analysis D	ate: 3/	17/2022	S	eqNo: 30	055565	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID:	LCS-66250	SampT	ype: Ics	;	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch	ID: 66	250	R	unNo: 86	6570				
Prep Date:	3/17/2022	Analysis D	ate: 3/	17/2022	S	eqNo: 30	055566	Units: mg/K	g		
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 Quanitative 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

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2203680

21-Mar-22

WO#:

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:	Anima	s Environme	ntal Ser	vices							
Project:	BMG	Landfarm TZ	Z Soil S	amples							
Sample ID: L	.CS-66161	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: L	CSS	Batch	h ID: 66	161	F	RunNo: 86	6464				
Prep Date:	3/14/2022	Analysis D	Date: 3/	15/2022	S	SeqNo: 30	051926	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Org	ganics (DRO)	45	10	50.00	0	89.9	68.9	135			
Surr: DNOP		4.1		5.000		81.3	51.1	141			
Sample ID: N	IB-66161	SampT	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID: P	BS	Batch	h ID: 66	161	F	RunNo: 86	6464				
Prep Date:	3/14/2022	Analysis D	Date: 3/	15/2022	S	SeqNo: 30	051927	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Org	ganics (DRO)	ND	10								
Motor Oil Range	Organics (MRO)	ND	50								
Surr: DNOP		8.9		10.00		89.0	51.1	141			
Sample ID: L	.CS-66204	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: L	CSS	Batch	h ID: 66	204	F	RunNo: 86	6505				
Prep Date:	3/16/2022	Analysis D	Date: 3/	16/2022	5	SeqNo: 30	052645	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: N	IB-66204	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID: P	BS	Batch	h ID: 66	204	F	RunNo: 86	6505				
Prep Date:	3/16/2022	Analysis D	Date: 3/	16/2022	5	SeqNo: 30	052646	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 Quanitative Limit

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

Released to Imaging: 12/23/2022 10:20:07 AM

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

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21-Mar-22

WO#:

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Client: Animas Project: BMG L	Environmer andfarm TZ	ntal Ser Z Soil Sa	vices amples							
Sample ID: mb-66140	SampT	ype: ME	BLK	Test	tCode: EF	PA Method	8015D: Gaso	line Range	e	
Client ID: PBS	Batch	n ID: 661	140	R	unNo: 86	6458				
Prep Date: 3/13/2022	Analysis D	ate: 3/	14/2022	S	SeqNo: 30	50309	Units: mg/K	g		
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: Ics-66140	SampT	ype: LC	S	Test	tCode: EF	PA Method	8015D: Gaso	line Range	e	
Client ID: LCSS	Batch	n ID: 661	140	R	unNo: 86	6458				
Prep Date: 3/13/2022	Analysis D	ate: 3/	14/2022	S	6eqNo: 30	050310	Units: mg/K	g		
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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- в Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Sample pH Not In Range

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2203680

21-Mar-22

WO#:

Р RL Reporting Limit

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Anima Project: BMG	Animas Environmental Services BMG Landfarm TZ Soil Samples												
Sample ID: mb-66140	SampT	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles					
Client ID: PBS	Batcl	h ID: 66	140	F	RunNo: 8	6458							
Prep Date: 3/13/2022	Analysis E	Date: 3/	14/2022	S	SeqNo: 3	050380	Units: mg/K	g					
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	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles					
Client ID: LCSS	Batcl	h ID: 66'	140	F	RunNo: 8	6458							
Prep Date: 3/13/2022	Analysis E	Date: 3/	14/2022	S	SeqNo: 3	050381	Units: mg/K	(g					
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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- в Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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2203680

21-Mar-22

WO#:

Received by OCD HALL ENVIR ANAL LABOI	D: 11/22/2022 4:24:31 P Ronmental Ysis Ratory	M Hall Environme TEL: 505-345-2 Website: clien	ntal Anal 49 Albuquer 8975 FAX ts.hallenv	ysis Labor 01 Hawki, que, NM 8 : 505-345 ironmenta	ratory ns NE 87109 Sa -4107 1l.com	Sample Log-In Check List						
Client Name:	Animas Environmental Services	Work Order Num	ber: 22(3680		RcptNo: 1						
Received By:	Desiree Dominguez	3/11/2022 8:00:00	АМ		TP>							
Completed By:	Desiree Dominguez	3/11/2022 11:30:54	AM		TP							
Reviewed By:	TMC	3/11/22		\langle	2	\sim						
Chain of Cus	todv		6									
1. Is Chain of Cu	ustody complete?		Ve		No 🗌	Not Present						
2. How was the	sample delivered?		Col	rier								
	 (1)5 - 105-500 (2000) (2000) (2000) 		000									
Log In 3. Was an attem	pt made to cool the samples	5?	Yes		No 🗌							
4. Were all samp	les received at a temperatur	re of >0° C to 6.0°C	Yes		No 🗹							
5. Sample(s) in p	proper container(s)?		Yes		No 🗌							
6. Sufficient sam	ple volume for indicated test	(s)?	Yes	\checkmark	No 🗌							
7. Are samples (e	except VOA and ONG) prope	erly preserved?	Yes	\checkmark	No 🗌							
8. Was preservat	ive added to bottles?		Yes		No 🔽	NA 🗌						
9. Received at lea	ast 1 vial with headspace <1		Vaa		No 🗔							
10. Were any sam	ple containers received brok	ken?	Ves			NA 💌						
11. Does paperwor	rk match bottle labels?		Yes		No 🗌	# of preserved bottles checked for pH:	/					
(Note discrepa	ncies on chain of custody)					(<2 or >12 unless no	oted)					
12. Are matrices co	orrectly identified on Chain o	f Custody?	Yes	\checkmark	No 🗌	Adjusted?						
13. Is it clear what	analyses were requested?		Yes	\checkmark	No 🗌							
(If no, notify cu	g times able to be met? stomer for authorization.)		Yes	\checkmark	No 🗌	Checked by MC 3/	11/22					
Special Handli	ng (if applicable)											
15. Was client noti	ified of all discrepancies with	this order?	Vaa		N							
Person	lotified:		pres			NA 🗹						
By When	nounied.	Date:	-									
Begardin	n	Via:	eMa	ail [] Pl	hone 🗌 Fax	In Person						
Client Ins	structions		På anter de anter en en en	Correction Consectioners	a a station of the state of the state of the							
16. Additional rem	arks:											
	ans.											
17. <u>Cooler Inform</u> Cooler No 1	nation Temp °C Condition S -0.5 Good Ye	Seal Intact Seal No	Seal Da	ite	Signed By							

(Chain	-of-C	ustody Record	Turn-Around T	ïme:			See.		244								
Client:		Animas E	Environmental Services	Standard	□ Rus	h					HAI		EN	/IR		M	EN.	TA
				Project Name:			-				AN/	ALY	/SI	SL	AB	OR	AT	O
Mailing	g Addres	s:	P.O. Box 8	BMG	Landfarm - TZ	Z soil samples	25			W	/ww.ha	allenvi	ironme	ental.c	om			
	Fa	rmington	, NM 87499-0008	Project #:			-	49	901 H	Hawkin	wkins NE - Albuquerque, NM 87109							
Phone	#:	720-537	7-6650	-	AES 0406	605		•	el. 5	05-345	5-3975	F	-ax 50	05-345	5-410	7		7.0
email c	or Fax#:	aledgerwo	ood@animasenvironmental.com	Project Manage	ər:			İ					SIS RE	ques				
QA/QC	Package:			Angela Ledgerwood				015										4.01
🛛 Sta	ndard		□ Level 4 (Full Validation)	Elizabeth McNally			0.0	hod 8										E IR
Accred	itation:	🗆 Az Co	ompliance	Sampler:	CLIT	70	130	Met	21B									
	AC	□ Othe	r	On Ice:	D Yes	□ No	tho	O via	802									
)(lype) 	Т		# of Coolers:	1		Me	/ MR	thod									
				Cooler Temp(inc	uding CF): -0.5	-0.0= -0.5%	s via	DRO	Met									
Date	Time	Matrix	Sample Name	Container Type and #	Preservativ e Type	HEAL No.	hloride	PH GRO /	TEX via									
39-22	11:24	Soil	Cell #2 TZ CS-1	🔏 - 4 oz jar	Cool	-001	X	⊨ X	m X					+			-	$\left - \right $
3-9-22	12:07	Soil	Cell #3 TZ CS-1	3 - 4 oz jar	Cool	-002	X	X	X				_					
															-		-	$\left - \right $
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Released to Imaging: 12/23/2022 10:20:07 AM

nples 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



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

OrderNo.: 2203674

RE: BMG Landfarm VZ Soil Samples

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,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Project: BMG Landfarm VZ Soil Samples

Analytical Report Lab Order 2203674

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/7/2022 Client Sample ID: Cell #1 VZ S-1 Collection Date: 3/9/2022 10:03:00 AM

Lab ID: 2203674-001	Matrix: SOIL]	Received Date	e: 3/1	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	1				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.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix 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 1 of 18

CLIENT: Animas Environmental Services

Project: BMG Landfarm VZ Soil Samples

Analytical Report Lab Order 2203674

Date Reported: 4/7/2022

|--|

Client Sample ID: Cell #1 VZ Composite Collection Date: 3/9/2022 10:40:00 AM Received Date: 3/11/2022 8:00:00 AM

Lab ID: 2203674-002	Matrix: SOIL		Receiv	ved Date	: 3/1	1/2022 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
рН	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.

* Value exceeds Maximum Contaminant Level. **Qualifiers:**

- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- Analyte detected in the associated Method Blank в
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 2 of 18

Project: BMG Landfarm VZ Soil Samples

Analytical Report Lab Order 2203674

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/7/2022 Client Sample ID: Cell #2 VZ S-1 Collection Date: 3/9/2022 10:55:00 AM

Lab ID: 2203674-003	Matrix: SOIL	I	Received Date	e: 3/	11/2022 8:00:00 AM	
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RA	ANGE 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 R	ANGE				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.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix 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

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Project: BMG Landfarm VZ Soil Samples

Hall Environmental Analysis Laboratory, Inc.

Analytical Report Lab Order 2203674

Date Reported: 4/7/2022

Client Sample ID: Cell #2 VZ Composite Collection Date: 3/9/2022 11:28:00 AM Received Date: 3/11/2022 8:00:00 AM

Lab ID: 2203674-004	Matrix: SOIL		Recei	ved Date	: 3/1	1/2022 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.

- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix 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

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Analytical Report Lab Order 2203674

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/7/2022 Client Sample ID: Cell #3 VZ S-2

Project:	BMG Landfarm VZ Soil Sa	amples	(Collection Dat	e: 3/9	9/2022 11:50:00 AM	
Lab ID:	2203674-005	Matrix: SOIL		Received Dat	e: 3/1	1/2022 8:00:00 AM	
Analyses	S	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA ME	THOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst	: SB
Diesel F	Range Organics (DRO)	ND	9.6	mg/Kg	1	3/16/2022 4:29:52 PM	66179
Motor O	il 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 ME	THOD 8015D: GASOLINE R	ANGE				Analyst	RAA
Gasolin	e 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 ME	THOD 8021B: VOLATILES					Analyst	RAA
Benzen	e	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
Ethylbei	nzene	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.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix 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

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Analytical Report Lab Order 2203674

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/7/2022 Client Sample ID: Cell #3 VZ S-3

Project:	BMG Landfarm VZ Soil Sa	amples	(Collection Dat	e: 3/9	9/2022 12:01:00 PM	
Lab ID:	2203674-006	Matrix: SOIL		Received Dat	e: 3/1		
Analyse	S	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA ME	THOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst	t: SB
Diesel F	Range Organics (DRO)	ND	9.9	mg/Kg	1	3/16/2022 4:40:39 PM	66179
Motor C	0il 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 ME	THOD 8015D: GASOLINE R	ANGE				Analyst	: RAA
Gasolin	e 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 ME	THOD 8021B: VOLATILES					Analyst	:: RAA
Benzen	е	ND	0.024	mg/Kg	1	3/14/2022 6:35:00 PM	66128
Toluene	9	ND	0.049	mg/Kg	1	3/14/2022 6:35:00 PM	66128
Ethylbe	nzene	ND	0.049	mg/Kg	1	3/14/2022 6:35:00 PM	66128
Xylenes	s, 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.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix 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

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CLIENT: Animas Environmental Services

Project: BMG Landfarm VZ Soil Samples

Analytical Report Lab Order 2203674

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/7/2022 Client Sample ID: Cell #3 VZ S-4 Collection Date: 3/9/2022 12:12:00 PM

Lab ID: 2203674-007	Matrix: SOIL		Received Date	acceived 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.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix 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

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Project: Lab ID:

CLIENT: Animas Environmental Services

2203674-008

BMG Landfarm VZ Soil Samples

Analytical Report Lab Order 2203674

Date Reported: 4/7/2022

Client Sample ID: Cell #3 VZ Composite Collection Date: 3/9/2022 12:15:00 PM 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
рН	8.08		pH Units	s 1	4/6/2022 3:00:00 PM	R87048

Matrix: SOIL

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

Qualifiers: * Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix 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

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CLIENT: Animas Environmental Services

Project: BMG Landfarm VZ Soil Samples

Analytical Report Lab Order 2203674

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/7/2022 Client Sample ID: Cell #4 VZ S-1 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	E				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.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix 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

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Lab ID:

CLIENT: Animas Environmental Services **Project:** BMG Landfarm VZ Soil Samples

2203674-010

Analytical Report Lab Order 2203674

Date Reported: 4/7/2022

Hall Environmental Analysis Laboratory, Inc.	

Matrix: SOIL

Client Sample ID: Cell #4 VZ Composite
Collection Date: 3/9/2022 12:45:00 PM
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
рН	8.31		pH Units	s 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.

* Value exceeds Maximum Contaminant Level. **Qualifiers:**

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference в Analyte detected in the associated Method Blank

Е Estimated value

J Analyte detected below quantitation limits

Р Sample pH Not In Range RL

Reporting Limit

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Received by OCD: 11/22/2022 4:24:31 PM



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March 25, 2022

Hall Environmental Analysis Laboratory

Sample Delivery Group:

Samples Received: Project Number:

L1471292 03/15/2022

Report To:

Description:

Andy Freeman 4901 Hawkins NE Albuquerque, NM 87109

Ср Тс Ss Cn Śr ʹQc Gl A Sc

Entire Report Reviewed By: John V Hautins

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

Released to Imaging: 22/23/2022 10:20:07 AM Hall Environmental Analysis Laboratory

PROJECT:

SDG: L1471292

DATE/TIME: 03/25/22 18:56

PAGE: 1 of 13

Ср

Ss

Cn

Sr

Qc

GI

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2203674-004B CELL #2 VZ COMPOSITE L1471292-02	6
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SDG: L1471292

DATE/TIME: 03/25/22 18:56 PAGE: 2 of 13 Received by OCD: 11/22/2022 4:24:31 PM

SAMPLE SUMMARY

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			Collected by	Collected date/time	Received date/time		
2203674-002B CELL #1 VZ COMPOSITE L147	1292-01 Solid			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	
			Collected by	Collected date/time	Received da	ite/time	
2203674-004B CELL #2 VZ COMPOSITE L147	71292-02 Soli	d		03/09/22 11:28	03/15/22 09	:30	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location	
			date/time	date/time			
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	
			Collected by	Collected date/time	Received da	ite/time	
2203674-008B CELL #3 VZ COMPOSITE L147	71292-03 Solio	d		03/09/22 12:15	03/15/22 09	:30	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location	
			date/time	date/time			
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	
			Collected by	Collected date/time	Received da	ite/time	
2203674-010B CELL #4 VZ COMPOSITE L147	1292-04 Solid			03/09/22 12:45	03/15/22 09	:30	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location	
			date/time	date/time			
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	

SDG: L1471292 DATE/TIME: 03/25/22 18:56

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CASE NARRATIVE

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 V Haukins

John Hawkins Project Manager



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Received4by OLEDC 11/22/2022(4) 24:35 PM

ND

SAMPLE RESULTS - 01

Qc

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Wet Chemistry by Method 9012B

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

Total Phenol by 4AAP

wet enemistry by	Wet offernaty by Method 3012B							
	Result	Qualifier	RDL	Dilution	Analysis	Batch		Ср
Analyte	ug/kg		ug/kg		date / time			2
Cyanide	ND		250	1	03/17/2022 17:56	WG1832557		Tc
Wet Chemistry by Method 9066								³ Ss
	Result	Qualifier	RDL	Dilution	Analysis	Batch		
Analyte	ug/kg		ug/kg		date / time			4 Cn

1

03/24/2022 23:28

WG1835525

Receive 7444 10 04ED: EU122/2022 4024 P.DISPM

ND

SAMPLE RESULTS - 02

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Wet Chemistry by Method 9012B

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

Total Phenol by 4AAP

							1°Cn
	Result	Qualifier	RDL	Dilution	Analysis	Batch	 Cp
Analyte	ug/kg		ug/kg		date / time		2
Cyanide	ND		250	1	03/17/2022 17:59	WG1832557	Tc
Wet Chemistry by I	Method 9066						³ Ss
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	ug/kg		ug/kg		date / time		4 Cn

1

03/24/2022 23:29

WG1835525

Receive 74440 OCDC #11/2#12922 4024 P.DISPM

ND

SAMPLE RESULTS - 03

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Cn

Qc

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Wet Chemistry by Method 9012B

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

Total Phenol by 4AAP

	Result	Qualifier	RDL	Dilution	Analysis	Batch	 Ср
Analyte	ug/kg		ug/kg		date / time		2
Cyanide	ND		250	1	03/17/2022 18:00	WG1832557	Tc
Wet Chemistry by Method 9066						³ Ss	
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	ug/kg		ug/kg		date / time		⁴ Cn

1

03/24/2022 23:30

WG1835525

ND

SAMPLE RESULTS - 04

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Collected date/time: 03/09/22 12:45 Wet Chemistry by Method 9012B

Total Phenol by 4AAP

wet chemistry by							1
	Result	Qualifier	RDL	Dilution	Analysis	Batch	 Ср
Analyte	ug/kg		ug/kg		date / time		2
Cyanide	ND		250	1	03/17/2022 18:04	WG1832557	Tc
Wet Chemistry by	Method 9066						³ Ss
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	ug/kg		ug/kg		date / time		4 Cn
T	NE						

1

03/24/2022 23:30

WG1835525

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Wet Chemistry by Method 9012B

QUALITY CONTROL SUMMARY L1471292-01,02,03,04

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Tc

Ss

Method Blank (MB)

(MB) R3771148-1 03/17/22 17:47						
	MB Result	MB Qualifier	MB MDL	MB RDL		
Analyte	ug/kg		ug/kg	ug/kg		
Cyanide	U		73.3	250		

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

L14/0523-01 Origi	nai Sample	(OS) • Dup	plicate (DUP)		
(OS) L1470523-01 03/17/2	22 17:51 • (DUP)	R3771148-3 0	3/17/22 17:	52		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/kg	ug/kg		%		%
Cyanide	ND	ND	1	0.000		20

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

L1471292-03 Origin	al Sample	(OS) • Dup	licate (l	OUP)			⁷ Gl
(OS) L1471292-03 03/17/22	2 18:00 • (DUP)	R3771148-6 03	3/17/22 18	:01			
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits	⁸ Al
Analyte	ug/kg	ug/kg		%		%	
Cyanide	ND	ND	1	0.000		20	°Sc

Laboratory Control Sample (LCS)

(LCS) R3771148-2 03/17/22	17:48				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	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												
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/kg	ug/kg	ug/kg	ug/kg	%	%		%			%	%
Cyanide	1670	ND	362	583	21.7	35.0	1	75.0-125	<u>J6</u>	<u>J3 J6</u>	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												
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/kg	ug/kg	ug/kg	ug/kg	%	%		%			%	%
Cyanide	1670	ND	1710	1680	102	101	1	75.0-125			1.30	20

Released to Imaging^{AC}F2/2/37/2022 10:20:07 AM Hall Environmental Analysis Laboratory

PROJECT:

SDG: L1471292

DATE/TIME: 03/25/22 18:56

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Wet Chemistry by Method 9066

QUALITY CONTROL SUMMARY

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Method Blank (MB)

(MB) R3773813-1 03/24/22	2 23:25			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/kg		ug/kg	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

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/kg	ug/kg		%		%
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 Spike Amount LCS Result LCS Rec. Rec. Limits LCS Qualifier

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

Sample Narrative:

OS: Dilution due to matrix.

SDG: L1471292 DATE/TIME: 03/25/22 18:56

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.

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

J6

SDG: L1471292 PAGE: 11 of 13

Sc

Received by OCD: 11/22/2022 4:24:31 PACCREDITATIONS & LOCATIONS

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Τс

Ss

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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
lowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky ¹⁶	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ¹⁴	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.

SDG: L1471292 PAGE: 12 of 13

	ENVIRONI ANALYSIS	22/2022 4:24:31 PM MENTAL G ORY	CHAIN O	F CUS'	TODY	REC	ORD	: ol	F: 1	ata a	Hall Environn Website: clier	nental Analysis 4901 F Albuquerque, TEL: 50. FAX: 50. nts.hallenviron.	Page 53 Laboratory Page 53 Iawkins NE NM 87109 5-345-3975 5-345-4107 mental.com
SUB CO	NTRATOR: Pace	COMPANY:	PACE TN		1000 - 1000 1000 - 1000 1000 - 1000 1000 - 1000		PHONE:	(800)	767-5859	FAX:	(615)	758-5859	
ADDRE	ss: 12065	Lebanon Rd			, 1947 - 1947 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 -		ACCOUNT #:			EMAIL:			
CITY, ST	TATE, ZIP: Mt. Ju	ıliet, TN 37122				- Al				1798-1 1797 1997			
							and the	# CON		k.			71797
ITEM	SAMPLE	CLIENT SAMPLE ID	1	BOTTLE TYPE	MATRIX	CO	LLECTION DATE	TAINERS	A	NALYTI	CAL CO	MMENT	S
1	2203674-002B	Cell #1 VZ Composite	40	ZGU	Soil	3/9/2022	2 10:40:00 AM	2 Total C	Cyanide, Ra 226/	228, Total Phe	nolics by 9066	;	-01
2	2203674-004B	Cell #2 VZ Composite	40	ZGU	Soil	3/9/2022	2 11:28:00 AM	2 Total (Cyanide, Ra 226/	228, Total Phe	nolics by 9066	5	-02
3	2203674-008B	Cell #3 VZ Composite	40	ZGU	Soil	3/9/202	2 12:15:00 PM	2 Total (Cyanide, Ra 226/	228, Total Phe	nolics by 9066	5	-03
4	2203674-010B	Cell #4 VZ Composite	40	ZGU	Soil	3/9/2022	2 12:45:00 PM	2 Total (Cyanide, Ra 226/	228, Total Phe	nolics by 9066	;	-04
											B160		

Sample Recei	pæ Checklist
COC Seal Present/Intact: Y	N If Applicable N VOA Zero Headspace: Y N
Bottles arrive intact:	N Pres.Correct/Check: Y_N
Sufficient volume sent:	1.7+0= 1.7

SPECIAL INSTRUCTIONS / COMMENTS:

5528 5947 9308

Cnt=8 TB=0

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. 3/15/22 REPORT TRANSMITTAL DESIRED: T. Pobertson Ting 30 Date: Relinquished By: Time: SBC 3/11/2022 12:05 PM HARDCOPY (extra cost) G FAX EMAIL ONLINE Date: Time: Received By: Date: Time: Relinquished By: FOR LAB USE ONLY Date: Time: Received By: Date: Time: Relinquished By: Temp of samples \mathcal{C} Attempt to Cool? 3rd BD 2nd BD Standard 🛃 RUSH Next BD TAT: Comments:

Received by OCD: 11/22/2022 4:24:31 PM



ce Analytica	ANALYTI April	CAL REPORT
	Hall Environmental A	nalysis Laboratory
	Sample Delivery Group:	L1471295
	Samples Received:	03/15/2022
	Project Number:	
	Description:	
	Report To:	Andy Freeman
		4901 Hawkins NE

Entire Report Reviewed By:

Jason Romer Project Manager

Albuquerque, NM 87109

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be Analytical National is performed per guidance provided in laboratory standard operating procedures 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

Released to Imaging: 02/23/2022 10:20:07 AM Hall Environmental Analysis Laboratory

PROJECT:

SDG: L1471295

DATE/TIME: 04/05/22 17:54 PAGE: 1 of 13

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Ср Тс Ss Cn Śr ʹQc Gl ΆI Sc

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

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2203674-002B CELL #1 VZ COMPOSITE L147129 Chemical Materials	95-01 Solid	5-01 Solids and		Collected by Collected date/time 03/09/22 10:40		Received date/time 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	
			Collected by	Collected date/time	Received da	te/time	
2203674-004B CELL #2 VZ COMPOSITE L14712 Chemical Materials	95-02 Soli	ds and		03/09/22 11:28	03/15/22 09	:30	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location	
			date/time	date/time			
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	
			Collected by	Collected date/time	Received da	te/time	
2203674-008B CELL #3 VZ COMPOSITE L14712 Chemical Materials	95-03 Soli	ds and		03/09/22 12:15	03/15/22 09	:30	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location	
			date/time	date/time		alyst Location alyst Location VR Mt. Juliet, TN GT Mt. Juliet, TN ived date/time i/22 09:30 alyst Location VR Mt. Juliet, TN GT Mt. Juliet, TN GT Mt. Juliet, TN GT Mt. Juliet, TN ived date/time i/22 09:30 alyst Location MR Mt. Juliet, TN GT Mt. Juliet, TN alyst Location MR Mt. Juliet, TN ived date/time 5/22 09:30 alyst Location MR Mt. Juliet, TN MR Mt. Juliet, TN	
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	
			Collected by	Collected date/time	Received da	te/time	
2203674-010B CELL #4 VZ COMPOSITE L147129 Chemical Materials	95-04 Solic	ls and		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	

WG1828447

1

03/18/22 13:00

03/22/22 13:36

RGT

Mt. Juliet, TN

Radiochemistry by Method SM7500Ra B M

CASE NARRATIVE

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



DATE/TIME: 04/05/22 17:54

PAGE: 4 of 13

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SAMPLE RESULTS - 01

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Radiochemistry by Method 9320

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

	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch		Ср
Analyte	pCi/g		+/-	pCi/g	date / time		2	
RADIUM-228	0.462		0.198	0.362	03/30/2022 14:50	WG1833152		Тс
(T) Barium	98.7			62.0-143	03/30/2022 14:50	WG1833152	L	
(T) Yttrium	100			79.0-136	03/30/2022 14:50	WG1833152	3	Ss

Radiochemistry by Method SM7500Ra B M

							1 (1
	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch	
Analyte	pCi/g		+ / -	pCi/g	date / time		5
RADIUM-226	0.416		0.139	0.0628	03/22/2022 13:36	WG1828447	ँSr
(T) Barium-133	91.7			30.0-110	03/22/2022 13:36	WG1828447	

Receive 714450 040DC ELL/22/2922 4024 P.305 PM

SAMPLE RESULTS - 02

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Radiochemistry by Method 9320

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

	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch		Ср
Analyte	pCi/g		+/-	pCi/g	date / time			2
RADIUM-228	1.05		0.194	0.331	03/30/2022 14:50	WG1833152		Tc
(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		³ Ss

Radiochemistry by Method SM7500Ra B M

							1 (r
	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch	
Analyte	pCi/g		+/-	pCi/g	date / time		5
RADIUM-226	0.346		0.123	0.0684	03/22/2022 13:36	WG1828447	ँSr
(T) Barium-133	91.2			30.0-110	03/22/2022 13:36	WG1828447	

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SAMPLE RESULTS - 03

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Radiochemistry by Method 9320

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

Rediochemioly by method 5020								
	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch		Ср
Analyte	pCi/g		+/-	pCi/g	date / time			2
RADIUM-228	1.05		0.242	0.422	03/30/2022 14:50	WG1833152		Tc
(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		³ Ss

Radiochemistry by Method SM7500Ra B M

Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch	
pCi/g		+/-	pCi/g	date / time		5
0.504		0.138	0.0425	03/22/2022 13:36	WG1828447	Ĩ
94.4			30.0-110	03/22/2022 13:36	WG1828447	
	Result pCi/g 0.504 94.4	Result Qualifier pCi/g 0.504 94.4	Result Qualifier Uncertainty pCi/g + / - 0.504 0.138 94.4 -	Result Qualifier Uncertainty MDA pCi/g + / - pCi/g 0.504 0.138 0.0425 94.4 30.0-110	Result Qualifier Uncertainty MDA Analysis Date pCi/g + / - pCi/g date / time 0.504 0.138 0.0425 03/22/2022 13:36 94.4 30.0-110 03/22/2022 13:36	Result Qualifier Uncertainty MDA Analysis Date Batch pCi/g + / - pCi/g date / time 0.504 0.138 0.0425 03/22/2022 13:36 WG1828447 94.4 30.0-110 03/22/2022 13:36 WG1828447

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SAMPLE RESULTS - 04

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Radiochemistry by Method 9320

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

	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch		Ср					
Analyte	pCi/g		+/-	pCi/g	date / time			2					
RADIUM-228	0.464		0.199	0.371	03/30/2022 11:35	WG1833152		Tc					
(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		³ Ss					

Radiochemistry by Method SM7500Ra B M

Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch	
pCi/g		+ / -	pCi/g	date / time		5
0.478		0.141	0.0528	03/22/2022 13:36	WG1828447	¥
94.5			30.0-110	03/22/2022 13:36	WG1828447	
	Result pCi/g 0.478 <i>9</i> 4.5	ResultQualifierpCi/g0.47894.5	Result Qualifier Uncertainty pCi/g + / - 0.478 0.141 94.5 -	Result Qualifier Uncertainty MDA pCi/g + / - pCi/g 0.478 0.141 0.0528 94.5 30.0-110	Result Qualifier Uncertainty MDA Analysis Date pCi/g + / - pCi/g date / time 0.478 0.141 0.0528 03/22/2022 13:36 94.5 30.0-110 03/22/2022 13:36	Result Qualifier Uncertainty MDA Analysis Date Batch pCi/g + / - pCi/g date / time 0.478 0.141 0.0528 03/22/2022 13:36 WG1828447 94.5 30.0-110 03/22/2022 13:36 WG1828447

Radiochemistry by Method 9320

QUALITY CONTROL SUMMARY

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Method Blank (MB)

(MB) R3777799-1 03/30/	MB) R3777799-1 03/30/22 14:50										
	MB Result	MB Qualifier	MB Uncer	tainty MB MDA							
Analyte	pCi/g		+ / -	pCi/g							
Radium-228	0.312	J	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												
	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
Analyte	pCi/g	+ / -	pCi/g	pCi/g	+/-	pCi/g		%			%	
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												
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier							
Analyte	pCi/g	pCi/g	%	%								
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 03/30/2	DS) L1470002-01 03/30/22 14:50 • (MS) R3777799-3 03/30/22 14:50													
	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier							
Analyte	pCi/g	pCi/g	pCi/g	%		%								
Radium-228	4.98	-0.0338	6.02	121	1	70.0-130								
(T) Barium		107		107										
(T) Yttrium		96.8		95.8										

 ² Tc
³ Ss
⁴ Cn
 ⁵Sr
 ⁶ Qc
⁷ Gl
⁸ Al

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Radiochemistry by Method SM7500Ra B M

QUALITY CONTROL SUMMARY

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Method Blank (MB)

metrica Blarik (i	(12)				1'Cr
(MB) R3773135-1 03/2	2/22 13:36				
	MB Result	MB Qualifier	MB Uncertai	nty MB MDA	2
Analyte	pCi/g		+ / -	pCi/g	Tc
Radium-226	0.0484	<u>J</u>	0.0591	0.0811	
(T) Barium-133	99.4		99.4		³ Ss
					100

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

(OS) L1472011-03 03/22/2	OS) L1472011-03 03/22/22 13:36 • (DUP) R3773135-5 03/22/22 13:36												
	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	
Analyte	pCi/g	+/-	pCi/g	pCi/g	+/-	pCi/g		%			%		
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	3/22/22 13:36				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	pCi/g	pCi/g	%	%	
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 03/22/2	JS) L1464973-01 03/22/22 13:36 • (MS) R3773135-3 03/22/22 13:36 • (MSD) R3773135-4 03/22/22 13:36													
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	MS RER	RPD Limits	
Analyte	pCi/g	pCi/g	pCi/g	pCi/g	%	%		%			%		%	
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								

DATE/TIME: 04/05/22 17:54

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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.

SDG: L1471295

Received by OCD: 11/22/2022 4:24:31 PACCREDITATIONS & LOCATIONS

Page	65	of	<u>162</u>
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Pace Analytical Nat	ional 12065 Lebanon Rd Mo	ount 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
lowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky ¹⁶	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ¹⁴	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.

SDG: L1471295

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HALL ENVIRONMENTAL ANALYSIS

ABORATORY

OF: PAGE: CHAIN OF CUSTODY RECORD

Page 66 of 162 Hall Environmental Analysis Laboratory

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

SUB CC	NTRATOR: Pace	COMPANY: PAC	E TN		PHONE:		(800) 767-5859 FAX: (615) 758-5	5859
ADDRE	ss: 12065	Lebanon Rd			ACCOUNT #:		EMAIL:	
CITY, S	TATE, ZIP: Mt. Ju	ıliet, TN 37122						
						# CO	1	1171795
ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	NTAINERS	ANALYTICAL COMM	ENTS
1	2203674-002B	Cell #1 VZ Composite	40ZGU	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	40ZGU	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	40ZGU	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	40ZGU	Soil	3/9/2022 12:45:00 PM	2	Total Cyanide, Ra 226/228, Total Phenolics by 9066	-04
	1						B160	l l

Sample Receipt Checklist COC Seal Present/Intact: If Applicable N VOA Zero Headspace: Y N COC Signed/Accurate: Bottles arrive intact: N Pres.Correct/Check: Y N Correct bottles used: Sufficient volume sent: RAD Screen <0.5 mR/hr: 1.7+0= 1.7 Ν

SPECIAL INSTRUCTIONS / COMMENTS:

CM+=8 TB=0

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:	Date: 3/11/2022	Time: 12:05 PM	Received 19. Lertson	3/15/21	Tupe 30	REPORT TRANSMITTAL DESIRED:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Temp of semples C Attempt to Cool ?
TAT: Star	idard 🛃	RUSH	Next BD 2nd BD	3rd BE		Temp of sampes
						Comments:

Released to Imaging: 12/23/2022 10:20:07 AM

Client: Project:	Animas Enviro BMG Landfar	nmental n VZ Soi	Serv il Sa	vices imples							
Sample ID: MB-66	5 62 S	ampType:	mb	lk	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID: PBS		Batch ID:	665	62	RunNo: 86923						
Prep Date: 4/1/20	022 Anal	ysis Date:	4/1	1/2022	S	SeqNo: 30	072115	Units: mg/K	g		
Analyte	Res	sult PO	λ	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-6	5 562 S	ampType:	lcs		Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID: LCSS		Batch ID:	665	62	F	RunNo: 86	6923				
Prep Date: 4/1/20	022 Anal	ysis Date:	4/1	1/2022	S	SeqNo: 30	072116	Units: mg/K	g		
Analyte	Res	sult PO	QL	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.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix 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

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07-Apr-22

Client: Project:	Animas E BMG Lai	Environmen ndfarm VZ	ntal Ser Z Soil Sa	vices amples							
Sample ID:	MB-66247	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	6020A: Meta	ls		
Client ID:	PBS	Batch	n ID: 66	247	F	RunNo: 8	6751				
Prep Date:	3/17/2022	Analysis D	ate: 3/	25/2022	S	SeqNo: 3	063428	Units: mg/ł	٢g		
Analyte Arsenic Selenium		Result ND ND	PQL 0.20 0.20	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID:	MSLCSLL-66247	SampT	ype: LC	SLL	Tes	tCode: El	PA Method	6020A: Meta	ls		
Client ID:	BatchQC	Batch	n ID: 66	247	F	RunNo: 8	6751				
Prep Date:	3/17/2022	Analysis D	ate: 3/	25/2022	S	SeqNo: 3	063429	Units: mg/ł	٢g		
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	SampT	ype: LC	s	Tes	tCode: El	PA Method	6020A: Meta	ls		
Client ID:	LCSS	Batch	n ID: 66	247	F	RunNo: 8	6751				
Prep Date:	3/17/2022	Analysis D	ate: 3/	25/2022	S	SeqNo: 3	063430	Units: mg/k	٢g		
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:

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- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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07-Apr-22

Client:AProject:E	nimas Environme MG Landfarm VZ	ntal Ser Z Soil Sa	vices amples							
Sample ID: LCS-6617	'9 SampT	Гуре: LC	s	Tes	tCode: EF	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: LCSS	Batch	h ID: 66	179	RunNo: 86505						
Prep Date: 3/15/202	2 Analysis D	Date: 3/	16/2022	S	SeqNo: 3	053943	Units: mg/k	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DR	.0) 47	10	50.00	0	94.4	68.9	135			
Surr: DNOP	4.7		5.000		93.7	51.1	141			
Sample ID: MB-6617	9 SampT	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batch	h ID: 66	179	F	RunNo: 8	6505				
Prep Date: 3/15/202	2 Analysis D	Date: 3/	16/2022	S	SeqNo: 3	053945	Units: mg/#	íg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DR	.0) ND	10								
Motor Oil Range Organics (MRO) ND	50								
Surr: DNOP	9.0		10.00		90.4	51.1	141			

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- P Sample pH Not In Range
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07-Apr-22

Client: Anima Project: BMG I	s Environme Landfarm VZ	ntal Ser Z Soil Sa	vices amples							
Sample ID: Ics-66128	SampT	Гуре: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	F	RunNo: 86450								
Prep Date: 3/11/2022	Analysis E	Date: 3/	14/2022	S	SeqNo: 3	050439	Units: mg/k	٤g		
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	SampT	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batc	h ID: 66	128	F	RunNo: 8	6450				
Prep Date: 3/11/2022	Analysis E	Date: 3/	14/2022	5	SeqNo: 3	050440	Units: mg/k	٢g		
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:

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- ND Not Detected at the Reporting Limit
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- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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07-Apr-22

WO#:

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Client: Anim Project: BMG	as Environme Landfarm V2	ntal Ser Z Soil Sa	vices amples							
Sample ID: Ics-66128	Samp	Гуре: LC	s	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	128	F	RunNo: 8	6450						
Prep Date: 3/11/2022	Analysis [Date: 3/	14/2022	S	SeqNo: 3	050472	Units: mg/H	٢g		
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	Samp	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batc	h ID: 66	128	F	RunNo: 8	6450				
Prep Date: 3/11/2022	Analysis [Date: 3/	14/2022	5	SeqNo: 3	050473	Units: mg/ #	٢g		
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:

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- PQL Practical Quanitative Limit
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- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
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07-Apr-22

Client:	Animas	Environmen	ntal Ser	vices							
Project:	BMG L	andfarm VZ	کی Soil Sa	amples							
Sample ID:	LCS-66316	SampT	ype: LC	S	Test	tCode: EF	PA Method	7471B: Merc	ury		
Client ID:	LCSS	Batch	ו ID: 66 :	316	R	RunNo: 86	6649				
Prep Date:	3/22/2022	Analysis D)ate: 3/	22/2022	S	SeqNo: 30	058936	Units: mg/K	g		
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	SampT	ype: ME	BLK	Test	tCode: EF	PA Method	7471B: Merc	ury		
Client ID:	PBS	Batch	ו ID: 66 :	316	R	RunNo: 86	6649				
Prep Date:	3/22/2022	Analysis D)ate: 3/	22/2022	S	SeqNo: 30	058946	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury		ND	0.033								
Sample ID:	LCSLL-66316	SampT	ype: LC	SLL	Tes	tCode: EF	PA Method	7471B: Merc	ury		
Client ID:	BatchQC	Batch	ו ID: 66 :	316	R	RunNo: 86	6649				
Prep Date:	3/22/2022	Analysis D	oate: 3/	22/2022	S	SeqNo: 30	058947	Units: mg/K	g		
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.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix 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

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07-Apr-22
Client:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Animas Environmental Services

Project:	BMG	Landfarm VZ	Soil Sa	amples							
Sample ID:	MB-66247	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	6010B: Soil I	Metals		
Client ID:	PBS	Batch	ID: 66	247	F	RunNo: 86584					
Prep Date:	3/17/2022	Analysis D	ate: 3/	18/2022	5	SeqNo: 3	056055	Units: mg/K	íg		
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: 66	247	F	RunNo: 8	6584				
Prep Date:	3/17/2022	Analysis D	ate: 3/	18/2022	S	SeqNo: 3	056057	Units: mg/K	(g		
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	SampT	ype: ME	BLK	Tes	TestCode: EPA Method 6010B: Soil Metals					
Client ID:	PBS	Batch	ID: 66	247	F	RunNo: 8	6632				
Prep Date:	3/17/2022	Analysis D	ate: 3/	21/2022	S	SeqNo: 3	058381	Units: mg/K	íg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
o		ND	05								

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

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2203674

07-Apr-22

WO#:

Client: Project:	Animas Environm BMG Landfarm V	nental Ser /Z Soil Sa	vices amples							
Sample ID: LCS-6	6247 Sam	pType: LC	S	Test	Code: EF	PA Method	6010B: Soil I	Netals		
Client ID: LCSS	Ba	tch ID: 66	247	R	unNo: 86	632				
Prep Date: 3/17/	2022 Analysis	a Date: 3/	21/2022	S	eqNo: 30)58384	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	2200	25	2500	0	87.9	80	120			

Qualifiers:

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- PQL Practical Quanitative 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
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2203674

07-Apr-22

WO#:

	Page	75	0	f 1	62
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	CONMENTAL YSIS RATORY	Hall Environmer TEL: 505-345-3 Website: client.	ntal Analysis Labor 4901 Hawkir Albuquerque, NM 8 975 FAX: 505-345- s.hallenvironmental	atory 18 NE 7109 Sar 4107 1.com	Sample Log-In Check Lis			
Client Name:	Animas Environmental Services	Work Order Num	ber: 2203674	-	RcptNo	: 1		
Received By:	Desiree Dominguez	3/11/2022 8:00:00 /	AM	TP2				
Completed By:	Sean Livingston	3/11/2022 9:52:16	AM	5. /	in star			
Reviewed By:	TM	3/11/22	$\langle \rangle$	2				
Chain of Cus	<u>tody</u>							
1. Is Chain of Cu	ustody complete?		Yes 🔽	No 🗌	Not Present			
2. How was the	sample delivered?		Courier					
Log In 3. Was an attem	pt made to cool the sample	s?	Yes 🔽	No 🗌	NA 🗌			
4. Were all samp	les received at a temperatu	re of >0° C to 6.0°C	Yes	No 🔽				
5. Sample(s) in p	proper container(s)?		Yes Ves	en. No 🗌				
6. Sufficient sam	ple volume for indicated tes	t(s)?	Yes 🔽	No 🗌				
7. Are samples (e	except VOA and ONG) prop	erly preserved?	Yes 🔽	No 🗌				
8. Was preservat	ive added to bottles?		Yes	No 🔽	NA 🗌			
9. Received at lea	ast 1 vial with headspace <	1/4" for AQ VOA?	Yes	No 🗌	NA 🔽			
10. Were any sam	ple containers received bro	ken?	Yes 🗌	No 🔽	# of preserved	/		
11. Does paperwo (Note discrepa	rk match bottle labels? ncies on chain of custody)		Yes 🗹	No 🗌	for pH:	>12 unless no		
12. Are matrices c	orrectly identified on Chain	of Custody?	Yes 🗸	No 🗌	Adjusted?			
13. Is it clear what	analyses were requested?		Yes 🗹	No 🗌				
14. Were all holdin (If no, notify cu	g times able to be met? stomer for authorization.)		Yes 🔽	No 🗌	Checked by	nc 3/111		
Special Handli	ng (if applicable)							
15. Was client not	ified of all discrepancies wi	th this order?	Yes 🗌	No 🗌	NA 🔽			
Person	Notified:	Date:						
By Who	m:	Via:	🗌 eMail 🗌 P	hone 🗌 Fax	In Person			
Regardii Client In	ng: structions:							
16 Additional ren	harke:					-		
	iunto.							
Cooler No.	Temp ^o C Condition	Seal Intact Seal No	Soal Data	Ciana d D				
1		Seal mact Seal NO	Seal Date	Signed By				

Page 1 of 1

Released to																				Weressen of
	hain	of-Cu	istody Record	Turn-Around Tir	me:		1													
Client:	A	Animas Ei	nvironmental Services	Standard	□ Rush					_				EN						
12/2.				Project Name:	a de sector		1					w bo		irop.	13		1D(UR
Mailing	Address	5:	P.O. Box 8	BMG L	andfarm - VZ	soil samples		400	111	امرياد		w.na		/IIOIII	nent	al.co	III M 07	100		044
22 1	Far	minaton.	NM 87499-0008	Project #:			1	490		awk	ins i		- AI	ouqu E	erqu		1407	109		4.27
Phone	#·	720-537	-6650		AES 0406	05	Mes II	Ie	el. 50		45-3	975 A	nalı	Fax	505	-345-	4107	/ 		: : • • • •
email o	or Fax#:	aledgerwoo	od@animasenvironmental.com	Project Manage	r:				0	71			menž		Neq	uest				
	Package:			i roject Manage	n. Angela Ledge	rwood		15M/	300.	0/74	4.0									
🛛 Sta	ndard		□ Level 4 (Full Validation)	i i	Elizabeth Mc	Nally		A80	por	l 601)/E90	0	990	0121						
Accred	itation:	🗆 Az Co	mpliance	Sampler:	CL/JO		21B	ria EF	Met	ethoc	903.(450)6 P)6 p						
	AC	□ Other		On Ice:	IX Yes	□ No	d 80	RO	via	a Me	via E	SM	etho	ethc						
	O(Type)			# of Coolers:	1		etho	N/O	ions	als vi	228	poq	a M	a						
				Cooler Temp(inclu	uding CF): -0.5	5-0.0=-0.5°c	Me	O/DF	3 An	Met	k Ra-	Met	s vi	e <i< td=""><td></td><td></td><td></td><td></td><td></td><td></td></i<>						
Date	Time	Matrix	Sample Name	Container Type and #	Preservativ e Type	HEAL No.	TEX vi	PH GR	ist A&I	ist A&B	a-226 8	H via	henol	Syanid						
2-9-22	10:03	Soil	Cell #1 VZ S-1	1 - 4 oz jar	Cool	001	X	X	-		œ	0.	ш.				+			++
	10:40	Soil	Cell #1 VZ COMPOSITE	3 - 4 oz jars	Cool	002			х	х	Х	Х	Х	Х					-	
	10:55	Soil	Cell #2 VZ S-1	1 - 4 oz jar	Cool	003	Х	Х												
	11:28	Soil	Cell #2 VZ COMPOSITE	3 - 4 oz jars	Cool	004			Х	Х	Х	Х	Х	Х			\square			
	11:50	Soil	Cell #3 VZ S-2	1 - 4 oz jar	Cool	005	X	Х	_								\rightarrow	_		11
	12:01	Soil	Cell #3 VZ S-3	1 - 4 oz jar	Cool	206	X	X	_	_							\rightarrow	_	_	++
-/	12:12	Soil		1 - 4 oz jar	Cool	007	X	X	~	v	V	V	v	V	_	<u> </u>	+	_		++
	12.15	Soil		3 - 4 oz jars	Cool	208	v	v	×	×	×	X	<u>×</u>	X	_		+	_		++
1	12:45	Soil	Cell #4 VZ COMPOSITE	3 - 4 oz jars	Cool			^	x	x	х	x	x	x	_		+		+	++
Date:	Time: 1220	Relinquishe	ed by:	Received by:	lia: Wag .	Date Time 3/10/12 /220	Rer Ple	narks	dir	ect	-bil	l th	is p	roje	ect t	to Bi	MG.	L		
Date: 3/10/22	1152		stru Wallen	Received by:	lia:	Date' Time 111/22 8:00	See	atta	chec	list Fr	for ∂Ze	List .	А&В	ana	lytes ////²					

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 //
· (2)	Barium (Ba)	0.1 mg/1
• (3)	Cadmium (Cd)	1.0 mg/l
(4)	Chromium (Cr)	0.01 mg/1
(5)	Cyanide (CN)	0.05 mg/f
(6)	Fluoride (F)	0.2 mg/l
(0)	Lead (Ph)	1.6 mg/l
(8)	Total Mercury (Hg)	0.05 mg/l
(9)	Nitrate (NO ₂ as N)	0.002 mg/l
· (10)	Selenium (Se)	10.0 mg/l
- (11)	Silver (Ag)	0.05 mg/l
< (12)	Uranium (II)	0.05 mg/l
(12)	Radioactivity: Combined Radium 226 & Radium 228	0.03 mg/l
(14)	Benzene	
(15)	Polychlorinated hiphenyls (PCB's)	0.01 mg/l
(16)	Toluene.	0.001 mg/l
(17)	Carbon Tetrachloride	0.75 mg/l
(18)	1.2-dichloroethane (EDC)	0.01 mg/1
(19)	1.1-dichloroethylene (1.1-DCF)	0.01 mg/l
(20)	1.1.2.2-tetrachloroethylene (PCE)	0.005 mg/l
(21)	1.1.2-trichloroethylene (TCE)	0.02 mg/l
(22)	ethylbenzene	0.1 mg/1
(23)	total xylenes	0.75 mg/l
(24)	methylene chloride	0.62 mg/1
(25)	chloroform	0.1 mg/1
(26)	1.1-dichloroethane	0.1 mg/1
(27)	ethylene dibromide (FDB)	
(28)	1,1,1-trichloroethane	0.0001 mg/l
(29)	1,1,2-trichloroethane	0.06 mg/l
(30)	1,1.2,2-tetrachloroethane	0.01 mg/l
(31)	vinyl chloride	0.01 mg/l

20.6.2 NMAC

Released to Imaging: 12/23/2022 10:20:07 AM

12

BMG Landfarm Soil Sampling - Treatment Zone (TZ)

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

Date: 0-15-2022	Sampling Technician: <u>G. Jo</u>	

۲ <u> </u>		CELL #1		
Sample ID:	TZ-1A	TZ-1B	TZ-1C	TZ-1D
GPS: (4 locations)				
Time of sample into bag:		VID SAMPLES		
Sample depth (ft):	F.	NO SIMPLES		
Soil characteristics:				
(odor, color, texture)				
Composite Sample Time:				and the second sec

	CELL #2									
Sample ID:	TZ-2A	TZ-2B	TZ-2C	TZ-2D						
GPS: (4 locations)	36 23.403, -166 51.993	36 23.374, -106 51.954	36 23.398, -106 51. 932	36 23.411, -106 51.984						
Time of sample into bag:	11:04	1(:17	11:37	11:46						
Sample depth (ft):	0.25	0.25	Dirts	0.25						
Soil characteristics:	Drys Brown, Drnd, FL, No Edw	The Brown, One, FG, Shad Com	Brown, Some, Ong. FG, No of	organics, Pire Needles, Dry						
(odor, color, texture)	No Stains	NI BOAN NO STANSO	No STRING	\$6, sound, No Edward No Starms						
Composite Sample Time:		11:51								

		CELL #3	•	
Sample ID:	TZ-3A	TZ-3B	TZ-3C	TZ-3D
GPS: (4 locations)	3623,354 -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:	1202	12:20	1234	1251
Sample depth (ft):	0.25	0.25	0.25	0.25
Soil characteristics:	Brown, Day	FE Sand 1/Red Hard Sand	Brow, Dry, FG, Sound, N. Am	any Born thand HG No Odr
(odor, color, texture)		No Stains No odors	No stains.	No Stains
Composite Sample Time:		1234		

·		CELL #4		
Sample ID:	TZ-4A	TZ-4B	TZ-4C	TZ-4D
GPS: (4 locations)				
Time of sample into bag:		NON SAMPLES		
Sample depth (ft):	X	NO STITUCS		
Soil characteristics:				
(odor, color, texture)				
Composite Sample Time:				
Additional Notes:				
3				

BMG Landfarm Soil Sampling - Vadose Zone (VZ) Date: 0-15-2022 Sampling Technician: 0/30

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3		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 23.3324, -106 51.947	36 23 Jule, -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'	4.6'	5.0'
Auger/Sample depth (ft)	4.2'	4.5'	4,5	S. 4
Soil characteristics:	Bronn. Bry, Clay Sand, No Olar	Brown, worst, charge Sand, No Olar	Darle Bern, Marth, any Sand, No 8 dr	Brown, Day, White Specks, No odor
(odor, color, texture)	NS Stains	No Stains.	Nº Stans	No Stains.
1		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 23.374106 51.954	36 23.398, -106 51.932	36 23.411, -106. 51.984
Sample Time:	(4.2' 11:11	11:24	11:39	11:56
Shovel depth (ft)*:	74.6'	4.0'	4.3'	4.5'
Auger/Sample depth (ft)	7	4.5'	4.1'	4.9'
Soil characteristics:	Weathened 55, FE-MG, O M, NO	Sima, Tan-Brawh, Morst, No Que	weathered SS; Tom, FG-MB, as ador	Weathered 55, Tan, Home, wron
(odor, color, texture)	Odor, No Stair, Tan	No Stains, FL-MC	No String Moist	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 51.87
Sample Time:	1212	1227	1245	1301
Shovel depth (ft)*:	4.4	4.0	4.3	4.2
Auger/Sample depth (ft)	Y.9	4.4	4.7'	4.6
Soil characteristics:	Chicolate Brown, Dry, Clay, Hard	Hard Clay, Brown, Mon3t, No	HARD, Brown, Chy, Dry, No body	Sand, Ton, Moist, NO alors No
(odor, color, texture)	No Staria, No Ozors, Salt lima	Other, No Strins	No stains	Stylins FG-MC
		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, -10651.777	36 23.339, -606 51.765	36 23.343 -116. 51.7.39
Sample Time:	1320	/336	1351	1402
Shovel depth (ft)*:	4.6	4.0'	4,5'	4.5'
Auger/Sample depth (ft)	4.4	4.4'	4.9'	4.9'
Soil characteristics:	Brown, Moist, Sand Clay, FG, No Der	Brown, Hard, Clay Sund, F6, No O.t.	Brown, Snud, Drg, Eb, No odr	GARWA, Sand, Hard, FL, ND Oder
(odor, color, texture)	No Stains	No Star ins	No Starino	NO Stains.
* - Backhoe used to shovel	l.			
Additional Notes:				
)				





Released to Imaging: 12/23/2022 10:20:07 AM

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The state



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,

ander

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services **Project:** BMG Landfarm TZ Soil Samples 2206A08-001 Lab ID: Matrix: SOIL

Client Sample ID: Cell #2 TZ CS-1 Collection Date: 6/15/2022 11:51:00 AM 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 ORC	SANICS				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	ma/Ka	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.

* Value exceeds Maximum Contaminant Level. **Qualifiers:**

D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

Analyte detected in the associated Method Blank в

Е Estimated value

J Analyte detected below quantitation limits Р

Sample pH Not In Range

RL Reporting Limit Page 1 of 23

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

 CLIENT: Animas Environmental Services

 Project: BMG Landfarm TZ Soil Samples

 Lab ID: 2206A08-001
 Matrix: SOIL

Client Sample ID: Cell #2 TZ CS-1 Collection Date: 6/15/2022 11:51:00 AM 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.
 D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix 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 2 of 23

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services **Project:** BMG Landfarm TZ Soil Samples 2206A08-001 Lab ID: Matrix: SOIL Client Sample ID: Cell #2 TZ CS-1 Collection Date: 6/15/2022 11:51:00 AM Received Date: 6/18/2022 9:50:00 AM

Analyses	Result	RL Qu	al 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

н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

Analyte detected in the associated Method Blank в

Е Estimated value

J Analyte detected below quantitation limits Р

Sample pH Not In Range

RL Reporting Limit Page 3 of 23

CLIENT: Animas Environmental Services

Project: BMG Landfarm TZ Soil Samples

Analytical Report
Lab Order 2206A08

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: Cell #2 TZ CS-1 Collection Date: 6/15/2022 11:51:00 AM Received Date: 6/18/2022 9:50:00 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		
рН	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.
 D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix 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

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Date Reported: 7/20/2022

Analyst: TOM

6/28/2022 9:20:08 PM

6/28/2022 7:32:36 PM

6/28/2022 7:32:36 PM

6/28/2022 7:32:36 PM

6/24/2022 2:32:07 AM

6/24/2022 2:32:07 AM

Analyst: ED

Analyst: NSB

Analyst: CAS

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services Client Sample ID: Cell #3 TZ CS-1 Collection Date: 6/15/2022 12:54:00 PM **Project:** BMG Landfarm TZ Soil Samples Lab ID: 2206A08-002 Matrix: SOIL Received Date: 6/18/2022 9:50:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8082A: PCB'S Aroclor 1016 ND 0.019 mg/Kg 1 Aroclor 1221 ND 0.019 mg/Kg 1 mg/Kg Aroclor 1232 ND 0.019 1 Aroclor 1242 ND 0.019 mg/Kg 1 ND Aroclor 1248 0.019 mg/Kg 1 Aroclor 1254 ND 0.019 mg/Kg 1 Aroclor 1260 ND 0.019 mg/Kg 1 Surr: Decachlorobiphenyl 72.4 47.2-115 %Rec 1 Surr: Tetrachloro-m-xylene 91.2 15-110 %Rec 1 EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO) 210 15 mg/Kg 1 Motor Oil Range Organics (MRO) mg/Kg 470 50 1 Surr: DNOP 105 51.1-141 %Rec 1 **EPA METHOD 8015D: GASOLINE RANGE** Gasoline Range Organics (GRO) ND 4.6 mg/Kg 1 Surr: BFB 98.2 37.7-212 %Rec 1 **EPA METHOD 300.0: ANIONS** Fluoride 2.8 1.5 mg/Kg 5

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.

Value exceeds Maximum Contaminant Level **Qualifiers:**

D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference в Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

Sample pH Not In Range Р

RL Reporting Limit Page 5 of 23

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental ServicesProject:BMG Landfarm TZ Soil SamplesLab ID:2206A08-002Matrix: SOILAnalysesResult

Client Sample ID: Cell #3 TZ CS-1 Collection Date: 6/15/2022 12:54:00 PM 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 Quanitative 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

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Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT:Animas Environmental ServicesProject:BMG Landfarm TZ Soil SamplesLab ID:2206A08-002Matrix: SOIL

Client Sample ID: Cell #3 TZ CS-1 Collection Date: 6/15/2022 12:54:00 PM Received Date: 6/18/2022 9:50:00 AM

Analyses	Result	RL Qu	al 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 Quanitative 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

Sample pH Not In Range

RL Reporting Limit

Р

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CLIENT: Animas Environmental Services

Project: BMG Landfarm TZ Soil Samples

Analytical Report
Lab Order 2206A08

Date Reported: 7/20/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: Cell #3 TZ CS-1 Collection Date: 6/15/2022 12:54:00 PM Received Date: 6/18/2022 9:50:00 AM

Lab ID: 2206A08-002	Matrix: SOIL	Received Date: 6/18/2022 9:50:00 AM					
Analyses	Result	RL Qu	al 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		
рН	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.
 D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix 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

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Received by OCD: 11/22/2022 4:24:31 PM



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Hall Environmental Analysis Laboratory

July 01, 2022

Sample Delivery Group:

Samples Received:

Project Number:

Description:

Report To:

06/22/2022

L1507380

Andy Freeman 4901 Hawkins NE Albuquerque, NM 87109

Ср Тс Ss Cn Śr ʹQc Gl A Sc

Entire Report Reviewed By: John V Hautins

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

Released to Imaging: 22/23/2022 10:20:07 AM Hall Environmental Analysis Laboratory

PROJECT:

SDG: L1507380

DATE/TIME: 07/01/22 09:18 PAGE: 1 of 11

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



Released to Imaging: 23/2022 10:20:07 AM Hall Environmental Analysis Laboratory PROJECT:

SDG: L1507380 DATE/TIME: 07/01/22 09:18

IME: 09:18 **PAGE:** 2 of 11

SAMPLE SUMMARY

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			Collected by	Collected date/time	Received da	te/time	
2206A08-001C CELL #2 TZ CS-1 L1507380-01 S	Solid			06/15/22 11:51	06/22/22 09	1	Ср
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location	
			date/time	date/time		2.	Тс
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 3	Ss
			Collected by	Collected date/time Received		te/time	
2206A08-002C CELL #3 TZ CS-1 L1507380-02	Solid			06/15/22 12:54	06/22/22 09):45	Cn
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location	
			date/time	date/time		5	Sr
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 6	

CASE NARRATIVE

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 V How Kins

John Hawkins Project Manager



SDG: L1507380 DATE/TIME: 07/01/22 09:18

PAGE: 4 of 11

SAMPLE RESULTS - 01

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Wet Chemistry by Method 9012B

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

Het offennou'y by method offizb							l' Co
	Result	Qualifier	RDL	Dilution	Analysis	Batch	Cp
Analyte	mg/kg		mg/kg		date / time		2
Cyanide	ND		0.250	1	06/28/2022 23:18	WG1883769	Tc
Wet Chemistry by I	Method 9066						³ Ss
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg		date / time		4 Cn
Total Phenol by 4AAP	ND		0.670	1	06/26/2022 22:05	WG1884598	CII



SAMPLE RESULTS - 02

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Collected date/time: 06/15/22 12:54 Wet Chemistry by Method 9012R

wet chemistry by i							1 Cn
	Result	Qualifier	RDL	Dilution	Analysis	Batch	Ср
Analyte	mg/kg		mg/kg		date / time		2
Cyanide	ND		0.250	1	06/28/2022 23:22	WG1883769	Tc
Wet Chemistry by I	Method 9066						³ Ss
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg		date / time		4 Cn
Total Phenol by 4AAP	ND		0.670	1	06/26/2022 22:07	WG1884598	

Received by 991/22/2022 4:24:31 PM

Wet Chemistry by Method 9012B

QUALITY CONTROL SUMMARY L1507380-01,02

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 Of/28/22 23:11 • (DUP) R3808628-5 06/28/22 23:12									
(00) 21000000 02 00,2	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)

L1507380-01 Original Sample (OS) • Duplicate (DUP)									
(OS) L1507380-01 06/28/2	2 23:18 • (DUP) R3808628-6	06/28/2	2 23:21					
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits	⁸ Al		
Analyte	mg/kg	mg/kg		%		%			
Cyanide	ND	ND	1	0.000		20	°Sc		

Laboratory Control Sample (LCS)

_CS) 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)

DS) 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)

JS) 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

Released	to Imaging???????????????????????????????????	1 <i>M</i>
	Hall Environmental Analysis Laboratory	

PROJECT:

SDG: L1507380

DATE/TIME: 07/01/22 09:18 PAGE: 7 of 11 Тс

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Wet Chemistry by Method 9066

QUALITY CONTROL SUMMARY L1507380-01,02

Page 97 of 162

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Method Blank (MB)

(MB) R3807690-1 06/26/22 22:04					
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	mg/kg		mg/kg	mg/kg	
Total Phenol by 4AAP	U		0.220	0.670	

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

(OS) L1507380-02 Of	1911al Sample 26/22 22:07 • (DU	≥ (OS) • Dι	1011Cate	(DUP) /22 22:08			4
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits	a la construcción de la construc
Analyte	mg/kg	mg/kg		%		%	
Total Phenol by 4AAP	ND	ND	1	26.4		20	6

Laboratory Control Sample (LCS)

(LCS) R3807690-2 06/26/22 22:04							
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier		
Analyte	mg/kg	mg/kg	%	%			
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												
	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	%	%		%			%	%
Total Phenol by 4AAP	16.7	ND	14.1	14.5	83.9	86.4	1	15.4-151			2.87	20

DATE/TIME: 07/01/22 09:18 PAGE: 8 of 11

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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

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

SDG: L1507380

Received by OCD: 11/22/2022 4:24:31 PACCREDITATIONS & LOCATIONS

1 uge >> 0j 102	Page	99	of	162
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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
lowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky ¹⁶	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ¹⁴	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.

SDG: L1507380

eived by <u>OCD:</u> 11/22/2022 4:24:31 PM ENVIRONMENTAL	CHAIN OF CUSTODY RECORD PAGE: 1 OF: 1 J119						Page 100 o Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com		
SUB CONTRATOR Pace TN COMPANY:	PACE TN	I		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	ANALYT	L/SO 7380 TICAL COMMENTS		
1 2206A08-001C Cell #2 TZ CS-1	80	DZGU	Soil	6/15/2022 11:51:00 AM	1 Cyanide, Ph	enols in Soil	701		
2 2206A08-002C Cell #3 TZ CS-1	80	DZGU	Soil	6/15/2022 12:54:00 PM	1 Cyanide, Ph	enols in Soil	L 02		

 Sample Receip
 Checklist

 COC Seal Present/Intact:
 Y
 N
 If Applicable

 COC Signed/Accurate:
 N
 VOA Zero Headspace:
 Y_N

 Bottles arrive intact:
 N
 Pres.Correct/Check:
 Y_N

 Correct bottles used:
 N
 Pres.Correct/Check:
 Y_N

 Sufficient volume sent:
 N
 N
 Pres.Correct/Check:
 Y_N

 RAD Screen <0.5 mR/hr:</td>
 N
 N
 N
 N

(120p! 2.1 === 2.1 FODX 5755 8093 3135

SPECIAL INSTRUCTIONS / COMMENTS:

Please include the LAB ID and	the CLIENT S	AMPLE ID on	all final reports. Please e-mail	results to lab@haller	nvironmental.com	m. Please return all coolers and blue ice. Thank you.
Relinquished By:	Date: 6/20/2022	Time: 10:07 AM	Received By	6/21/2	10941	REPORT TRANSMITTAL DESIRED:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	FOR LAB USE ONLY
TAT: Stan	dard 🕑	RUSH	Next BD 📄 2nd	BD 🗌 3rd BC		Temp of samples C Attempt to Cool ? Comments:



Pace Analytical Begic d 162

1638 Roseytown Road - Suites 2,3,4 Greensburg, PA 15601 (724)850-5600

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 Comptin

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

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Pace Analytical

OCD: 11/22/2022 4:24:31 PM

Pace Analytical 868163/210f 162 1638 Roseytown Road - Suites 2,3,4 Greensburg, PA 15601 (724)850-5600

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

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SAMPLE SUMMARY

Project: Pace Project No.:	2206A08 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

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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

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PROJECT NARRATIVE

 Project:
 2206A08

 Pace Project No.:
 30500351

Method:EPA 901.1Description:901.1 Gamma Spec INGROWTHClient:Hall EnvironmentalDate: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



ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2206A08 Pace Project No .: 30500351 Received: 06/23/22 09:10 Sample: 2206A08-001B/Cell #2 TZ Lab ID: 30500351001 Collected: 06/15/22 11:51 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 EPA 901.1 1.375 ± 0.337 (0.152) Radium-226 pCi/g 07/19/22 09:42 13982-63-3 Ra C:NA T:NA EPA 901.1 1.243 ± 0.425 (0.238) Radium-228 pCi/g 07/19/22 09:42 15262-20-1 C:NA T:NA 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) pCi/g 07/19/22 10:01 13982-63-3 Ra C:NA T:NA 1.167 ± 0.376 (0.321) EPA 901.1 Radium-228 pCi/g 07/19/22 10:01 15262-20-1 C:NA T:NA

REPORT OF LABORATORY ANALYSIS

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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 S	Spec Ingrowth		
			Laboratory:	Pace Analytical	Services - Greensbu	ırg	
Associated Lab Sar	mples: 30500351	001, 30500351	002				
METHOD BLANK:	2505305		Matrix: Solid				
Associated Lab Sar	mples: 30500351	001, 30500351	002				
Parar	neter	Act -	Lunc (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

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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 appropriatesized 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
ANALYSIS LABORATORY	CHAIN OF	CUSTODY	RECOR	RD PAGE:	1 OF: 1 1	Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com
SUB CONTRATOR: Pace-Greensburg	Pace Analyt	ical Services, I	Inc.	HONE:	(724) 850-5600	FAX: (724) 850-5601
ADDRESS: 1638 Roseytown Rd Ste 2,3,4			A	CCOUNT #:	· · · · · · · · · · · · · · · · · · ·	EMAIL:
CITY, STATE, ZIP: Greensburg, PA 15601						
ITEM SAMPLE CLIENT SAMPLE ID	BC	OTTLE YPE MATRIX	COLLI X D	ECTION ATE	# CONTAINERS	NALYTICAL COMMENTS
1 2206A08-001B Cell #2 TZ CS-1	80ZG	GU Soil	6/15/2022 1	1:51:00 AM	1 Rad 226/228 in Soil	
2 2206A08-002B Cell #3 TZ CS-1	8020	GU Soil	6/15/2022 1	2:54:00 PM	1 Rad 226/228 in Soil	
						WO#:30500351
						WO#:30500351
<u>SPECIAL INSTRUCTIONS / COMMENTS:</u> Please include the LAB ID and the CLIENT SAMPLE II) on all final reports. Pla	ease e-mail results to	o lab@hallen	vironmental	com. Please return all coole	WO#:30500351 IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
<u>SPECIAL INSTRUCTIONS / COMMENTS:</u> Please include the LAB ID and the CLIENT SAMPLE II) on all final reports. Pic	ease e-mail results to	o lab@hallen	wironmental.	.com. Please return all coole	WO#:30500351 IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
SPECIAL INSTRUCTIONS / COMMENTS: Please include the LAB ID and the CLIENT SAMPLE II Relinquished By: Date: 6/20/2022) on all final reports. Pla	ease e-mail results to	o lab@hallen	wironmental.	.com. Please return all coole	WO#: 30500351
SPECIAL INSTRUCTIONS / COMMENTS: Please include the LAB ID and the CLIENT SAMPLE II Relinquished By: Date: Time: 10:07 Relinquished By: Date: Time: 10:07	O on all final reports. Pla	ease e-mail results to	o lab@hallen Date:	vironmental. Timq10 Time:	com. Please return all coole	WO#:30500351
SPECIAL INSTRUCTIONS / COMMENTS: Please include the LAB ID and the CLIENT SAMPLE II Relinquished By: Date: Time: 10:07 Relinquished By: Date: Time: Relinquished By: Date: Time: Relinquished By: Date: Time:	D on all final reports. Pla AM Received By Received By: Received By:	ease e-mail results to	o lab@hallen D <mark>Ch2H2</mark> Date: Date:	Time:	com. Please return all coole	WO#:30500351

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Page 109 of 162

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	ł	-10	ell	Project #	
Client Name.					
		.		Drug Other	
Courier: \square Fed Ex \square OPS \square OSPS \square Client	-1	Comm	iercial		
Tracking #: <u>3349 4048 76</u>	210	-			
Custody Seal on Cooler/Box Present: U yes		ĩo	Seals	s intact: ∐ yes ∐ no	
Thermometer Used	Туре	of Ice:	: Wet	Blue None	
Cooler Temperature Observed Temp		C -	Corre	ection Factor	· · ·
Temp should be above freezing to 6°C				pH paper Lot# Date and Initials of person examining	
Comments:	Yes	No	N/A	10 D4611 contents: pS 6 123 22	
Chain of Custody Present:	17	-		1 P5 6/23/22	
Chain of Custody Filled Out:	//			2	
Chain of Custody Palinguished:		-		3	
Sampler Name & Signature on COC:	1			4	
Sample Table match COC					
Jacobides data/time/ID Matrix:	\leq	I,	<u>t</u>		
Samples Arrived within Hold Times	7-7				
Samples Anived within Hold Time:				0. 7	
Short Hold Time Analysis (2nr remaining):</td <td></td> <td>-</td> <td></td> <td></td> <td></td>		-			
Rush Turn Around Time Requested:					9
				9. 40	
Correct Containers Used:					IRC
-Pace Containers Used:	-				
Containers Intact:	-			П. б	
					토
Hex of Aqueous sample field filtered			-		알끔
Organic Samples checked for dechlorination:			12		
Filtered volume received for Dissolved tests All containers have been checked for preservation.					E 5
exceptions: VOA, coliform, TOC, O&G, Phenolics,	Radon	l ,			
All containers meet method preservation				Initial when OS Date/time of	
requirements.	Ĺ			completed C 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: P 5 Date: b/23/22 Survey Meter 1563	
Client Notification/ Resolution:	·		t		
Person Contacted:	~		Date/	Time:Contacted By:	
Comments/ Resolution:					
			<u>.</u>		
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section of the Workorder Edit Screen.

Released	P ace,	Analy	rtical®					P	ace	Gree	ensb	urg	Lab	-Sai	nple	Co	ntaiı	ner (Cour	nt									
							·												Profi	le Nu	mber	*****	74	S	:				
Signer -	22	206	A0 ⁵	8															Note	s									
Sample [Watrix	4G1H	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	
022	51																												
102															<u> </u>														
0:0																													
7 XI																													
5	1																	<u> </u>										 	
6 7																				 	W)#	:3	05	00	35)1 07/	22/22	
8					-			ļ	ļ	<u> </u>	ļ						<u> </u>	<u> </u>			PM:	HMC			Due	N N			
9		ļ			_		-			ļ			<u> </u>	ļ	. ·			<u> </u>			CL	LENT	: HAL	_L ⊑r	14 71/0				
10		<u> </u>					<u> </u>						<u> </u>	<u> </u>				<u> </u>					1	1		 		 	
11							 	ļ					ļ	ļ			ļ							<u> </u>		ļ	ļ		
12								.									1										ļ		
Containe	er Code	s																											

Glas	SS	
1 Gallon Jug with HNO3	DG9S	40mL amber VOA vial H2SO4
100mL amber glass unprserved	VG9U	40mL clear VOA vial
100mL amber glass Na Thiosulfate	VG9T	40mL clear VOA vial Na Thiosul
1 Gallon Jug	VG9H	40mL clear VOA vial HCI
1L amber glass H2SO4	JGFU	4oz amber wide jar
1L amber glass HCl	WGFU	4oz wide jar unpreserved
1L amber glass Na Thiosulfate	BG2U	500mL clear glass unpreserved
L clear glass unpreserved	AG2U	500mL amber glass unpreserved
250mL amber glass H2SO4	WGKU	8oz wide jar unpreserved
250mL amber glass unpreserved		
	Glas 1 Gallon Jug with HNO3 100mL amber glass unprserved 100mL amber glass Na Thiosulfate 1 Gallon Jug 1L amber glass H2SO4 1L amber glass Na Thiosulfate 1L clear glass unpreserved 250mL amber glass H2SO4 250mL amber glass unpreserved	Glass1 Gallon Jug with HNO3DG9S100mL amber glass unprservedVG9U100mL amber glass Na ThiosulfateVG9T1 Gallon JugVG9H1L amber glass H2SO4JGFU1L amber glass HCIWGFU1L amber glass Na ThiosulfateBG2U1L clear glass unpreservedAG2U250mL amber glass H2SO4WGKU250mL amber glass unpreservedKGEU

	Pla	astic /	Misc.	
GCUB	1 Gallon Cubitainer	EZI	5g Encore	
12GN	1/2 Gallon Cubitainer	VOAK	Kit for Volatile Solid	
SP5T	120mL Coliform Na Thiosulfate	l	Wipe/Swab	
BP1N	1L plastic HNO3	ZPLC	Ziploc Bag	
BP1U	1L plastic unpreserved			
BP3S	250mL plastic H2SO4	WT	Water	
BP3N	250mL plastic HNO3	SL	Solid	
BP3U	250mL plastic unpreserved	OL	Non-aqueous liquid	
BP3C	250ml plastic NAOH	WP	Wipe	
BP2S	500mL plastic H2SO4			
BP211	500ml plastic uppreserved			

BP2U 500mL plastic unpreserved

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Client: Project:	Animas BMG L	s Environme Landfarm TZ	ntal Sei Soil Sa	rvices amples							
Sample ID: MB-	68311	SampT	ype: mb	olk	Tes	tCode: EF	PA Method	300.0: Anion:	S		
Client ID: PBS	6	Batch	n ID: 683	311	F	RunNo: 8	9002				
Prep Date: 6/2	23/2022	Analysis D)ate: 6/2	23/2022	S	SeqNo: 3'	160629	Units: mg/K	ſg		
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	N)	ND	0.30								
Nitrogen, Nitrate (As	N)	ND	0.30								
Sulfate		ND	1.5								
Sample ID: LCS	5-68311	SampT	ype: Ics		Tes	tCode: EF	PA Method	300.0: Anion	S		
Client ID: LCS	s	Batch	n ID: 683	311	F	RunNo: 8 9	9002				
Prep Date: 6/2	23/2022	Analysis D)ate: 6/2	23/2022	5	SeqNo: 3	160632	Units: mg/K	(g		
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	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			

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

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20-Jul-22

Client: Project:	Animas E BMG Lar	Environme ndfarm TZ	ental Ser Z Soil Sa	vices imples							
Sample ID:	MB-68263	SampT	уре: МВ	LK	Tes	tCode: EF	A Method	6020A: Total	Metals		
Client ID:	PBS	Batcl	n ID: 682	63	F	RunNo: 8 9	026				
Prep Date:	6/21/2022	Analysis E	Date: 6/2	24/2022	S	SeqNo: 31	61548	Units: mg/K	g		
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:	MSLLLCS-68263	SampT	ype: LC	SLL	Tes	tCode: EF	A Method	6020A: Total	Metals		
Client ID:	BatchQC	Batcl	n ID: 682	:63	F	RunNo: 89	026				
Prep Date:	6/21/2022	Analysis E	Date: 6/2	24/2022	5	SeqNo: 31	61549	Units: mg/K	g		
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	SampT	ype: LC	S	Tes	tCode: EF	A Method	6020A: Total	Metals		
Client ID:	LCSS	Batch	n ID: 682	63	F	RunNo: 89	026				
Prep Date:	6/21/2022	Analysis E	Date: 6/2	24/2022	S	SeqNo: 31	61550	Units: mg/K	g		
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	L SampT	уре: МS		Tes	tCode: EF	A Method	6020A: Total	Metals		
Client ID:	Cell #2 TZ CS-1	Batcl	n ID: 682	63	F	RunNo: 89	026				
Prep Date:	6/21/2022	Analysis E	Date: 6/2	24/2022	5	SeqNo: 31	61599	Units: mg/K	g		
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:	2206A08-001AMS	DL SampT	уре: МS	D	Tes	tCode: EF	A Method	6020A: Total	Metals		
Client ID:	Cell #2 TZ CS-1	Batcl	n ID: 682	:63	F	RunNo: 89	026				
Prep Date:	6/21/2022	Analysis E	Date: 6/2	24/2022	S	SeqNo: 31	61600	Units: mg/K	g		
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	

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

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Client:	Animas E	nvironmer	ntal Se	rvices							
Project:	BMG Lan	dfarm TZ	Soil Sa	amples							
Sample ID:	2206A08-001AMSD	L SampT	ype: MS	SD	Tes	tCode: EF	A Method	6020A: Total	Metals		
Client ID:	Cell #2 TZ CS-1	Batch	ID: 68	263	F	RunNo: 89	026				
Prep Date:	6/21/2022	Analysis Da	ate: 6/	24/2022	S	SeqNo: 31	61600	Units: mg/K	g		
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	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	6020A: Total	Metals		
Client ID:	PBS	Batch	ID: 682	263	F	RunNo: 89	880				
Prep Date:	6/21/2022	Analysis Da	ate: 6/	28/2022	S	SeqNo: 31	65463	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Uranium		ND	0.20								
Sample ID:	MSLLLCS-68263	SampT	ype: LC	SLL	Tes	tCode: EF	PA Method	6020A: Total	Metals		
Client ID:	BatchQC	Batch	ID: 682	263	F	RunNo: 89	880				
Prep Date:	6/21/2022	Analysis Da	ate: 6/	28/2022	S	SeqNo: 31	65464	Units: mg/K	g		
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	SampT	ype: LC	S	Tes	tCode: EF	A Method	6020A: Total	Metals		
Client ID:	LCSS	Batch	ID: 68	263	F	RunNo: 89	880				
Prep Date:	6/21/2022	Analysis Da	ate: 6/	28/2022	S	SeqNo: 31	65465	Units: mg/K	g		
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	L SampT	ype: MS	3	Tes	tCode: EF	A Method	6020A: Total	Metals		
Client ID:	Cell #2 TZ CS-1	Batch	ID: 68	263	F	RunNo: 89	9136				
Prep Date:	6/21/2022	Analysis Da	ate: 6/	29/2022	S	SeqNo: 31	67489	Units: mg/K	g		
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:	2206A08-001AMSD	L SampT	ype: MS	SD	Tes	tCode: EF	A Method	6020A: Total	Metals		
Client ID:	Cell #2 TZ CS-1	Batch	ID: 682	263	F	RunNo: 89	9136				
Prep Date:	6/21/2022	Analysis Da	ate: 6/	29/2022	S	SeqNo: 31	67490	Units: mg/K	g		
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	

Qualifiers:

Uranium

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

5.0

0.49

4.910

Analyte detected in the associated Method Blank В

86.7

70

130

1.46

Е Estimated value

0.7094

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit

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2206A08

20-Jul-22

OC SUMMARY REPORT

QC St Hall Er	nvironmenta	KEPC I Analy	ysis L	aborato	ry, Inc.					WO#:	2206A08 20-Jul-22
Client: Project:	Animas E BMG Lar	Environme ndfarm TZ	ntal Ser Z Soil Sa	rvices amples							
Sample ID:	MB-68263	SampT	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	6020A: Total	Metals		
Client ID:	PBS	Batcl	n ID: 68;	263	F	RunNo: 8 9	9181				
Prep Date:	6/21/2022	Analysis E	Date: 6/	30/2022	S	SeqNo: 31	170013	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony		ND	0.20								
Sample ID:	MSLLLCS-68263	SampT	Гуре: LC	SLL	Tes	tCode: EF	PA Method	6020A: Total	Metals		
Client ID:	BatchQC	Batcl	n ID: 682	263	F	RunNo: 8 9	9181				
Prep Date:	6/21/2022	Analysis E	Date: 6/	30/2022	5	SeqNo: 31	170016	Units: mg/K	g		
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	SampT	Гуре: LC	S	Tes	tCode: EF	PA Method	6020A: Total	Metals		
Client ID:	LCSS	Batcl	n ID: 682	263	F	RunNo: 8 9	9181				
Prep Date:	6/21/2022	Analysis E	Date: 6/	30/2022	S	SeqNo: 31	70017	Units: mg/K	g		
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:	2206A08-001AMSL	L SampT	уре: МS	3	Tes	tCode: EF	PA Method	6020A: Total	Metals		
Client ID:	Cell #2 TZ CS-1	Batcl	h ID: 68;	263	F	RunNo: 8 9	9181				

Prep Date:	6/21/2022	Analysis Da	ite: 6/3	0/2022	S	3eqNo: 3 1	170021	Units: mg/K	g			
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:	2206A08-001AMSDI	L SampTy	pe: MS	D	Tes	tCode: EF	A Method	6020A: Total	Metals			

Client ID:	Cell #2 TZ CS-1	Batch	n ID: 682	263	F	RunNo: 8 9	9181					
Prep Date:	6/21/2022	Analysis D	ate: 6/3	30/2022	S	SeqNo: 31	70022	Units: mg/K	g			
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.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

- % Recovery outside of range due to dilution or matrix interference S
- Analyte detected in the associated Method Blank В

Е Estimated value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 12 of 23

Prep Date:

Surr: DNOP

Client ID:

Prep Date:

Surr: DNOP

Analyte

Sample ID: MB-68409

PBS

Analyte

6/28/2022

6/28/2022

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Analysis Date: 6/28/2022

SampType: MBLK

Batch ID: 68409

Analysis Date: 6/28/2022

PQL

PQL

SPK value SPK Ref Val

SPK value SPK Ref Val

5.000

10.00

Result

Result

7.7

4.2

Hall Er	nvironment	al Analys	515 L	aborato	ry, Inc.						20-Jul-22				
Client: Project:	Animas BMG La	Environmen andfarm TZ	tal Se Soil S	rvices amples											
Sample ID:	MB-68322	SampTy	pe: MB	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	Organics					
Client ID:	PBS	Batch	ID: 68	322	F	RunNo: 8	8982								
Prep Date:	6/23/2022	Analysis Da	ate: 6/	24/2022	:	SeqNo: 3	162904	Units: mg/K	٢g						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Diesel Range	Organics (DRO)	ND	15												
Motor Oil Rang	ge Organics (MRO)	ND	50												
Surr: DNOP)	11		10.00		106	51.1	141							
Sample ID:	LCS-68322	SampTy	pe: LC	s	Tes	TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID:	LCSS	Batch	ID: 68	322	F	RunNo: 8	8982								
Prep Date:	6/23/2022	Analysis Da	ate: 6/	24/2022	:	SeqNo: 3	162905	Units: mg/K	٢g						
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	SampTy	pe: LC	s	Tes	stCode: El	PA Method	8015M/D: Die	esel Range	Organics					
Client ID:	LCSS	Batch	ID: 68	409	F	RunNo: 8	9082								

SeqNo: 3166134

LowLimit

LowLimit

51.1

51.1

%REC

84.6

RunNo: 89082

%REC

76.9

SeqNo: 3166138

Units: %Rec

HighLimit

Units: %Rec

HighLimit

141

TestCode: EPA Method 8015M/D: Diesel Range Organics

141

%RPD

%RPD

RPDLimit

RPDLimit

Qual

Qual

Qualifiers:

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

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2206A08

Client:AnimasProject:BMG L	Environme andfarm TZ	ental Sei Z Soil Sa	rvices amples							
Sample ID: mb-68260	Samp	Type: ME	BLK	TestCode: EPA Method 8015D: Gasoline Range						
Prep Date: 6/21/2022	Analysis [Date: 6/	260 24/2022	г S	SeqNo: 31	60385	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 980	5.0	1000		98.2	37.7	212			
Sample ID: Ics-68260	Samp	Гуре: LC	S	Tes	tCode: EF	A Method	8015D: Gasol	ine Range		
Client ID: LCSS	Batc	h ID: 682	260	F	RunNo: 88	3994				
Prep Date: 6/21/2022	Analysis [Date: 6/2	23/2022	S	SeqNo: 31	60387	Units: mg/K	g		
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 Quanitative 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

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20-Jul-22

WO#:

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Client:	Anim	as Environme	ental Ser	rvices								
Project:	BMG	Landfarm TZ	Z Soil Sa	amples								
Sample ID:	MB-68309	SampT	Гуре: МЕ	BLK	TestCode: EPA Method 8082A: PCB's							
Client ID:	PBS	Batch	h ID: 683	309	F	9075						
Prep Date:	6/23/2022	Analysis D	Date: 6/2	28/2022	S	SeqNo: 31	164308	Units: mg/Kg	9			
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: Decacl	hlorobiphenyl	0.056		0.06250		88.8	47.2	115				
Surr: Tetracl	hloro-m-xylene	0.054		0.06250		85.6	15	110				
Sample ID:	LCS-68309	SampT	Гуре: LC	S	Tes	tCode: EF	PA Method	8082A: PCB's				
Client ID:	LCSS	Batch	h ID: 683	309	F	RunNo: 89075						
Prep Date:	6/23/2022	Analysis D	Date: 6/2	28/2022	S	SeqNo: 31	164309	Units: mg/Kg	9			
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: Decacl	hlorobiphenyl	0.052		0.06250		83.2	47.2	115				
Surr: Tetracl	hloro-m-xylene	0.051		0.06250		81.2	15	110				
Sample ID:	LCSD-68309	SampT	Type: LC	SD	Tes	tCode: EF	PA Method	8082A: PCB's				
Client ID:	LCSS02	Batch	h ID: 683	309	F	RunNo: 8 9						
Prep Date:	6/23/2022	Analysis D	Date: 6/2	28/2022	S	SeqNo: 31	164310	Units: mg/Kg	9			
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: Decacl	hlorobiphenyl	0.056		0.06250		88.8	47.2	115	0	0		
Surr: Tetracl	hloro-m-xylene	0.054		0.06250		85.6	15	110	0	0		
Sample ID:	MB-68309	SampT	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8082A: PCB's				
Client ID:	PBS	Batch	h ID: 683	309	F	RunNo: 8 9	9075					
Prep Date:	6/23/2022	Analysis D	Date: 6/2	28/2022	S	SeqNo: 31	164311	Units: mg/Kg	9			
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.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix 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

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Client: Project:	Animas E BMG Lan	nvironmer dfarm TZ	ntal Ser Soil Sa	vices imples							
Sample ID: MB-6	8309	SampT	/pe: MB	LK	Tes	tCode: EF	PA Method	8082A: PCB's			
Client ID: PBS		Batch	ID: 683	09	F	RunNo: 89	9075				
Prep Date: 6/23	/2022	Analysis D	ate: 6/2	28/2022	S	SeqNo: 31	164311	Units: mg/K	g		
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: Decachlorobip	henyl	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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- Analyte detected in the associated Method Blank В
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Sample ID: 100ng Ics4 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 Surr: Dibromofluoromethane 0.54 0.5000 108 70 130 130 Surr: 1,2-Dichloroethane-d4 0.52 0.5000 100 70 130 130 Surr: Toluene-d8 0.50 0.5000 98.1 70 130 130 SampType: MS TestCode: EPA Method 8260B: Volatiles Volatiles 130 130 Sample ID: 2206a08-001ams SampType: MS TestCode: EPA Method 8260B: Volatiles 130 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<	Qual
Client ID: BatchQC Batch ID: SB9 38 RunNo: BB1 30 30 Prep Date: Analysis Date: 6/24/2022 SeqNo: 3162433 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Sur:: Dibromofluoromethane 0.54 0.500 108 70 130 140 130 Sur:: 1,2-Dichloroethane-d4 0.52 0.5000 104 70 130 140 130 140 140 130 140 <	Qual
Prep Date: Analysis Date: is // 2 // 2022 SeqNo: 31 E 433 Units: is // Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Surr: Dibromofluoromethane 0.54 0.5000 108 70 130 130 Surr: 1,2-Dichloroethane-d4 0.52 0.5000 104 70 130 140 140 130 140	Qual
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Surr: Dibromofluoromethane 0.54 0.5000 108 70 130 130 Surr: 1,2-Dichloroethane-d4 0.52 0.5000 104 70 130 140 140 Surr: Toluene-d8 0.50 0.5000 100 70 130 140	Qual
Surr: Dibromofluoromethane 0.54 0.500 108 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 Se0B: Volatiles 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	Qual
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	Qual
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	Qual
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	Qual
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	Qual
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	Qual
Prep Date: 6/21/2022 Analysis Date: 6/25/2022 SeqNo: 3162435 Units: mg/Kg	Qual
	Qual
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	
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: Dibromotiluoromethane 0.54 0.4897 110 70 130	
Surr: 1,2-Dichloroethane-d4 0.53 0.4897 107 70 130	
Surr: I oluene-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: Dibromotluoromethane 0.53 0.4873 109 70 130 0 0	
Surr: 1,2-Dichloroethane-d4 0.52 0.4873 107 70 130 0 0	
Surr: loluene-d8 0.48 0.48/3 98.3 70 130 0 0	
Surr: 4-Bromofluorobenzene 0.50 0.4873 102 70 130 0 0	
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

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

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Client: Animas Project: BMG La	Environme andfarm TZ	ental Sei Z Soil Sa	rvices amples							
Sample ID: Ics-68260	Samp	Гуре: LC	S	Tes	tCode: EF	PA Method	8260B: Volat	les		
Client ID: LCSS	Batc	h ID: 68	260	F	RunNo: 8	9038				
Prep Date: 6/21/2022	Analysis [Date: 6/	25/2022	S	SeqNo: 3	162449	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	Samp	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8260B: Volat	les		
Client ID: PBS	Batc	h ID: S8	9038	F	RunNo: 8 9	9038				
Prep Date:	Analysis [Date: 6/2	24/2022	5	SeqNo: 3	162450	Units: %Red	;		
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	Samp	Гуре: МЕ	BLK	TestCode: EPA Method 8260B: Volatiles						
Client ID: PBS	Batc	h ID: 682	260	F	RunNo: 8 9					
Prep Date: 6/21/2022	Analysis [Date: 6/2	25/2022	Ś	SeqNo: 3	162451	Units: mg/K	g		
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								

* Value exceeds Maximum Contaminant Level.

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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

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Client:AnimaProject:BMG I	as Environme Landfarm TZ	ental Services Z Soil Samples							
Sample ID: mb-68260	Samp	Type: MBLK	Te	stCode: EPA Met	hod 8260B: Vola	tiles			
Client ID: PBS	Bate	h ID: 68260		RunNo: 80038					
Dren Date: 0/01/0000		Dete: 0/05/0000		Carble: 0400454	l leite				
Prep Date: 6/21/2022	Analysis I	Date: 6/25/2022		SeqiNo: 3162451	Units: mg/ I	٨g			
Analyte	Result	PQL SPK value	SPK Ref Val	%REC LowL	imit HighLimit	%RPD	RPDLimit		
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 (PCF)	ND	0.050							

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

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Qual

Client: Anima Project: BMG	s Environme Landfarm TZ	ental Sei Z Soil Sa	rvices amples								
Sample ID: mb-68260	Samp	Гуре: МЕ	BLK	TestCode: EPA Method 8260B: Volatiles							
Client ID: PBS	Batc	Batch ID: 68260		F	RunNo: 89038						
Prep Date: 6/21/2022	6/21/2022 Analysis Dat		25/2022	S	SeqNo: 31	162451	Units: mg/K				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
trans-1,2-DCE	ND	0.050									
rans-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				

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- Р Sample pH Not In Range
- RL Reporting Limit

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WO#:	2206A08
	AA T 1 AA

Client: Project:	Anima BMG	as Environme Landfarm TZ	ental Sei Z Soil Sa	rvices amples							
Sample ID: mb	o-68450	SampT	уре: МЕ	BLK	Tes	tCode: SI	V8270C				
Client ID: PB	S	Batch	n ID: 684	150	F	RunNo: 8 9	9584				
Prep Date: 6/	/29/2022	Analysis D	Date: 7/	18/2022	5	SeqNo: 31	189044	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene		ND	0.010								
1-Methylnaphthalen	ne	ND	0.010								
2-Methylnaphthalen	ne	ND	0.010								
Benzo(a)pyrene		ND	0.020								
Surr: Nitrobenzer	ne-d5	0.024		0.06660		36.5	0	0			S
Surr: 2,4,6-Tribro	omophenol	0.041		0.1333		30.5	0	0			S
Surr: 2-Fluorobip	henyl	0.032		0.06660		47.5	0	0			S
Surr: 4-Terpheny	/l-d14	0.051		0.06660		77.1	0	0			S
Sample ID: Ics	-68450	SampT	ype: LC	S	Tes	tCode: SV	V8270C				
Client ID: LC	SS	Batch	n ID: 684	450	F	RunNo: 8 9	9584				
Prep Date: 6/	/29/2022	Analysis D	Date: 7/*	18/2022	S	SeqNo: 31	189045	Units: mg/K	g		
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
I-Methylnaphthalen	ne	0.021	0.010	0.03333	0	62.0	70	130			S
2-Methylnaphthalen	ne	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: Nitrobenzer	ne-d5	0.054		0.06660		81.6	70	130			
Surr: 2,4,6-Tribro	omophenol	0.12		0.1333		89.8	70	130			
Surr: 2-Fluorobip	henyl	0.069		0.06660		104	70	130			
Surr: 4-Terpheny	/l-d14	0.096		0.06660		144	70	130			S

Qualifiers:

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

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Client:	Animas E	invironmenta	I Services							
Project:	BMG Lar	ndfarm TZ So	oil Samples							
Sample ID:	MB-68280	SampType	: MBLK	Tes	stCode: EP	PA Method	7471B: Merc	ury		
Client ID:	PBS	Batch ID	68280	F	RunNo: 88	3946				
Prep Date:	6/22/2022	Analysis Date	6/22/2022	Ş	SeqNo: 31	58670	Units: mg/K	g		
Analyte		Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury		ND 0.	033							
Sample ID:	LCSLL-68280	SampType	E LCSLL	Tes	stCode: EF	PA Method	7471B: Merc	ury		
Client ID:	BatchQC	Batch ID	68280	F	RunNo: 88	3946				
Prep Date:	6/22/2022	Analysis Date	6/22/2022	\$	SeqNo: 31	158671	Units: mg/K	g		
Analyte		Result P	QL 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	Tes	stCode: EP	PA Method	7471B: Merc	ury		
Client ID:	LCSS	Batch ID	68280	F	RunNo: 88	3946				
Prep Date:	6/22/2022	Analysis Date	6/22/2022	:	SeqNo: 31	58672	Units: mg/K	g		
Analyte		Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury		0.17 0.	033 0.1667	0	99.8	80	120			

Qualifiers:

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- S % Recovery outside of range due to dilution or matrix interference
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- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Client:	Animas	s Environme	ental Sei	vices									
Project:	BMG L	andfarm TZ.	Z Soil Sa	amples									
Sample ID:	MB-68263	SampT	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	6010B: Soil N	letals				
Client ID:	PBS	Batch ID: 68263				RunNo: 89031							
Prep Date:	6/21/2022	Analysis E	Date: 6/2	24/2022	S	SeqNo: 31	161939	Units: mg/K	g				
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	SampT	Гуре: LC	s	Tes	tCode: EF	PA Method	6010B: Soil M	letals				
Client ID:	LCSS	Batcl	h ID: 682	263	F	RunNo: 8 9	9031						
Prep Date:	6/21/2022	Analysis E	Date: 6/2	24/2022	5	SeqNo: 31	161941	Units: mg/K	g				
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.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix 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

2206A08

20-Jul-22

D	10	-	1 1	10
rage	14	/ 0	[]	02

ived by OGDALL1/22/2022 4:24:31 PM ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Ana 4 Albuque TEL: 505-345-3975 FAJ Website: www.hallen	lysis Laboratory 201 Hawkins NE rque, NM 87109 7: 505-345-4107 vironmental.com	Sam	ple Log-In C	Page 127 of 1 heck List
Client Name: Animas Environmental Services	Work Order Number: 22	D6A08		RcptNo:	1
Received By: Isaiah Ortiz	6/18/2022 9:50:00 AM	90 61	I_O-	*	
Completed By: Sean Livingston	6/20/2022 10:11:07 AM	<	5. 1.	-	
Reviewed By: JM 6/20/22		_			
<u>Chain of Custody</u>					
1. Is Chain of Custody complete?	Ye	s 🔽 🛛 1	No 🗌	Not Present	
2. How was the sample delivered?	Co	urier			
Log In					
3. Was an attempt made to cool the samples?	Yes	5 🗸 N	No 🗌		
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		10 🗌		
6. Sufficient sample volume for indicated test(s)?	Yes				
7. Are samples (except VOA and ONG) properly	preserved? Yes				
8. Was preservative added to bottles?	Yes		lo 🔽	NA 🗌	
Q. Received et least 4 victority to the					
5. Received at least 1 vial with headspace <1/4" f	or AQ VOA? Yes		• 🗆	NA 🗹	
TO, were any sample containers received broken?	Yes	⊔ N	lo 🗹	# of preserved	
11. Does paperwork match bottle labels?	Yes		• □	bottles checked for pH:	
(Note discrepancies on chain of custody)				(<2 01-	12 unless noted)
12. Are matrices correctly identified on Chain of Cu	stody? Yes	V No	•	Adjusted?	
13. Is it clear what analyses were requested?	Yes	✓ No	• 🗆		100 1
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes	✓ No	• □	Checked by:	44 6.20.2
Special Handling (if applicable)					
15. Was client notified of all discrepancies with this	s order? Yes		lo 🗌		
Person Notified	Date				
By Whom:		ail 🗌 Bhana [
Regarding:					
Client Instructions:			and a state of the second		
16. Additional remarks: 0, 11 C	ajolog for	3.00	2 1-	Luc Care	camples
The second secon	zipice for	3.0.	- 00	ing for	sumpres-
17. Cooler Information	- KRA 1	20.2	2		
1 4.8 Good	Intact Seal No Seal D	ate Signed	d By		

Page 1 of 1

<u> </u>	hain	-of-Cu	ustody Record	Turn-Around Ti	me:									IX/T					
Slient:	1	Animas E	nvironmental Services	Standard Standard	🗆 Rush	1						AL							
age				Project Name:								ЬU	KA	10	KI				
Mailing	Address	3:	P.O. Box 8	BMG L	.andfarm - TZ	soil samples	4901 Hawkins NE - Albuquerque, NM 87109												
	Far	mington,	NM 87499-0008	Project #:			Tel 505-345-3975 Eax 505-345-4107												
Phone	#:	720-537	-6650	1	AES 0406	05		• ;	4	55-54	+3-39	Ana	lyses	Reg	uest	107	1 14		
email o	r Fax#:	aledgerwo	od@animasenvironmental.com	Project Manage	er:														
	Package:				Angela Ledge	rwood		8015		103									
🛛 Star	ndard		□ Level 4 (Full Validation)		Elizabeth McNally			ethod		.2.3									
Accredi	tation:	□ Az Co	ompliance	Sampler:			od 3	/ia Me	021	20.6									
		□ Other		On Ice:	2 Yes	🗆 No	ARO vi ARO VI												
	(Type)			# of Coolers: Cooler Temp(incl	uding CE): CI &	-+0	via N	80 / N	1eth	B NN									
							des	10/0	via N	and									
Date	Time	Matrix	Sample Name	Container Type and #	Preservativ e Type	HEAL No.	Chlori	PH GR	STEX V	ist A									
-15-22	11:51	Soil	Cell #2 TZ CS-1	2 x 8-oz. jars 1-gal Ziplock bag	Cool	2200,01	x	X	X	X								+	+
-15-22	12:54	Soil	Cell #3 TZ CS-1	2 x 8-oz. jars 1-gal Ziplock bag	Cool	002	х	х	х	х									
							-				_				_		\vdash		+
												-	-				$\left \right $	-+-	+
																			+
2												_	_		_	_		\rightarrow	+
2	2											+						+	+
67:										-						+	$\left \right $	+	+
77																			+
N line	Time:	Relinquiebe	ad by:	Dessived by	(1.7/22-													
10121 1012	51810 Time:	Relinguishe	z	Received by: V		Date Time	Remarks: Please direct-bill this project to BMG.												
61/2	1902	C	er WZ	F-Q	couris	6/18/22 0950	Run list.	full	list o	f Par	rts A a	and B	NMA	C 20.	6.2.3 [,]	103. S	iee at	tache	d
tanay	If necessar	y, samples si	ubmitted to Hall Environmental may be s	ubcontracted to other ac	credited laboratorie	s. This serves as notice of thi	is poss	ibility.	Any si	ub-con	tracted	data will	l be clea	rly notat	ted on th	ne analy	tical rep	ort.	

(a)	 Antimony (Sb) (CAS 7440-36-0) 	0.006 mg/1	
(b)	- Arsenic (As) (CAS 7440-38-2)	0.01 mg/l	
(c)	- Barium (Ba) (CAS 7440-39-3)		
(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)		
(g)	- Cyanide (CN) (CAS 57-12-5)	$0.2 \text{ mg/l} \sim P_A T N$	
(h)	- Fluoride (F) (CAS 16984-48-8)		
(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	
(0)	- 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	PA Gre
(r)	- Benzene (CAS 71-43-2)	0.005 mg/l	
(s)	 Polychlorinated biphenyls (PCB's) (CAS 133 	6-36-3).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	
(11)	vinyl chloride (CAS 75-01-4)	0.002 mg/l	
(jj) -	PAHs: total naphthalene (CAS 91-20-3) plus mon	omethylnaphthalenes0.03 mg/l	
(KK)	- benzo-a-pyrene (CAS 50-32-8)	0.0002 mg/l	
(II)	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	
(00)	- styrene (CAS 100-42-5)	0.1 mg/l	
(pp)	1,2-dichlorobenzene (CAS 95-50-1)	0.6 mg/l	
(qq) (nm)	1,4-dichlorobenzene (CAS 106-46-7)	0.075 mg/l	
(11)	-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,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

CLIENT: Animas Environmental Services

BMG Landfarm VZ Soil Samples

Analytical Report
Lab Order 2206A01

Date Reported: 7/8/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: Cell #1 VZ S-1 Collection Date: 6/15/2022 10:11:00 AM Received Date: 6/18/2022 9:50:00 AM

Lab ID: 2206A01-001	Matrix: SOIL	R	eceived Date	e: 6/	18/2022 9:50:00 AM	
Analyses	Result	RL Q	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH					Analys	st: JME
Petroleum Hydrocarbons, TR	ND	18	mg/Kg	1	6/22/2022	68253
EPA METHOD 8021B: VOLATILES					Analys	st: BRM
Benzene	ND	0.025	mg/Kg	1	6/24/2022 12:59:00 AN	1 68259
Toluene	ND	0.050	mg/Kg	1	6/24/2022 12:59:00 AN	68259
Ethylbenzene	ND	0.050	mg/Kg	1	6/24/2022 12:59:00 AN	68259
Xylenes, Total	ND	0.10	mg/Kg	1	6/24/2022 12:59:00 AN	68259
Surr: 4-Bromofluorobenzene	87.5	70-130	%Rec	1	6/24/2022 12:59:00 AN	68259

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix 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 1 of 19

CLIENT: Animas Environmental Services

BMG Landfarm VZ Soil Samples

Analytical Report Lab Order 2206A01

Date Reported: 7/8/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: Cell #1 VZ S-2 Collection Date: 6/15/2022 10:25:00 AM Received Date: 6/18/2022 9:50:00 AM

Lab ID: 2206A01-002	Matrix: SOIL	R	eceived Date	e: 6/1	18/2022 9:50:00 AM	
Analyses	Result	RL Q	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH					Analys	st: JME
Petroleum Hydrocarbons, TR	ND	19	mg/Kg	1	6/22/2022	68253
EPA METHOD 8021B: VOLATILES					Analys	st: 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.

- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix 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 2 of 19

Analytical Report Lab Order 2206A01

Date Reported: 7/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Servic	es	Cl	ient Sample II): Co	ell #1 VZ S-3					
Project: BMG Landfarm VZ Soil Samp	oles	es Collection Date: 6/15/2022 10:45:00 AM								
Lab ID: 2206A01-003	3 Matrix: SOIL Received Date: 6/18/2022 9:50:00 A									
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.

* Value exceeds Maximum Contaminant Level. **Qualifiers:**

- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits Р Sample pH Not In Range
- RL Reporting Limit

Page 3 of 19

Xylenes, Total

Surr: 4-Bromofluorobenzene

Analytical Report Lab Order 2206A01

Date Reported: 7/8/2022

6/24/2022 1:58:00 AM

6/24/2022 1:58:00 AM

68259

68259

CLIENT:	Animas Environmental Service	client Sample ID: Cell #1 VZ S-4								
Project:	BMG Landfarm VZ Soil Sampl	es	collection Date: 6/15/2022 10:58:00 A						8:00 AM	
Lab ID:	2206A01-004	Matrix:	SOIL	DIL Received Date: 6/18/2022 9:50:00 AM						
Analyses		R	esult	RL	Qual	Units	DF	Date Analy	zed	Batch
EPA MET	[HOD 418.1: TPH								Analyst	JME
Petroleur	m Hydrocarbons, TR		ND	19		mg/Kg	1	6/22/2022		68253
EPA MET	THOD 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
Ethylben	zene		ND	0.050		mg/Kg	1	6/24/2022 1:	58:00 AM	68259

ND

87.9

0.10

70-130

mg/Kg

%Rec

1

1

Hall Environmental Analysis Laboratory, Inc.

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

Qualifiers: *

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

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Lab ID:

CLIENT: Animas Environmental Services

2206A01-005

BMG Landfarm VZ Soil Samples

Analytical Report Lab Order 2206A01

Date Reported: 7/8/2022

Hall Environmental Analysis Laboratory, Inc.

 Client Sample ID: Cell #2 VZ S-1

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

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

 Result
 RL Qual Units DF Date Analyzed Ba

Analyses	Result	RL Qu	al 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.

- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix 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

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Lab ID:

CLIENT: Animas Environmental Services

2206A01-006

BMG Landfarm VZ Soil Samples

Analytical Report Lab Order 2206A01

Date Reported: 7/8/2022

Hall Environmental Analysis Laboratory, Inc.

	Client Sample ID: Cell #2 VZ S-2
	Collection Date: 6/15/2022 11:26:00 AM
Matrix: SOIL	Received Date: 6/18/2022 9:50:00 AM

Analyses	Result	RL Qu	ual 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.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix 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 19

CLIENT: Animas Environmental Services

BMG Landfarm VZ Soil Samples

Analytical Report Lab Order 2206A01

Date Reported: 7/8/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: Cell #2 VZ S-3 Collection Date: 6/15/2022 11:39:00 AM Received Date: 6/18/2022 9:50:00 AM

Lab ID: 2206A01-007	Matrix: SOIL Received Date: 6/18/2022 9:50:00 AM					
Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH					Analys	st: JME
Petroleum Hydrocarbons, TR	ND	17	mg/Kg	1	6/22/2022	68253
EPA METHOD 8021B: VOLATILES					Analys	st: 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.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix 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

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CLIENT: Animas Environmental Services

BMG Landfarm VZ Soil Samples

Analytical Report Lab Order 2206A01

Date Reported: 7/8/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: Cell #2 VZ S-4 Collection Date: 6/15/2022 11:56:00 AM Received Date: 6/18/2022 9:50:00 AM

Lab ID: 2206A01-008 Matrix: SOIL Re				Received Date: 6/18/2022 9:50:00 AM				
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 418.1: TPH					Analys	st: JME		
Petroleum Hydrocarbons, TR	ND	18	mg/Kg	1	6/22/2022	68253		
EPA METHOD 8021B: VOLATILES					Analys	st: 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. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- Analyte detected in the associated Method Blank в
- Е Estimated value J
- Analyte detected below quantitation limits Р Sample pH Not In Range
- RL
 - Reporting Limit

Page 8 of 19

Surr: 4-Bromofluorobenzene

Analytical Report Lab Order 2206A01

Date Reported: 7/8/2022

6/24/2022 3:37:00 AM

68259

CLIENT: Project:	Animas Environmental Service BMG Landfarm VZ Soil Sam	ces ples	Clie Co	nt Sample II Ilection Date): Ce e: 6/1	ell #3 VZ S-1 15/2022 12:12:00 PM	
Lab ID:	2206A01-009	Matrix: SOIL	R	Received Date	e: 6/1	18/2022 9:50:00 AM	
Analyses	8	Result	RL (Qual Units	DF	Date Analyzed	Batch
EPA ME	THOD 418.1: TPH					Analyst	JME
Petroleu	m Hydrocarbons, TR	ND	17	mg/Kg	1	6/22/2022	68253
EPA ME	THOD 8021B: VOLATILES					Analyst	BRM
Benzene	9	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
Ethylben	izene	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

84.8

70-130

%Rec

1

Hall Environmental Analysis Laboratory, Inc.

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

Qualifiers: * Value exceeds Maximum Contaminant Level.

- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix 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 9 of 19

Surr: 4-Bromofluorobenzene

Analytical Report Lab Order 2206A01

Date Reported: 7/8/2022

6/23/2022 10:36:06 PM 68260

CLIENT	: Animas Environmental Servi	ces	Cli	ent Sample II): Ce	ell #3 VZ S-2	
Project:	BMG Landfarm VZ Soil San	nples	C	collection Date	e: 6/	15/2022 12:27:00 PM	
Lab ID:	2206A01-010	Matrix: SOIL]	Received Date	e: 6/	18/2022 9:50:00 AM	
Analyses	S	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA ME	THOD 418.1: TPH					Analys	t: JME
Petroleu	m Hydrocarbons, TR	ND	17	mg/Kg	1	6/22/2022	68253
EPA ME	THOD 8021B: VOLATILES					Analys	t: NSB
Benzene	e	ND	0.025	mg/Kg	1	6/23/2022 10:36:06 PN	68260
Toluene		ND	0.049	mg/Kg	1	6/23/2022 10:36:06 PN	68260
Ethylber	nzene	ND	0.049	mg/Kg	1	6/23/2022 10:36:06 PN	68260
Xylenes.	, Total	ND	0.099	mg/Kg	1	6/23/2022 10:36:06 PM	68260

92.6

70-130

%Rec

1

Hall Environmental Analysis Laboratory, Inc.

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

Qualifiers:

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

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Batch

Analytical Report
Lab Order 2206A01

Date Reported: 7/8/2022

Analyses		Result	RL Qual Units	DF Date Analyzed
Lab ID:	2206A01-011	Matrix: SOIL	Received Date	: 6/18/2022 9:50:00 AM
Project:	BMG Landfarm VZ Soil Sample	S	Collection Date	: 6/15/2022 12:45:00 PM
CLIENT:	Animas Environmental Services		Client Sample ID	: Cell #3 VZ S-3

Hall Environmental Analysis Laboratory, Inc.

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 68260 0.046 mg/Kg 1 6/23/2022 11:47:01 PM 6/23/2022 11:47:01 PM Ethylbenzene ND 0.046 mg/Kg 1 68260 6/23/2022 11:47:01 PM Xylenes, Total ND 0.093 mg/Kg 1 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.
 Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix 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

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CLIENT: Animas Environmental Services

BMG Landfarm VZ Soil Samples

Analytical Report Lab Order 2206A01

Date Reported: 7/8/2022

Hall Environmental A	Analysis Laboratory, Inc.
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Client Sample ID: Cell #3 VZ S-4
Collection Date: 6/15/2022 1:01:00 PM
Received Date: 6/18/2022 9:50:00 AM

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					Analys	st: JME
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1	6/22/2022	68253
EPA METHOD 8021B: VOLATILES					Analys	st: NSB
Benzene	ND	0.025	mg/Kg	1	6/24/2022 12:10:37 AN	1 68260
Toluene	ND	0.049	mg/Kg	1	6/24/2022 12:10:37 AN	68260
Ethylbenzene	ND	0.049	mg/Kg	1	6/24/2022 12:10:37 AN	68260
Xylenes, Total	ND	0.099	mg/Kg	1	6/24/2022 12:10:37 AN	68260
Surr: 4-Bromofluorobenzene	92.9	70-130	%Rec	1	6/24/2022 12:10:37 AN	1 68260

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

Qualifiers: *

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

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CLIENT: Animas Environmental Services

BMG Landfarm VZ Soil Samples

Analytical Report Lab Order 2206A01

Date Reported: 7/8/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: Cell #4 VZ S-1 Collection Date: 6/15/2022 1:20:00 PM Received Date: 6/18/2022 9:50:00 AM

Lab ID: 2206A01-013	Matrix: SOIL Received Date: 6/18/2022 9:50:00 AM					
Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH					Analys	st: JME
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1	6/22/2022	68253
EPA METHOD 8021B: VOLATILES					Analys	st: 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 AN	/ 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.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix 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

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Analytical Report Lab Order 2206A01

Date Reported: 7/8/2022

Hall Environmental Analysis Laboratory, Inc. CLIENT: Animas Environmental Services Client Sample

BMG Landfarm VZ Soil Samples

Client Sample ID: Cell #4 VZ S-2 Collection Date: 6/15/2022 1:36:00 PM Received Date: 6/18/2022 9:50:00 AM

Lab ID: 2206A01-014	Matrix: SOIL Received Date: 6/18/2022 9:50:00 AM					
Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH					Analys	st: JME
Petroleum Hydrocarbons, TR	ND	19	mg/Kg	1	6/22/2022	68253
EPA METHOD 8021B: VOLATILES					Analys	st: 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.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix 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

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Project:

CLIENT: Animas Environmental Services

BMG Landfarm VZ Soil Samples

Analytical Report Lab Order 2206A01

Date Reported: 7/8/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: Cell #4 VZ S-3 Collection Date: 6/15/2022 1:51:00 PM Received Date: 6/18/2022 9:50:00 AM

Lab ID: 2206A01-015	Matrix: SOIL	R	Received Date: 6/18/2022 9:50:00 AM							
Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 418.1: TPH					Analys	st: JME				
Petroleum Hydrocarbons, TR	ND	17	mg/Kg	1	6/22/2022	68253				
EPA METHOD 8021B: VOLATILES					Analys	st: 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.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix 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 15 of 19

Surr: 4-Bromofluorobenzene

Analytical Report Lab Order 2206A01

Date Reported: 7/8/2022

6/24/2022 1:45:02 AM

68260

CLIENT: Project:	Animas Environmental Serv BMG Landfarm VZ Soil Sat	vices mples	Client Sample ID: Cell #4 VZ S-4 Collection Date: 6/15/2022 2:02:00 PM								
Lab ID:	2206A01-016	Matrix: SOIL	Matrix: SOIL Received Date: 6/18/2022 9:50:00 A								
Analyses	5	Result	RL Q	ual Units	DF	Date Analyzed	Batch				
EPA ME	THOD 418.1: TPH					Analyst	: JME				
Petroleu	m Hydrocarbons, TR	ND	17	mg/Kg	1	6/22/2022	68253				
EPA ME	THOD 8021B: VOLATILES					Analyst	: NSB				
Benzene	9	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				
Ethylber	izene	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				

93.1

70-130

%Rec

1

Hall Environmental Analysis Laboratory, Inc.

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

Qualifiers:

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

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	Anima: BMG I	s Environme Landfarm VZ	ntal Sei Z Soil Sa	rvices amples							
Sample ID:	MB-68253	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	418.1: TPH			
Client ID:	PBS	Batch	n ID: 682	253	F	RunNo: 88	3924				
Prep Date:	6/21/2022	Analysis D)ate: 6/3	22/2022	S	SeqNo: 31	58564	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hyd	rocarbons, TR	ND	20								
Sample ID:	LCS-68253	SampT	ype: LC	S	Tes	tCode: EF	PA Method	418.1: TPH			
Client ID:	LCSS	Batch	n ID: 682	253	F	RunNo: 88	3924				
Prep Date:	6/21/2022	Analysis D)ate: 6/2	22/2022	S	SeqNo: 31	58565	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hyd	rocarbons, TR	99	20	104.0	0	95.4	80.2	114			
Sample ID:	LCSD-68253	SampT	ype: LC	SD	Tes	tCode: EF	PA Method	418.1: TPH			
Client ID:	LCSS02	Batch	n ID: 682	253	F	RunNo: 88	3924				
Prep Date:	6/21/2022	Analysis D)ate: 6/2	22/2022	S	SeqNo: 31	58566	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hyd	rocarbons, TR	98	20	104.0	0	94.2	80.2	114	1.23	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 Quanitative 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

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2206A01

08-Jul-22

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	Animas E BMG Lan	nvironme dfarm V2	ental Se Z Soil S	rvices amples							
Sample ID:	mb-68260	Samp	Type: MI		Tes	stCode: FF	PA Method	8021B: Volat	iles		
Client ID:	PBS	Batc	h ID: 68	260	F	RunNo: 8	R994	00210. 00101	lico		
Pren Date	6/21/2022	Analysis [200			160401	Inits: ma/k	ία.		
i iop Date.	0/21/2022			24/2022		Joq110. 3	100401				. .
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, I otal		ND	0.10	4 000		010	70	100			
Surr: 4-Bron	nofluorobenzene	0.94		1.000		94.0	70	130			
Sample ID:	LCS-68260	Samp ⁻	Гуре: LC	S	Tes	stCode: EF	PA Method	8021B: Volat	iles		
Client ID:	LCSS	Batc	h ID: 68	260	F	RunNo: 88	8994				
Prep Date:	6/21/2022	Analysis [Date: 6/	23/2022	:	SeqNo: 31	160402	Units: mg/k	(g		
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-Bron	nofluorobenzene	0.95		1.000		94.8	70	130			
Sample ID:	2206a01-010ams	Samp	Гуре: М	6	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID:	Cell #3 VZ S-2	Batc	h ID: 68	260	F	RunNo: 88	8994				
Prep Date:	6/21/2022	Analysis [Date: 6/	23/2022	\$	SeqNo: 31	160408	Units: mg/k	(g		
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-Bron	nofluorobenzene	0.93		0.9843		94.3	70	130			
Sample ID:	2206a01-010amsd	Samp	Гуре: М	SD	Tes	stCode: EF	PA Method	8021B: Volat	iles		
Client ID:	Cell #3 VZ S-2	Batc	h ID: 68	260	F	RunNo: 88	8994				
Prep Date:	6/21/2022	Analysis [Date: 6/	23/2022	:	SeqNo: 31	160409	Units: mg/k	(g		
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-Bron	nofluorobenzene	0.93		0.9833		95.0	70	130	0	0	

Qualifiers:

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

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2206A01

08-Jul-22

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:AnimaProject:BMG	ient: Animas Environmental Services oject: BMG Landfarm VZ Soil Samples									
Sample ID: Ics-68259	Samp	Type: LC	S	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batc	h ID: 682	259	F	RunNo: 8	3995				
Prep Date: 6/21/2022	Analysis I	Date: 6/2	23/2022	5	SeqNo: 3	160500	Units: mg/K	g		
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	Samp	Туре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: PBS	Batc	h ID: 682	259	F	RunNo: 8	3995				
Prep Date: 6/21/2022	Analysis I	Date: 6/2	23/2022	Ş	SeqNo: 3'	160501	Units: mg/K	g		
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.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix 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

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2206A01

08-Jul-22

Page	150	of	<i>162</i>

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HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Ana. 49 Albuque TEL: 505-345-3975 FAX Website: www.hallenv	lysis Laboratory 201 Hawkins NE 1906, NM 87109 7: 505-345-4107 7: finnmental.com	Sample Log-In Check List				
Client Name: Animas Environmental Services	Work Order Number: 22	06A01		RcptNo: 1			
Received By: Isaiah Ortiz 6	/18/2022 9:50:00 AM		エーC	X			
Completed By: Cheyenne Cason 6	/20/2022 7:52:27 AM	C	hal				
Reviewed By: 1n 6/20/22							
Chain of Custody							
1. Is Chain of Custody complete?	Ye	s 🖌	No 🗌	Not Present			
2. How was the sample delivered?	Col	urier					
Log In			_	_			
5. Was an attempt made to cool the samples?	Yes	s 🗸	No 🗌	NA			
4. Were all samples received at a temperature of	>0° C to 6.0°C Yes		No 🗌				
5. Sample(s) in proper container(s)?	Yes		No 🗌				
6. Sufficient sample volume for indicated test(s)?	Yes	\checkmark	No 🗌				
7. Are samples (except VOA and ONG) properly pr	reserved? Yes	\checkmark	No 🗌				
8. Was preservative added to bottles?	Yes		No 🗹	NA 🗌			
9. Received at least 1 vial with headspace <1/4" fo	r AQ VOA? Yes		No 🗌	NA 🔽			
10. Were any sample containers received broken?	Yes		No 🗹	# of preserved			
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes		No 🗌	for pH: (<2 or >12 unle	ess noted)		
12. Are matrices correctly identified on Chain of Cus	tody? Yes		No 🗌	Adjusted?	1484 6.2		
13. Is it clear what analyses were requested?	Yes		No 🗌	1100	1700		
 Were all holding times able to be met? (If no, notify customer for authorization.) 	Yes		No 🗌	Checked by: KPG	510-		
Special Handling (if applicable)					0.20.2		
15. Was client notified of all discrepancies with this	order? Yes		No 🗌	NA 🗹			
Person Notified:	Date:		essenterio antesperat				
By Whom:	Via: 🗌 eN	lail 🗌 Phone	🗌 Fax	In Person			
Regarding:							
Client Instructions:							
16. Additional remarks:							
17. <u>Cooler Information</u> Cooler No Temp °C Condition Seal I	ntact Seal No Seal D	ate Sign	ed By				

Page 1 of 1

C	hain-	of-Cu	ustody Record	Turn-Around Ti	me:				· 1	ц.				тр				
Client:	A	Animas E	nvironmental Services	Standard	□ Rusl	h							AL					
				Project Name:			ANALYSIS LABORATC					JK						
Mailing	Address	:	P.O. Box 8	BMG L	.andfarm - VZ	soil samples		10	01 Ца	ww	w.nalie N⊏		nmen	ital.co	om M 97	100		
	Far	minaton.	NM 87499-0008	Project #:			-	+3		WKI15			uerqu	Je, M		109		
Phone	<i>#</i> ·	720-537	-6650	-	AES 0404	205	Tel. 505-345-3975 Fax 505-345-4107											
mail o	n. r. Fax#:	aledoenvo			AES 0400	505	Analyses Request					T	·					
		aleugerwor	od@animaservironmental.com	Project Manage	er:													
A/QC	Package:				Angela Ledge	erwood												
⊠ Sta	ndard		Level 4 (Full Validation)		Elizabeth Mo	cNally												
Accred	itation:	🗆 Az Co	mpliance	Sampler: CL	-150		021											
	AC	□ Other	·	On Ice:	2 Yes	🗆 No	d 8(-									
) (Type) _			# of Coolers:	(tho	418										
				Cooler Temp(inclu	uding CF): 4,8	*±0	Me	ethod										
				Container Type	Preservativ		via	ia Me										
Date	Time	Matrix	Sample Name	and #	e Type	HEAL NO.	3TEX	N Hd.	-									
-15-22	10:11	Soil	Cell #1 VZ S-1	2 - 4 oz jars	Cool	001	X	X		-					-	-		
ſ	10:25	Soil	Cell #1 VZ S-2	2 - 4 oz jars	Cool	CER-	X	Х				-				+		
	10:45	Soil	Cell #1 VZ S-3	2 - 4 oz jars	Cool	CO3	X	Х	-							+-		
	10:58	Soil	Cell #1 VZ S-4	2 - 4 oz jars	Cool	004	X	Х										
	11:11	Soil	Cell #2 VZ S-1	2 - 4 oz jars	Cool	005	X	Х										
	11:26	Soil	Cell #2 VZ S-2	2 - 4 oz jars	Cool	006	X	Х										
	11:39	Soil	Cell #2 VZ S-3	2 - 4 oz jars	Cool	657	X	X										
2	11:56	Soil	Cell #2 VZ S-4	2 - 4 oz jars	Cool	008	X	Х										
	12:12	Soil	Cell #3 VZ S-1	2 - 4 oz jars	Cool	009	X	Х										
-	12:27	Soil	Cell #3 VZ S-2	2 - 4 oz jars	Cool	010	X	Х										
\perp	12:45	Soil	Cell #3 VZ S-3	2 - 4 oz jars	Cool	OIL	X	Х										
	13:01	Soil	Cell #3 VZ S-4	2 - 4 oz jars	Cool	012	X	Х										
	13:20	Soil	Cell #4 VZ S-1	2 - 4 oz jars	Cool	013	Х	Х										
	13:36	Soil	Cell #4 VZ S-2	2 - 4 oz jars	Cool	ØЦ	X	Х										
	13:51	Soil	Cell #4 VZ S-3	2 - 4 oz jars	Cool	015	X	Х										
alaa	14:02	Soil	Cell #4 VZ S-4	2 - 4 oz jars	Cool	016/17/22	X	Х										
ne 2 4	lime:	Relinquishe	d by:	Received by: V	lia:	Date Time	Rem	arks	:									
HUTIL	1810	le	-u-	1 Who		9/1/201810	Plea	ase	dired	t-bill	l this	proj	ect t	o Bl	VIG.			
17/22	1960	Relinguishe	to by:	Received by: V	ia:	Date Time												
. 1	VV	19	<i>, , , , , , , , , ,</i>	Lach 1	aun	61322 0430												



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,

ander

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Fi	nvironmental Analysis I		Analytical Report Lab Order 2211165					
		200010	tory, me.		1 10	Dat	e Reported: 11/7/2022	
CLIENT:	Animas Environmental Services			Client Sar	nple ID:	: MW-2		
Project:	BMG Landfarm Sulfate in Groun	ndwater		Collection	on Date:	11/2/2	022 8:46:00 AM	
Lab ID:	2211165-001	Matrix:	GROUNDWA	Receive	ed Date:	11/3/2	022 6:25:00 AM	
Analyses		I	Result	RL Qual	Units	DF	Date Analyzed	
EPA ME	THOD 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. Sample Diluted Due to Matrix

D Н

- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 1 of 3

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						An Lat	alytical Report Order 2211165
Hall E	nvironmental Analysis I		Date Reported: 11/7/2022				
CLIENT:	Animas Environmental Services			Client Sar	nple ID:	MW-3	
Project:	BMG Landfarm Sulfate in Grour	ndwater		Collectio	on Date:	11/2/2	022 9:15:00 AM
Lab ID:	2211165-002	Matrix:	GROUNDWA	Receive	ed Date:	11/3/2	022 6:25:00 AM
Analyses]	Result	RL Qual	Units	DF	Date Analyzed
EPA ME	THOD 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.D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of 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

RL Rep

Page 2 of 3

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Client: Project:		Animas Environmo BMG Landfarm Su	ental S Ilfate i	Services n Groundwat	er						
Sample ID:	MB	Samp	Type: n	nblk	Tes	tCode: EF	PA Method	300.0: Anions			
Client ID:	PBW	Batc	h ID: F	R92324	F	RunNo: 92	2324				
Prep Date:		Analysis I	Date:	11/3/2022	S	SeqNo: 33	317471	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate		ND	0.5	0							
Sample ID:	LCS	Samp	Type: I	cs	Tes	tCode: EF	PA Method	300.0: Anions			
Client ID:	LCSW	Batc	h ID: F	R92324	F	RunNo: 92	2324				
Prep Date:		Analysis I	Date:	11/3/2022	S	SeqNo: 33	817479	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate		9.7	0.5	0 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 Quanitative 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

2211165

07-Nov-22

HALL ENVIR ANAL LABOR	ONMENTAL (SIS RATORY	Hall Environmenta All TEL: 505-345-397 Website: www.h	l Analysis Labo 4901 Hawk buquerque. NM 5 FAX: 505-34. allenvironment	nple Log-In Check List			
Client Name:	Animas Environmental Services	Work Order Numbe	r: 2211165		RcptNo:	1	
Received By:	Juan Rojas	11/3/2022 6:25:00 AM	4	Hunne g	~		
Completed By:	Tracy Casarrubias	11/3/2022 9:04:28 AM	t				
Reviewed By:	7R113122						
<u>Chain of Cus</u>	<u>tody</u>						
1. Is Chain of Co	ustody complete?		Yes 🗹	No 🗌	Not Present		
2. How was the	sample delivered?		Courier				
Log In 3. Was an attem	npt made to cool the samples?	>	Yes 🗹	No 🗌	NA 🗌		
4. Were all samp	oles received at a temperature	e of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗌		
5. Sample(s) in	proper container(s)?		Yes 🗹	No 🗌			
6. Sufficient sam	ple volume for indicated test(s)?	Yes 🗹	No 🗌			
7. Are samples (except VOA and ONG) proper	ly preserved?	Yes 🗹	No 🗌			
8. Was preserva	tive added to bottles?		Yes 🗌	No 🗹	NA 🗌		
9. Received at le	east 1 vial with headspace <1/	4" for AQ VOA?	Yes 🗌	No 🗌	NA 🗹		
10. Were any san	nple containers received brok	en?	Yes	No 🗹	# of preserved		
11. Does paperwo (Note discrepa	ork match bottle labels? ancies on chain of custody)		Yes 🗹	No 🗔	for pH: (<2 or	>12 unless noted)	
12. Are matrices of	correctly identified on Chain of	Custody?	Yes 🗹	No 🗔	Adjusted?		
13. Is it clear what	t analyses were requested?		Yes 🗹	No 🗌		0	
14. Were all holdi (If no, notify co	ng times able to be met? ustomer for authorization.)		Yes 🗹	No 📙	Checked by:	VG 11-3-22	
Special Handl	<u>ing (if applicable)</u>						
15.Was client no	tified of all discrepancies with	this order?	Yes 🗌	No 🗌	NA 🗹		
Person	Notified:	Date:					
By Who	om:	Via:	🗌 eMail 🔲	Phone 🗌 Fax	In Person		
Regard	ing:						
Client II	nstructions:						
16. Additional re	marks:						
17. <u>Cooler Infor</u>	mation						
Cooler No 1	Temp °C Condition S 1.2 Good Ye	seal Intact Seal No	Seal Date	Signed By	2 - and a first of the second s		

Released to Imaging: 12/23/2022 10:20:07 AM

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Received hval model 2022 to 2023 to 20				Turn-Around Time:						н	ALL	. EP	IVI	RO	NM	Page	e <u>15</u> 7	of 162
Client: Animas Environmental Services			Standard 🗆 Rush				antis		AP	IAI	LYS	IS	LAE	BO	AS	ГО	RY	
			· · · · · · · · · · · · · · · · · · ·	Project Name:						www	.halle	nviror	menta	al.com				
Mailing Address: P.O. Box 8			BMG Landfarm - sulfate in groundwater			4901 Hawkins NE - Albuquerque, NM 87109												
Farmington, NM 87499-0008			Project #:			Tel. 505-345-3975 Fax 505-345-4107												
Phone #: 720-537-6650			AES 040605			Analysis Request												
email or Fax#: <u>aledgerwood@animasenvironmental.com</u>			Project Manager:															
QA/QC Package:				Angela Ledgerwood Elizabeth McNally			0.0											
			Sampler:			- <u></u>		Ì										
□ NELAC □ Other			On Ice: _ Yes No			- Por			11									
□ EDD (Type)			# of Coolers: /			Met												
		ļ		Cooler Temp(inclu	Iding CF).	+0.1=1:2	<u>م</u>											
Date	Time	 Matrix	Sample Name	Container Type and #	Preservativ e Type	HEAL No.	Sulfate											
11-2-22	8:46	GW	MW-2	1 x 125-mL plastic no preservative	Cold	001	x											
11-2-22	9:15	GW	MW-3	1 x 125-mL plastic no preservative	Cold	002	×											
	<u> </u>					· · · · · · · · · · · · · · · · · · ·				┼─┢			+		+		+	
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		1						6 2					\rightarrow		-			\rightarrow
		-W	Trip-Blank	(2)-40 mL glass		- w												
Date:	Date: Time: Relinquished by:			Received by: Via: Date Time			Ren	Remarks:										
Date:	Time: Relinquished by			Received by: Via: Date Time			Please direct-bill this project to BWG.											
1/2/22	12 1811 / Mut Walles		1000rier 11/3/22 6:28															

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.

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Jones, Brad, EMNRD

From:	Jones, Brad, EMNRD
Sent:	Monday, December 19, 2022 4:06 PM
То:	bmg@bmgdrilling.com
Cc:	Elizabeth McNally; Angela Ledgerwood
Subject:	NM2-004 BMG Proposed Alternative Closure Standards for Treatment Zone Closure for Cells 2 and 3 denial letter
Attachments:	2022 1219 NM2-004 BMG Corp Proposed Alternative Closure Standards for Cells 2 and 3 Review signed.pdf

Matt, Elizabeth, and Angela,

Please see the attached. OCD has completed the review of the Proposed Alternative Closure Standards for Treatment Zone Closure for Cells 2 and 3. If you have any questions regarding this matter, please do not hesitate to contact me.

Sincerely,

Brad Jones

Brad A. Jones • Environmental Scientist Specialist - Advanced Environmental Bureau EMNRD - Oil Conservation Division 1220 S. Saint Francis Drive | Santa Fe, New Mexico 87505 (505) 469-7486 | brad.a.jones@emnrd.nm.gov www.emnrd.nm.gov

State of New Mexico Energy, Minerals and Natural Resources Department

Michelle Lujan Grisham Governor

Sarah Cottrell Propst Cabinet Secretary

Todd E. Leahy, JD, PhD Deputy Secretary

December 19, 2022

Adrienne Sandoval Director, Oil Conservation Division



Mr. Matt Dimond Benson-Montin-Greer Drilling Corp. 4900 College Boulevard Farmington, New Mexico 87402 <u>bmg@bmgdrilling.com</u>

RE: Denial of Alternative Closure Standards for Treatment Zone Closure for Cells 2 and 3 Benson-Montin-Greer Drilling Corp. (OGRID 2096) Permit Number: NM2-004 Location: NW/4, NW/4 of Section 20, Township 25 North, Range 1 East, NMPM Rio Arriba County, New Mexico

Dear Mr. Dimond:

The Oil Conservation Division (OCD) has completed its review of Benson-Montin-Greer Drilling Corp's (BMG) request for Proposed Alternative Closure Standards for Treatment Zone Closure for Cells 2 and 3, dated November 14, 2022, for the BMG Landfarm under permit NM2-004. OCD is denying BMG's request for the proposed alternative closure standards for the treatment zone closure for Cells 2 and 3 since it was not presented as an exception request as part of a closure and post-closure plan submittal.

OCD's review of this request resulted in a December 12, 2022 Microsoft Teams meeting with Animas Environmental Services LLC (AES) representatives Elizabeth McNally and Angela Ledgerwood. During the meeting, the following items were requested by OCD:

 BMG/AES must submit a sampling plan to OCD for OCD's review and consideration of approval, to address all the detected unauthorized releases of TPH, BTEX, and chlorides from the 2014 to present vadose zone sampling events. The sampling plan must demonstrate how BMG/AES will complete the release response sampling required of 19.15.36.15.E(5) NMAC for the historical unauthorized vadose zone releases from 2014 to present. The additional sampling and analysis required of 19.15.36.15.E(5) NMAC should Benson-Montin-Greer Drilling Corp. NM2-004 December 19, 2022 Page 2 of 3

> focus on assessing the horizontal extent of each detected unauthorized release of TPH, BTEX, and chloride to determine if additional constituents are associated with each release location. The plan should identify the spacing of the additional sample locations from the detected release location. If BMG/AES considers assessing groups of detected releases, due to their proximity to each other, then the plan should include a protocol that explains the logic of the approach for the consideration of the placement of the additional samples required by 19.15.36.15.E(5) NMAC. As discussed in the December 12, 2022 meeting, the constituents must be analyzed at a reporting/method detection limit at or below the OCD approved background or PQL value to perform the assessment required of 19.15.36.15.E(5) NMAC. Please submit a sampling and analysis plan based upon the requirements of 19.15.36.15.E(5) NMAC to address the detected historical unauthorized vadose zone releases from 2014 to present as a stand-alone separate request through OCD Permitting as a "Non-Fee SWMF Submittal" for OCD's review and consideration of approval unless BMG is requesting a modification to an existing permit condition and/or OCD written approval.

Next, BMG/AES must submit a closure/post-closure plan to OCD for OCD's review and consideration of approval, based upon the closure conditions of existing Permit NM2-004, the transitional provision of 19.15.36.20.A NMAC, and the remaining applicable closure and post-closure provisions of 19.15.36 NMAC to pursue the closure of the landfarming area if it is seeking partial closure of the surface waste management facility. Please submit the required closure notice, closure/post-closure plan, and proposed schedule as a stand-alone separate request through OCD Permitting as a "Non-Fee SWMF Submittal" for OCD's review and consideration of approval, unless BMG is requesting a modification to an existing permit condition and/or OCD written approval. Please keep in mind that an exception request to a regulatory requirement must demonstrate that the proposed alternative provides equivalent protection of fresh water, public health, and the environment to the regulatory requirement in which the exception is being requested.

Please note, any request for an exception to, waiver of, or change to a numerical standard provided in 19.15.36 NMAC, such as the treatment zone closure performance standards specified in Paragraphs (1-4) of 19.15.36.15.F NMAC is considered a major modification as defined in 19.15.36.7.B(9) NMAC. BMG must submit such requests through OCD Permitting as a "SWMF Major Modification (C-137B)" submittal for OCD's review and consideration of approval.

OCD wishes the clarify that the treatment zone soils in Cells 1 and 4 *have not met the closure criteria* specified in 19.15.36.15.F NMAC due to not having an OCD approved closure and postclosure plan in place prior to implementing closure activities and to performing an incomplete assessment of the treatment zone results. This was addressed in OCD's review of the 2021 Landfarm Monitoring and Sampling Report and Notice of Treatment Zone Cell Closure for Cell 1 and 4, dated April 15, 2022.

Please submit a sampling and analysis plan based upon the requirements of 19.15.36.15.E(5) NMAC to address the detected historical unauthorized vadose zone releases from 2014 to present and

Benson-Montin-Greer Drilling Corp. NM2-004 December 19, 2022 Page 3 of 3

then submit the required closure notice, closure and post closure plan, and proposed closure schedule as requested by OCD during the December 12, 2022 meeting with AES.

If there are any questions regarding this matter, please do not hesitate to contact me at (505) 469-7486 or <u>brad.a.jones@state.nm.us</u>.

Respectfully,

Brad A. Jones Environmental Specialist

Cc: Elizabeth McNally, AES, <u>emcnally@animasenvironmental.com</u> Angela Ledgerwood, AES, <u>aledgerwood@animasenvironmental.com</u>

District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

Operator:

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

4900 College Blvd.

Farmington, NM 87402

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Action 161035

CONDITIONS OGRID: BENSON-MONTIN-GREER DRILLING CORP 2096

Action Number 161035 Action Type: [C-137] Non-Fee SWMF Submittal (SWMF NON-FEE SUBMITTAL)

CONDITIONS						
Created By	Condition	Condition Date				
bjones	OCD emailed the review/denial letter to Matt Dimond (BMG) and Beth McNally and Angela Ledgerwood (AES) on December 19, 2022. The emailed review/denial is attached to the request as OCD's response. If you have any questions regarding this matter, please do not hesitate to contact me.	12/23/2022				