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February 24, 2023

James Hix
Colorado Oil & Gas Conservation Commission
1120 Lincoln Street, Suite 801
Denver, CO 80203

**RE: Soil Boring Investigation Results
Margaret Spaulding Centralized Tank Battery (Facility ID #: 427281)
Lone Pine Field, Jackson County, Colorado**

Dear Mr. Hix,

Cottonwood Consulting LLC (Cottonwood) is pleased to provide you with the results of a soil boring investigation conducted at the Margaret Spaulding Centralized Tank Battery (Facility ID#: 427281) located in the Lone Pine Field in Jackson County, Colorado (Figure 1). Details regarding the background, methodology, and associated results are summarized below.

Background

The Margaret Spaulding Centralized Tank Battery (CTB) is located in the southwest quarter of the southeast quarter of Section (Sec) 28, Township (T) 9 North (N), Range (R) 81 West (W), 6th Principal Meridian (P.M.) in Jackson County, Colorado. The Margaret Spaulding CTB was constructed to process and store oil, gas, and produced water from 15 wells. The CTB was located adjacent to a produced water treatment system consisting of a series of five pits that skimmed oil and aerated produced water to drive off volatile organic compounds (VOCs) and eventually discharge treated water to Spring Gulch, a tributary of Hell Creek, and eventually the North Platte River.

The site was most recently operated by CM Production LLC and is now part of the Colorado Oil and Gas Conservation Commission (COGCC) Orphan Well Program (OWP). The COGCC decommissioned the site and plugged the wells in 2021. During the process, soil samples were collected and impacts were identified at levels above COGCC Table 915-1 standards. The impacts are most likely associated with crude oil and produced water releases that have occurred over time from production equipment and on-location flowlines at the sites. Cottonwood was retained by the COGCC to conduct a soil boring investigation to delineate the extent of impacts at the Margaret Spaulding CTB. The work was conducted under approved COGCC Form 27's and the remediation project number is REM #17912.

Methodology

HRL Compliance Solutions, Inc. (HRL) and Cottonwood conducted drilling activities at the Margaret Spaulding CTB between October 17 and 25, 2022. At the Margaret Spaulding CTB, a grid was set up on 25-foot centers and a total of 58 soil borings were advanced across the site, including three borings within the overflow treater pit. (Figure 2).

All soil borings were advanced using a direct push Geoprobe® drilling rig. Cottonwood prepared geologic logs of the boreholes and screened soil continuously using visual/olfactory observations and a Tiger LT® Photoionization Detector (PID). The geologic boring logs are included as Attachments 1 and a photographic log is included as Attachment 2.

Soil samples were collected for laboratory analysis using judgmental sampling, to search for “hot spots,” identify areas and layers of contamination, and estimated prevalence of contaminants. Additional samples from intervals indicating no signs of impacts were also submitted for laboratory analysis to define the horizontal and vertical extent of impacts. Background samples were also collected from undisturbed surrounding areas in the vicinity of the sites.

Soil samples were collected by transferring soil into one-gallon plastic bags and laboratory provided 4-ounce jars, and placing the samples in a cooler with ice. Samples were submitted with completed chain-of-custody to Green Analytical Laboratories (GAL) of Durango, Colorado for analysis of Total Petroleum Hydrocarbons (TPH) by Environmental Protection Agency Method 8015B. Samples collected from less than 5 feet (ft) below ground surface (bgs) that exceeded 500 milligrams per kilogram (mg/kg) of TPH were also analyzed for the remainder of COGCC Table 915-1 constituents. Samples collected from greater than 5 ft bgs that exceeded 500 mg/kg of TPH were analyzed for COGCC Table 915-1 organic compounds only. Background samples were analyzed for COGCC Table 915-1 inorganic compounds only. All results were compared to the COGCC Table 915-1 Standards.

Results

Results of the soil boring investigation indicate the presence of clay and sandy soils at the sites. A gravel and cobble layer was encountered underlying the clay and sand. Refusal was met in all soil borings at depths ranging from 5 to 24 ft bgs due to the presence of cobble. Groundwater was not encountered in any of the soil borings.

A total of 72 soil samples, including five background samples, were collected at the Margaret Spaulding CTB, including the overflow treater pit located south of the main facility. TPH concentrations exceeded the COGCC standard of 500 mg/kg in 21 of the samples. The depth of these impacts ranged from the ground surface to 24 ft bgs. TPH was detected at concentrations below the COGCC standard in 14 of the samples. TPH was not detected in 32 of the samples.

Certain samples that failed for TPH also failed for a variety of other organic and inorganic compounds based on the COGCC Table 915-1 Standards.

Within the overflow treater pit, two of the three samples exceeded the COGCC standard for TPH. The depth of these impacts ranged from the ground surface to 7.5 ft bgs. Refusal was met within the overflow treater pit in all three boreholes at depths of 5 ft bgs and 7.5 ft bgs. Table 1 summarizes the sample results for the Margaret Spaulding CTB, including the overflow treater pit, relative to the COGCC Table 915-1 standards and the laboratory analytical reports are included as Attachment 3.

Impacts at the Margaret Spaulding CTB were concentrated in the center of the site, in the vicinity of the former tank batteries and processing equipment, and in the overflow treater pit (Figure 3). Crude oil was observed seeping from the soil in certain portions of the site as indicated on the geologic boring logs and shown on the photographic log.

Based on the soil borings and laboratory analytical results, there are approximately 8,496 cubic yards (yd³) of soil in exceedance of the COGCC TPH standard at the CTB and approximately 521 yd³ at the overflow treater pit. This estimate assumes an impacted area measuring approximately 9,558 square ft (ft²) and impacts from the ground surface to 24 ft bgs at the CTB. The estimate for the overflow treater pit assumes an impacted area measuring approximately 1,876 ft² and impacts from the ground surface to 7.5 ft bgs.

Conclusions

Results of the investigation indicate that there are approximately 8,496 yd³ of impacted soil in exceedance of the COGCC Table 915-1 TPH standard in the vicinity of the tank batteries and processing equipment at the Margaret Spaulding CTB site. There are an additional 521 yd³ of impacted soil in exceedance of the TPH standard at the overflow treater pit; however, additional investigation might be warranted due to refusal met in the soil borings within the pit.

Should you have any questions, please do not hesitate to contact me at 970-764-7356 or ksiesser@cottonwoodconsulting.com. We appreciate the opportunity to provide services to the COGCC.

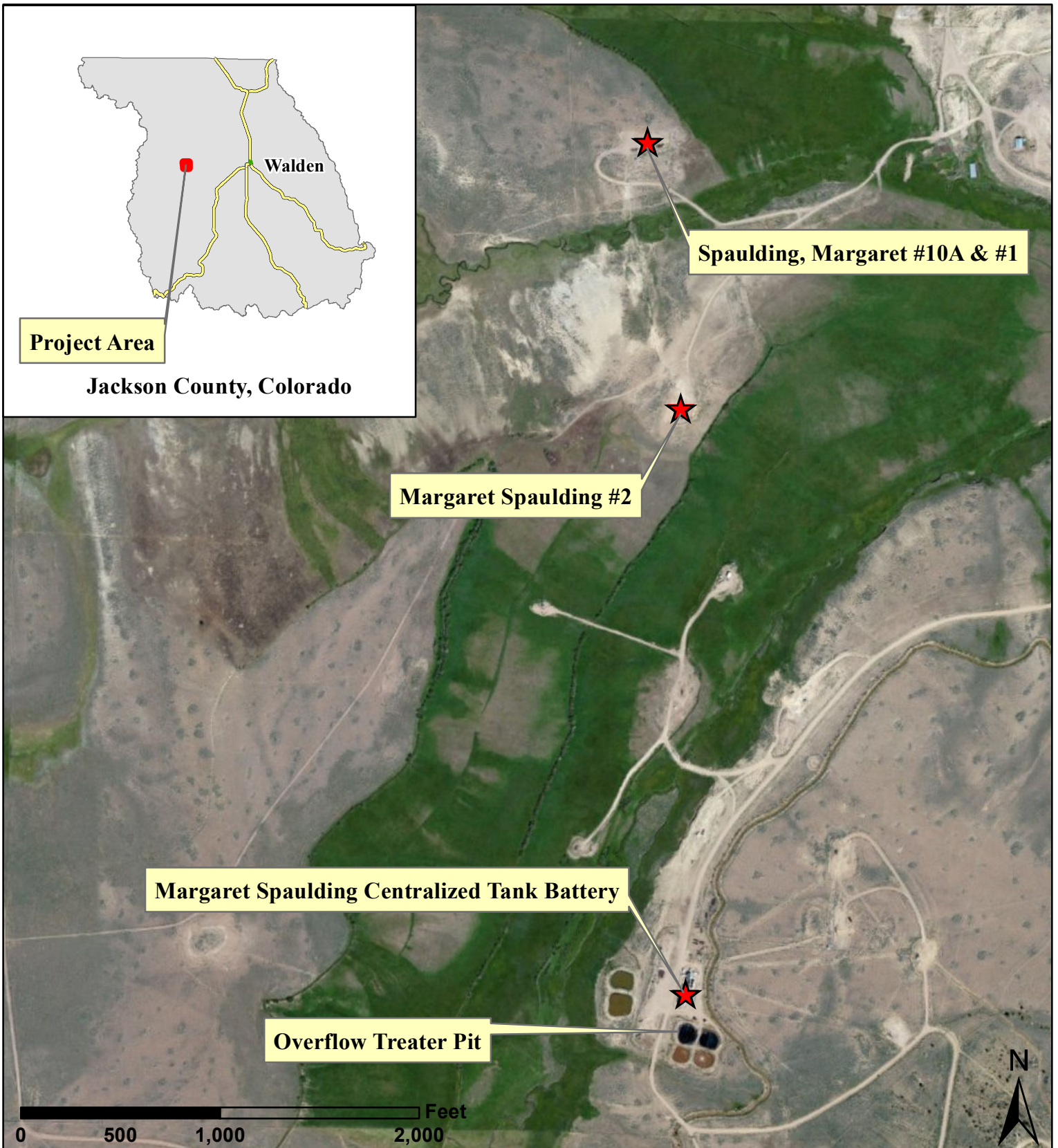
Sincerely,



Kyle G. Siesser, P.G.
Cottonwood Consulting, LLC

Attachments: Figure 1 – Project Map
Figure 2 – Soil Boring Map
Figure 3 – Approximate Impact Extent Map
Table 1 – Soil Sampling Results
Attachment 1 – Geologic Boring Logs
Attachment 2 – Photographic Log
Attachment 3 – Laboratory Analytical Reports

FIGURE 1



Legend

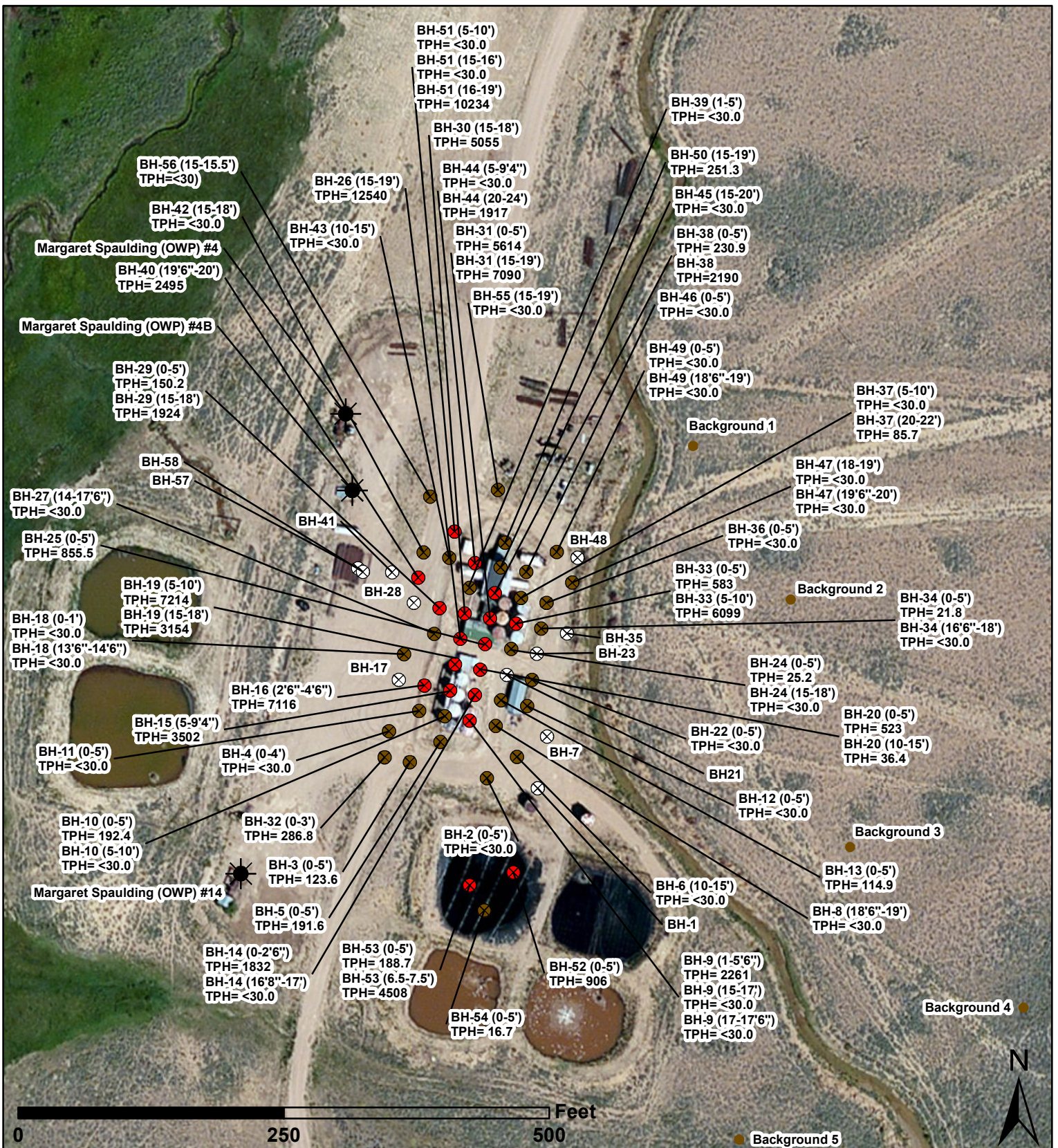
★ Site Location



Mapping by: K. O'Brien, 2/2/2023
 Coordinate System:
 NAD 1983 UTM Zone 13 N
 Location: Sec 28 T09N R81W
 Jackson County, CO

Figure 1
Lone Pine Site Location
Project Map
Colorado Oil & Gas
Conservation Commission

FIGURE 2



BH-51 (5-10')
TPH= <30.0
BH-51 (15-16')
TPH= <30.0
BH-51 (16-19')
TPH= 10234

BH-39 (1-5')
TPH= <30.0

BH-56 (15-15.5')
TPH= <30.0

BH-26 (15-19')
TPH= 12540

BH-30 (15-18')
TPH= 5055
BH-44 (5-9'4")
TPH= <30.0
BH-44 (20-24')
TPH= 1917

BH-50 (15-19')
TPH= 251.3

BH-42 (15-18')
TPH= <30.0

BH-43 (10-15')
TPH= <30.0

BH-31 (0-5')
TPH= 5614
BH-31 (15-19')
TPH= 7090

BH-45 (15-20')
TPH= <30.0

Margaret Spaulding (OWP) #4

BH-40 (19'6"-20')
TPH= 2495

Margaret Spaulding (OWP) #4B

BH-29 (0-5')
TPH= 150.2
BH-29 (15-18')
TPH= 1924

BH-55 (15-19')
TPH= <30.0

BH-49 (0-5')
TPH= <30.0
BH-49 (18'6"-19')
TPH= <30.0

BH-37 (5-10')
TPH= <30.0
BH-37 (20-22')
TPH= 85.7

Background 1

BH-58

BH-57

BH-47 (18-19')
TPH= <30.0
BH-47 (19'6"-20')
TPH= <30.0

BH-27 (14-17'6")
TPH= <30.0

BH-41

BH-36 (0-5')
TPH= <30.0

Background 2

BH-19 (5-10')
TPH= 7214
BH-19 (15-18')
TPH= 3154

BH-33 (0-5')
TPH= 583
BH-33 (5-10')
TPH= 6099

BH-34 (0-5')
TPH= 21.8
BH-34 (16'6"-18')
TPH= <30.0

BH-18 (0-1')
TPH= <30.0
BH-18 (13'6"-14'6")
TPH= <30.0

BH-17

BH-24 (0-5')
TPH= 25.2
BH-24 (15-18')
TPH= <30.0

BH-20 (0-5')
TPH= 523
BH-20 (10-15')
TPH= 36.4

BH-15 (5-9'4")
TPH= 3502

BH-16 (2'6"-4'6")
TPH= 7116

BH-22 (0-5')
TPH= <30.0

BH-11 (0-5')
TPH= <30.0

BH-4 (0-4')
TPH= <30.0

BH-7

BH-12 (0-5')
TPH= <30.0

Background 3

BH-10 (0-5')
TPH= 192.4
BH-10 (5-10')
TPH= <30.0

BH-32 (0-3')
TPH= 286.8

BH-2 (0-5')
TPH= <30.0

BH-13 (0-5')
TPH= 114.9

Margaret Spaulding (OWP) #14

BH-3 (0-5')
TPH= 123.6

BH-6 (10-15')
TPH= <30.0

BH-8 (18'6"-19')
TPH= <30.0

BH-14 (0-2'6")
TPH= 1832
BH-14 (16'8"-17')
TPH= <30.0

BH-53 (0-5')
TPH= 188.7
BH-53 (6.5-7.5')
TPH= 4508

BH-52 (0-5')
TPH= 906

BH-9 (1-5'6")
TPH= 2261
BH-9 (15-17')
TPH= <30.0
BH-9 (17-17'6")
TPH= <30.0

Background 4

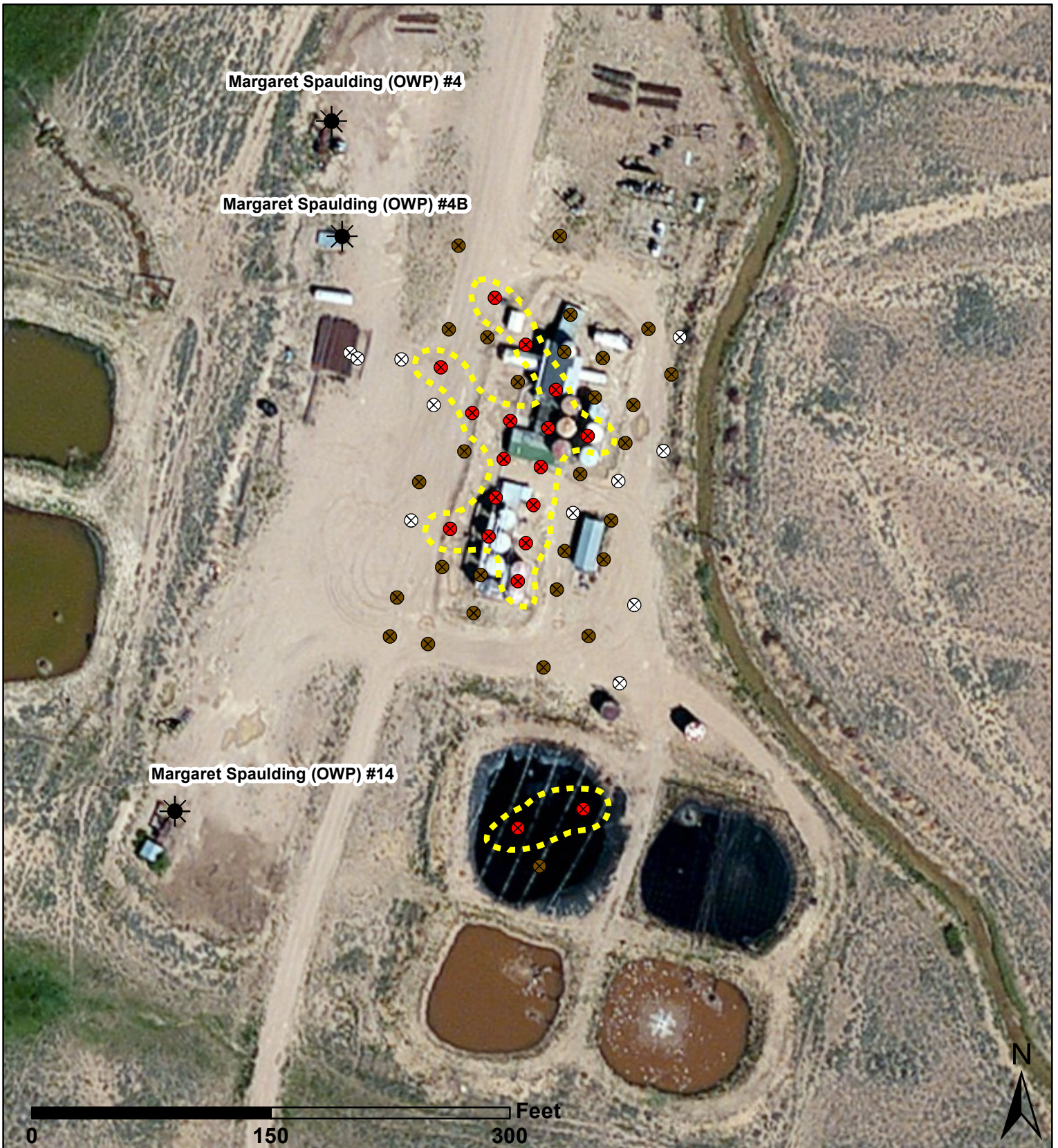
BH-54 (0-5')
TPH= 16.7

Background 5

0 250 500 Feet



FIGURE 3



Legend

- ⊗ Borehole
- ⊗ Borehole/Soil Sample (TPH Values Exceed COGCC Standard)
- ⊗ Borehole/Soil Sample (TPH Values Below COGCC Standard)
- ☀ Plugged & Abandoned Well
- ⊗ Approximate Extent of Impact



Mapping by: K. O'Brien, 2/24/2023

Coordinate System:

NAD 1983 UTM Zone 13 N

Location: SWSE Sec 28 T9N R81W 6th PM
Jackson County, CO

Figure 3
Margaret Spaulding
Centralized Tank Battery
Approximate Impact Extent Map
Colorado Oil & Gas
Conservation Commission

TABLE 1

Table 1
Soil Sampling Results
Margaret Spaulding Centralized Tank Battery
Lone Pine Investigation
COGCC

Parameter	BH-2 (0-5')	BH-3 (0-5')	BH-4 (0-4')	BH-5 (0-5')	BH-6 (10-15')	COGCC Table 915-1 Standard	Units
	10/18/2022	10/18/2022	10/18/2022	10/18/2022	10/18/2022		
Latitude/Longitude	40.717674, -106.498321	40.717711, -106.498583	40.717723, -106.498669	40.717790, -106.498656	40.717765, -106.498481	NA	NA
Laboratory ID	2210207-01	2210207-02	2210207-03	2210207-04	2210207-05	NA	NA
Depth	0-5	0-5	0-4	0-5	10-15	NA	feet bgs
PID	0.3	38.5	0.8	0.3	0.3	NA	ppm
Conductivity	-	-	-	-	-	<4	mmhos/cm
pH	-	-	-	-	-	6-8.3	pH units
SAR	-	-	-	-	-	<6	no units
Calcium	-	-	-	-	-	NA	mg/L
Magnesium	-	-	-	-	-	NA	mg/L
Sodium	-	-	-	-	-	NA	mg/L
Arsenic	-	-	-	-	-	0.68 or 1.25x BG	mg/kg
Barium	-	-	-	-	-	15000 or 1.25x BG	mg/kg
Cadmium	-	-	-	-	-	71 or 1.25x BG	mg/kg
Chromium (VI)	-	-	-	-	-	0.3 or 1.25x BG	mg/kg
Total Chromium	-	-	-	-	-	NA	mg/kg
Copper	-	-	-	-	-	3100 or 1.25x BG	mg/kg
Lead	-	-	-	-	-	400 or 1.25x BG	mg/kg
Nickel	-	-	-	-	-	1500 or 1.25x BG	mg/kg
Selenium	-	-	-	-	-	390 or 1.25x BG	mg/kg
Silver	-	-	-	-	-	390 or 1.25x BG	mg/kg
Zinc	-	-	-	-	-	23000 or 1.25x BG	mg/kg
Boron	-	-	-	-	-	2	mg/L
TPH (GRO)	<10.0	<10.0	<10.0	<10.0	<10.0	NA	mg/kg
TPH (DRO)	<10.0	84.6	<10.0	112	<10.0	NA	mg/kg
TPH (EXT DRO)	<10.0	39.0	<10.0	79.6	<10.0	NA	mg/kg
Total TPH	<30.0	123.6	<30.0	191.6	<30.0	500	mg/kg
Benzene	-	-	-	-	-	1.2	mg/kg
Toluene	-	-	-	-	-	490	mg/kg
Ethylbenzene	-	-	-	-	-	5.8	mg/kg
Total Xylenes	-	-	-	-	-	58	mg/kg
1,3,5-trimethylbenzene	-	-	-	-	-	27	mg/kg
1,2,4-trimethylbenzene	-	-	-	-	-	30	mg/kg
Naphthalene	-	-	-	-	-	2	mg/kg
2-methylnaphthalene	-	-	-	-	-	24	mg/kg
1-methylnaphthalene	-	-	-	-	-	18	mg/kg
Acenaphthene	-	-	-	-	-	360	mg/kg
Fluorene	-	-	-	-	-	240	mg/kg
Anthracene	-	-	-	-	-	1800	mg/kg
Fluoranthene	-	-	-	-	-	240	mg/kg
Pyrene	-	-	-	-	-	180	mg/kg
Benzo(a)anthracene	-	-	-	-	-	1.1	mg/kg
Chrysene	-	-	-	-	-	110	mg/kg
Benzo(b)fluoranthene	-	-	-	-	-	1.1	mg/kg
Benzo(k)fluoranthene	-	-	-	-	-	11	mg/kg
Benzo(a)pyrene	-	-	-	-	-	0.11	mg/kg
Indeno(1,2,3-cd)pyrene	-	-	-	-	-	1.1	mg/kg
Dibenz(a,h)anthracene	-	-	-	-	-	0.11	mg/kg

Notes:

PID - Photoionization Detector
SAR - Sodium Adsorption Ratio
BTEX - Benzene, Toluene, Ethylbenzene, & Total Xylenes
TPH - Total Petroleum Hydrocarbons
GRO - Gasoline Range Organics
DRO - Diesel Range Organics
EXT - Extended
NA - Not Applicable
ppm - parts per million
BG - background

bgs - below ground surface
mmhos/cm - millihos per centimeter
mg/L - milligrams per liter
mg/kg - milligrams per kilogram
COGCC - Colorado Oil & Gas Conservation Commission
* - Laboratory detection limit exceeds COGCC Standard
Bold values exceed COGCC Standard
Values reported below the laboratory detection limit are considered zero in Total TPH calculations.
** - Value detected below the reporting limit; result is an estimate.
*** - Concentration is an estimated value above the calibration range of the instrument.

Table 1 (continued)
Soil Sampling Results
Margaret Spaulding Centralized Tank Battery
Lone Pine Investigation
COGCC

Parameter	BH-8 (18'6"-19')	BH-9 (1-5'6")	BH-9 (15-17')	BH-9 (17-17'6")	BH-10 (0-5')	COGCC Table 915-1 Standard	Units
	10/18/2022	10/18/2022	10/18/2022	10/18/2022	10/18/2022		
Latitude/Longitude	40.717783, -106.498118	40.717808, -106.498293	40.717808, -106.498293	40.717808, -106.498293	40.717821, -106.498382	NA	NA
Laboratory ID	2210207-06	2210207-07	2210207-08	2210207-09	2210207-10	NA	NA
Depth	18.5-19	1-5.5	15-17	17-17.5	0-5	NA	feet bgs
PID	4.5	941.6	31.8	0.6	2.8	NA	ppm
Conductivity	-	0.600	-	-	-	<4	mmhos/cm
pH	-	7.06	-	-	-	6-8.3	pH units
SAR	-	0.83	-	-	-	<6	no units
Calcium	-	88.8	-	-	-	NA	mg/L
Magnesium	-	14.5	-	-	-	NA	mg/L
Sodium	-	32.0	-	-	-	NA	mg/L
Arsenic	-	2.69	-	-	-	0.68 or 1.25x BG	mg/kg
Barium	-	115	-	-	-	15000 or 1.25x BG	mg/kg
Cadmium	-	<5.00	-	-	-	71 or 1.25x BG	mg/kg
Chromium (VI)	-	0.304	-	-	-	0.3 or 1.25x BG	mg/kg
Total Chromium	-	12.9	-	-	-	NA	mg/kg
Copper	-	11.1	-	-	-	3100 or 1.25x BG	mg/kg
Lead	-	<10.0	-	-	-	400 or 1.25x BG	mg/kg
Nickel	-	7.11	-	-	-	1500 or 1.25x BG	mg/kg
Selenium	-	<20.0	-	-	-	390 or 1.25x BG	mg/kg
Silver	-	<1.00	-	-	-	390 or 1.25x BG	mg/kg
Zinc	-	38.8	-	-	-	23000 or 1.25x BG	mg/kg
Boron	-	<1.20	-	-	-	2	mg/L
TPH (GRO)	<10.0	393	<10.0	<10.0	<10.0	NA	mg/kg
TPH (DRO)	<10.0	1460	<10.0	<10.0	142	NA	mg/kg
TPH (EXT DRO)	<10.0	408	<10.0	<10.0	50.4	NA	mg/kg
Total TPH	<30.0	2261	<30.0	<30.0	192.4	500	mg/kg
Benzene	-	<0.250	-	-	-	1.2	mg/kg
Toluene	-	<0.250	-	-	-	490	mg/kg
Ethylbenzene	-	<0.250	-	-	-	5.8	mg/kg
Total Xylenes	-	4.71	-	-	-	58	mg/kg
1,3,5-trimethylbenzene	-	16.2	-	-	-	27	mg/kg
1,2,4-trimethylbenzene	-	8.48	-	-	-	30	mg/kg
Naphthalene	-	1.01	-	-	-	2	mg/kg
2-methylnaphthalene	-	4.32	-	-	-	24	mg/kg
1-methylnaphthalene	-	3.71	-	-	-	18	mg/kg
Acenaphthene	-	<0.235	-	-	-	360	mg/kg
Fluorene	-	0.835	-	-	-	240	mg/kg
Anthracene	-	<0.172	-	-	-	1800	mg/kg
Fluoranthene	-	<0.185	-	-	-	240	mg/kg
Pyrene	-	0.371**	-	-	-	180	mg/kg
Benzo(a)anthracene	-	0.545	-	-	-	1.1	mg/kg
Chrysene	-	<0.172	-	-	-	110	mg/kg
Benzo(b)fluoranthene	-	<0.192	-	-	-	1.1	mg/kg
Benzo(k)fluoranthene	-	<0.157	-	-	-	11	mg/kg
Benzo(a)pyrene	-	<0.182*	-	-	-	0.11	mg/kg
Indeno(1,2,3-cd)pyrene	-	<0.168	-	-	-	1.1	mg/kg
Dibenz(a,h)anthracene	-	<0.186*	-	-	-	0.11	mg/kg

Notes:

PID - Photoionization Detector
SAR - Sodium Adsorption Ratio
BTEX - Benzene, Toluene, Ethylbenzene, & Total Xylenes
TPH - Total Petroleum Hydrocarbons
GRO - Gasoline Range Organics
DRO - Diesel Range Organics
EXT - Extended
NA - Not Applicable
ppm - parts per million
BG - background

bgs - below ground surface
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mg/L - milligrams per liter
mg/kg - milligrams per kilogram
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Values reported below the laboratory detection limit are considered zero in Total TPH calculations.
** - Value detected below the reporting limit; result is an estimate.
*** - Concentration is an estimated value above the calibration range of the instrument.

Table 1 (continued)
Soil Sampling Results
Margaret Spaulding Centralized Tank Battery
Lone Pine Investigation
COGCC

Parameter	BH-10 (5-10')	BH-11 (0-5')	BH-12 (0-5')	BH-13 (0-5')	BH-14 (0-2'6")	COGCC Table 915-1 Standard	Units
	10/18/2022	10/18/2022	10/19/2022	10/19/2022	10/19/2022		
Latitude/Longitude	40.717821, -106.498382	40.717831, -106.498467	40.717844, -106.498554	40.717861, -106.498188	40.717875, -106.498277	NA	NA
Laboratory ID	2210207-11	2210207-12	2210207-13	2210207-14	2210207-15	NA	NA
Depth	5-10	0-5	0-5	0-5	0-2.5	NA	feet bgs
PID	0.1	0.1	0.0	0.9	0.8	NA	ppm
Conductivity	-	-	-	-	0.822	<4	mmhos/cm
pH	-	-	-	-	8.10	6-8.3	pH units
SAR	-	-	-	-	9.22	<6	no units
Calcium	-	-	-	-	18.8	NA	mg/L
Magnesium	-	-	-	-	4.06	NA	mg/L
Sodium	-	-	-	-	169	NA	mg/L
Arsenic	-	-	-	-	2.72	0.68 or 1.25x BG	mg/kg
Barium	-	-	-	-	121	15000 or 1.25x BG	mg/kg
Cadmium	-	-	-	-	<5.00	71 or 1.25x BG	mg/kg
Chromium (VI)	-	-	-	-	0.574	0.3 or 1.25x BG	mg/kg
Total Chromium	-	-	-	-	12.0	NA	mg/kg
Copper	-	-	-	-	19.1	3100 or 1.25x BG	mg/kg
Lead	-	-	-	-	<10.0	400 or 1.25x BG	mg/kg
Nickel	-	-	-	-	6.76	1500 or 1.25x BG	mg/kg
Selenium	-	-	-	-	<20.0	390 or 1.25x BG	mg/kg
Silver	-	-	-	-	<1.00	390 or 1.25x BG	mg/kg
Zinc	-	-	-	-	70.4	23000 or 1.25x BG	mg/kg
Boron	-	-	-	-	<1.20	2	mg/L
TPH (GRO)	<10.0	<10.0	<10.0	<10.0	<10.0	NA	mg/kg
TPH (DRO)	<10.0	<10.0	<10.0	95.4	980	NA	mg/kg
TPH (EXT DRO)	<10.0	<10.0	<10.0	19.5	852	NA	mg/kg
Total TPH	<30.0	<30.0	<30.0	114.9	1832	500	mg/kg
Benzene	-	-	-	-	<0.0250	1.2	mg/kg
Toluene	-	-	-	-	<0.0250	490	mg/kg
Ethylbenzene	-	-	-	-	<0.0250	5.8	mg/kg
Total Xylenes	-	-	-	-	<0.0750	58	mg/kg
1,3,5-trimethylbenzene	-	-	-	-	<0.0250	27	mg/kg
1,2,4-trimethylbenzene	-	-	-	-	<0.0250	30	mg/kg
Naphthalene	-	-	-	-	<0.153	2	mg/kg
2-methylnaphthalene	-	-	-	-	<0.226	24	mg/kg
1-methylnaphthalene	-	-	-	-	<0.161	18	mg/kg
Acenaphthene	-	-	-	-	<0.235	360	mg/kg
Fluorene	-	-	-	-	<0.142	240	mg/kg
Anthracene	-	-	-	-	<0.172	1800	mg/kg
Fluoranthene	-	-	-	-	<0.185	240	mg/kg
Pyrene	-	-	-	-	<0.132	180	mg/kg
Benzo(a)anthracene	-	-	-	-	<0.230	1.1	mg/kg
Chrysene	-	-	-	-	<0.172	110	mg/kg
Benzo(b)fluoranthene	-	-	-	-	<0.192	1.1	mg/kg
Benzo(k)fluoranthene	-	-	-	-	<0.157	11	mg/kg
Benzo(a)pyrene	-	-	-	-	<0.182*	0.11	mg/kg
Indeno(1,2,3-cd)pyrene	-	-	-	-	<0.168	1.1	mg/kg
Dibenz(a,h)anthracene	-	-	-	-	<0.186*	0.11	mg/kg

Notes:

PID - Photoionization Detector
SAR - Sodium Adsorption Ratio
BTEX - Benzene, Toluene, Ethylbenzene, & Total Xylenes
TPH - Total Petroleum Hydrocarbons
GRO - Gasoline Range Organics
DRO - Diesel Range Organics
EXT - Extended
NA - Not Applicable
ppm - parts per million
BG - background

bgs - below ground surface
mmhos/cm - millihos per centimeter
mg/L - milligrams per liter
mg/kg - milligrams per kilogram
COGCC - Colorado Oil & Gas Conservation Commission
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Bold values exceed COGCC Standard
Values reported below the laboratory detection limit are considered zero in Total TPH calculations.
** - Value detected below the reporting limit; result is an estimate.
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Table 1 (continued)
Soil Sampling Results
Margaret Spaulding Centralized Tank Battery
Lone Pine Investigation
COGCC

Parameter	BH-14 (16'8"-17')	BH-15 (5-9'4")	BH-16 (2'6"-4'6")	BH-18 (0-1')	BH-18 (13'6"-14'6")	COGCC Table 915-1 Standard	Units
	10/19/2022	10/19/2022	10/19/2022	10/19/2022	10/19/2022		
Latitude/Longitude	40.717875, -106.498277	40.717887, -106.498366	40.717898, -106.498450	40.717923, -106.498626	40.717923, -106.498626	NA	NA
Laboratory ID	2210207-16	2210207-17	2210207-18	2210207-19	2210207-20	NA	NA
Depth	16.6-17	5-9.3	2.5-4.5	0-1	13.5-14.5	NA	feet bgs
PID	0.8	344.1	496.8	0.5	1.1	NA	ppm
Conductivity	-	-	0.522	-	-	<4	mmhos/cm
pH	-	-	7.35	-	-	6-8.3	pH units
SAR	-	-	1.87	-	-	<6	no units
Calcium	-	-	44.0	-	-	NA	mg/L
Magnesium	-	-	11.4	-	-	NA	mg/L
Sodium	-	-	53.9	-	-	NA	mg/L
Arsenic	-	-	2.89	-	-	0.68 or 1.25x BG	mg/kg
Barium	-	-	180	-	-	15000 or 1.25x BG	mg/kg
Cadmium	-	-	<5.00	-	-	71 or 1.25x BG	mg/kg
Chromium (VI)	-	-	<0.250	-	-	0.3 or 1.25x BG	mg/kg
Total Chromium	-	-	15.0	-	-	NA	mg/kg
Copper	-	-	12.0	-	-	3100 or 1.25x BG	mg/kg
Lead	-	-	<10.0	-	-	400 or 1.25x BG	mg/kg
Nickel	-	-	7.79	-	-	1500 or 1.25x BG	mg/kg
Selenium	-	-	<20.0	-	-	390 or 1.25x BG	mg/kg
Silver	-	-	<1.00	-	-	390 or 1.25x BG	mg/kg
Zinc	-	-	37.8	-	-	23000 or 1.25x BG	mg/kg
Boron	-	-	<1.20	-	-	2	mg/L
TPH (GRO)	<10.0	208	596	<10.0	<10.0	NA	mg/kg
TPH (DRO)	<10.0	2610	5170	<10.0	<10.0	NA	mg/kg
TPH (EXT DRO)	<10.0	684	1350	<10.0	<10.0	NA	mg/kg
Total TPH	<30.0	3502	7116	<30.0	<30.0	500	mg/kg
Benzene	-	0.344	<0.250	-	-	1.2	mg/kg
Toluene	-	0.817	<0.250	-	-	490	mg/kg
Ethylbenzene	-	1.65	<0.250	-	-	5.8	mg/kg
Total Xylenes	-	1.83	2.19	-	-	58	mg/kg
1,3,5-trimethylbenzene	-	9.04	3.74	-	-	27	mg/kg
1,2,4-trimethylbenzene	-	<0.250	4.25	-	-	30	mg/kg
Naphthalene	-	1.31	0.807	-	-	2	mg/kg
2-methylnaphthalene	-	7.58	3.18	-	-	24	mg/kg
1-methylnaphthalene	-	1.48	4.51	-	-	18	mg/kg
Acenaphthene	-	<0.235	<0.235	-	-	360	mg/kg
Fluorene	-	1.89	1.38	-	-	240	mg/kg
Anthracene	-	<0.172	<0.172	-	-	1800	mg/kg
Fluoranthene	-	<0.185	<0.185	-	-	240	mg/kg
Pyrene	-	0.685	0.624	-	-	180	mg/kg
Benzo(a)anthracene	-	<0.230	<0.230	-	-	1.1	mg/kg
Chrysene	-	1.06	0.893	-	-	110	mg/kg
Benzo(b)fluoranthene	-	0.212**	0.193**	-	-	1.1	mg/kg
Benzo(k)fluoranthene	-	<0.157	<0.157	-	-	11	mg/kg
Benzo(a)pyrene	-	<0.182*	<0.182*	-	-	0.11	mg/kg
Indeno(1,2,3-cd)pyrene	-	<0.168	<0.168	-	-	1.1	mg/kg
Dibenz(a,h)anthracene	-	<0.186*	<0.186*	-	-	0.11	mg/kg

Notes:

PID - Photoionization Detector
SAR - Sodium Adsorption Ratio
BTEX - Benzene, Toluene, Ethylbenzene, & Total Xylenes
TPH - Total Petroleum Hydrocarbons
GRO - Gasoline Range Organics
DRO - Diesel Range Organics
EXT - Extended
NA - Not Applicable
ppm - parts per million
BG - background

bgs - below ground surface
mmhos/cm - millihos per centimeter
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Bold values exceed COGCC Standard
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Table 1 (continued)
Soil Sampling Results
Margaret Spaulding Centralized Tank Battery
Lone Pine Investigation
COGCC

Parameter	BH-19 (5-10')	BH-19 (15-18')	BH-20 (0-5')	BH-20 (10-15')	BH-22 (0-5')	COGCC Table 915-1 Standard	Units
	10/19/2022	10/19/2022	10/19/2022	10/19/2022	10/19/2022		
Latitude/Longitude	40.717989, -106.498609	40.717989, -106.498609	40.717965, -106.498436	40.717965, -106.498436	40.717940, -106.498260	NA	NA
Laboratory ID	2210207-21	2210207-22	2210207-23	2210207-24	2210207-25	NA	NA
Depth	5-10	15-18	0-5	10-15	0-5	NA	feet bgs
PID	1553	1668	16.1	2.5	0.2	NA	ppm
Conductivity	-	-	0.496	-	-	<4	mmhos/cm
pH	-	-	7.27	-	-	6-8.3	pH units
SAR	-	-	0.80	-	-	<6	no units
Calcium	-	-	67.3	-	-	NA	mg/L
Magnesium	-	-	6.15	-	-	NA	mg/L
Sodium	-	-	25.7	-	-	NA	mg/L
Arsenic	-	-	2.56	-	-	0.68 or 1.25x BG	mg/kg
Barium	-	-	120	-	-	15000 or 1.25x BG	mg/kg
Cadmium	-	-	<5.00	-	-	71 or 1.25x BG	mg/kg
Chromium (VI)	-	-	0.364	-	-	0.3 or 1.25x BG	mg/kg
Total Chromium	-	-	14.1	-	-	NA	mg/kg
Copper	-	-	21.3	-	-	3100 or 1.25x BG	mg/kg
Lead	-	-	13.2	-	-	400 or 1.25x BG	mg/kg
Nickel	-	-	7.78	-	-	1500 or 1.25x BG	mg/kg
Selenium	-	-	<20.0	-	-	390 or 1.25x BG	mg/kg
Silver	-	-	<1.00	-	-	390 or 1.25x BG	mg/kg
Zinc	-	-	65.4	-	-	23000 or 1.25x BG	mg/kg
Boron	-	-	<1.20	-	-	2	mg/L
TPH (GRO)	1330	488	<10.0	<10.0	<10.0	NA	mg/kg
TPH (DRO)	4890	2170	254	10.4	<10.0	NA	mg/kg
TPH (EXT DRO)	994	496	269	26.0	<10.0	NA	mg/kg
Total TPH	7214	3154	523	36.4	<30.0	500	mg/kg
Benzene	<0.250	<0.250	<0.0250	-	-	1.2	mg/kg
Toluene	<0.250	<0.250	<0.0250	-	-	490	mg/kg
Ethylbenzene	3.71	3.25	<0.0250	-	-	5.8	mg/kg
Total Xylenes	2.11	0.870	<0.0750	-	-	58	mg/kg
1,3,5-trimethylbenzene	6.25	4.82	<0.0250	-	-	27	mg/kg
1,2,4-trimethylbenzene	2.15	2.51	<0.0250	-	-	30	mg/kg
Naphthalene	2.62	0.938	<0.153	-	-	2	mg/kg
2-methylnaphthalene	16.8	8.02	<0.226	-	-	24	mg/kg
1-methylnaphthalene	7.67	4.55	<0.161	-	-	18	mg/kg
Acenaphthene	<0.235	<0.235	<0.235	-	-	360	mg/kg
Fluorene	2.77	1.50	<0.142	-	-	240	mg/kg
Anthracene	<0.172	<0.172	<0.172	-	-	1800	mg/kg
Fluoranthene	<0.185	<0.185	<0.185	-	-	240	mg/kg
Pyrene	0.873	0.492	<0.132	-	-	180	mg/kg
Benzo(a)anthracene	<0.230	<0.230	<0.230	-	-	1.1	mg/kg
Chrysene	1.24	0.716	<0.172	-	-	110	mg/kg
Benzo(b)fluoranthene	0.229**	<0.192	<0.192	-	-	1.1	mg/kg
Benzo(k)fluoranthene	<0.157	<0.157	<0.157	-	-	11	mg/kg
Benzo(a)pyrene	<0.182*	<0.182*	<0.182*	-	-	0.11	mg/kg
Indeno(1,2,3-cd)pyrene	<0.168	<0.168	<0.168	-	-	1.1	mg/kg
Dibenz(a,h)anthracene	<0.186*	<0.186*	<0.186*	-	-	0.11	mg/kg

Notes:

PID - Photoionization Detector
SAR - Sodium Adsorption Ratio
BTEX - Benzene, Toluene, Ethylbenzene, & Total Xylenes
TPH - Total Petroleum Hydrocarbons
GRO - Gasoline Range Organics
DRO - Diesel Range Organics
EXT - Extended
NA - Not Applicable
ppm - parts per million
BG - background

bgs - below ground surface
mmhos/cm - millihos per centimeter
mg/L - milligrams per liter
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Bold values exceed COGCC Standard
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Table 1 (continued)
Soil Sampling Results
Margaret Spaulding Centralized Tank Battery
Lone Pine Investigation
COGCC

Parameter	BH-24 (0-5')	BH-24 (15-18')	BH-25 (0-5')	BH-26 (15-19')	BH-27 (14-17'6")	COGCC Table 915-1 Standard	Units
	10/19/2022	10/19/2022	10/19/2022	10/19/2022	10/19/2022		
Latitude/Longitude	40.717997, -106.498158	40.717997, -106.498158	40.718008, -106.498245	40.718019, -106.498335	40.718032, -106.498420	NA	NA
Laboratory ID	2210207-26	2210207-27	2210207-28	2210207-29	2210207-30	NA	NA
Depth	0-5	15-18	0-5	15-19	14-17.5	NA	feet bgs
PID	0.3	0.7	597.3	1586	1.3	NA	ppm
Conductivity	-	-	0.490	-	-	<4	mmhos/cm
pH	-	-	7.19	-	-	6-8.3	pH units
SAR	-	-	0.88	-	-	<6	no units
Calcium	-	-	66.4	-	-	NA	mg/L
Magnesium	-	-	10.5	-	-	NA	mg/L
Sodium	-	-	29.1	-	-	NA	mg/L
Arsenic	-	-	4.57	-	-	0.68 or 1.25x BG	mg/kg
Barium	-	-	117	-	-	15000 or 1.25x BG	mg/kg
Cadmium	-	-	<5.00	-	-	71 or 1.25x BG	mg/kg
Chromium (VI)	-	-	0.874	-	-	0.3 or 1.25x BG	mg/kg
Total Chromium	-	-	14.8	-	-	NA	mg/kg
Copper	-	-	11.8	-	-	3100 or 1.25x BG	mg/kg
Lead	-	-	<10.0	-	-	400 or 1.25x BG	mg/kg
Nickel	-	-	9.06	-	-	1500 or 1.25x BG	mg/kg
Selenium	-	-	<20.0	-	-	390 or 1.25x BG	mg/kg
Silver	-	-	<1.00	-	-	390 or 1.25x BG	mg/kg
Zinc	-	-	49.0	-	-	23000 or 1.25x BG	mg/kg
Boron	-	-	<1.20	-	-	2	mg/L
TPH (GRO)	<10.0	<10.0	76.5	2390	<10.0	NA	mg/kg
TPH (DRO)	12.5	<10.0	492	8330	<10.0	NA	mg/kg
TPH (EXT DRO)	12.7	<10.0	287	1820	<10.0	NA	mg/kg
Total TPH	25.2	<30.0	855.5	12540	<30.0	500	mg/kg
Benzene	-	-	<0.0250	<0.250	-	1.2	mg/kg
Toluene	-	-	<0.0250	<0.250	-	490	mg/kg
Ethylbenzene	-	-	<0.0250	2.42	-	5.8	mg/kg
Total Xylenes	-	-	<0.0750	<0.750	-	58	mg/kg
1,3,5-trimethylbenzene	-	-	0.938	<0.250	-	27	mg/kg
1,2,4-trimethylbenzene	-	-	0.0346	3.87	-	30	mg/kg
Naphthalene	-	-	0.157**	2.63	-	2	mg/kg
2-methylnaphthalene	-	-	<0.226	16.5	-	24	mg/kg
1-methylnaphthalene	-	-	<0.161	13.3	-	18	mg/kg
Acenaphthene	-	-	<0.235	<0.235	-	360	mg/kg
Fluorene	-	-	0.319**	2.82	-	240	mg/kg
Anthracene	-	-	<0.172	<0.172	-	1800	mg/kg
Fluoranthene	-	-	<0.185	0.252**	-	240	mg/kg
Pyrene	-	-	<0.132	0.872	-	180	mg/kg
Benzo(a)anthracene	-	-	<0.230	<0.230	-	1.1	mg/kg
Chrysene	-	-	0.323**	1.21	-	110	mg/kg
Benzo(b)fluoranthene	-	-	<0.192	0.254**	-	1.1	mg/kg
Benzo(k)fluoranthene	-	-	<0.157	<0.157	-	11	mg/kg
Benzo(a)pyrene	-	-	<0.182*	<0.182*	-	0.11	mg/kg
Indeno(1,2,3-cd)pyrene	-	-	<0.168	<0.168	-	1.1	mg/kg
Dibenz(a,h)anthracene	-	-	<0.186*	<0.186*	-	0.11	mg/kg

Notes:

PID - Photoionization Detector
SAR - Sodium Adsorption Ratio
BTEX - Benzene, Toluene, Ethylbenzene, & Total Xylenes
TPH - Total Petroleum Hydrocarbons
GRO - Gasoline Range Organics
DRO - Diesel Range Organics
EXT - Extended
NA - Not Applicable
ppm - parts per million
BG - background

bgs - below ground surface
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Bold values exceed COGCC Standard
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Table 1 (continued)
Soil Sampling Results
Margaret Spaulding Centralized Tank Battery
Lone Pine Investigation
COGCC

Parameter	BH-29 (0-5')	BH-29 (15-18')	BH-30 (15-18')	BH-31 (0-5')	BH-31 (15-19')	COGCC Table 915-1 Standard	Units
	10/19/2022	10/19/2022	10/19/2022	10/19/2022	10/19/2022		
Latitude/Longitude	40.718123, -106.498579	40.718123, -106.498579	40.718110, -106.498492	40.718098, -106.498406	40.718098, -106.498406	NA	NA
Laboratory ID	2210207-31	2210207-32	2210207-33	2210207-34	2210207-35	NA	NA
Depth	0-5	15-18	15-18	0-5	15-19	NA	feet bgs
PID	1.1	839.4	1139	634.9	1937	NA	ppm
Conductivity	-	-	-	1.200	-	<4	mmhos/cm
pH	-	-	-	7.53	-	6-8.3	pH units
SAR	-	-	-	7.08	-	<6	no units
Calcium	-	-	-	50.5	-	NA	mg/L
Magnesium	-	-	-	9.40	-	NA	mg/L
Sodium	-	-	-	209	-	NA	mg/L
Arsenic	-	-	-	3.09	-	0.68 or 1.25x BG	mg/kg
Barium	-	-	-	106	-	15000 or 1.25x BG	mg/kg
Cadmium	-	-	-	<5.00	-	71 or 1.25x BG	mg/kg
Chromium (VI)	-	-	-	1.89	-	0.3 or 1.25x BG	mg/kg
Total Chromium	-	-	-	20.2	-	NA	mg/kg
Copper	-	-	-	16.9	-	3100 or 1.25x BG	mg/kg
Lead	-	-	-	11.8	-	400 or 1.25x BG	mg/kg
Nickel	-	-	-	11.9	-	1500 or 1.25x BG	mg/kg
Selenium	-	-	-	<20.0	-	390 or 1.25x BG	mg/kg
Silver	-	-	-	<1.00	-	390 or 1.25x BG	mg/kg
Zinc	-	-	-	55.4	-	23000 or 1.25x BG	mg/kg
Boron	-	-	-	<1.20	-	2	mg/L
TPH (GRO)	<10.0	222	1030	464	1370	NA	mg/kg
TPH (DRO)	75.2	1400	3200	3920	4610	NA	mg/kg
TPH (EXT DRO)	75.0	302	825	1230	1110	NA	mg/kg
Total TPH	150.2	1924	5055	5614	7090	500	mg/kg
Benzene	-	<0.0250	<0.250	<0.250	<0.250	1.2	mg/kg
Toluene	-	<0.0250	<0.250	<0.250	<0.250	490	mg/kg
Ethylbenzene	-	0.0749	3.74	<0.250	1.61	5.8	mg/kg
Total Xylenes	-	<0.0750	<0.750	<0.750	2.12	58	mg/kg
1,3,5-trimethylbenzene	-	<0.0250	0.495	1.10	<0.250	27	mg/kg
1,2,4-trimethylbenzene	-	<0.0250	6.86	3.26	<0.250	30	mg/kg
Naphthalene	-	0.031**	2.10	0.736	1.26	2	mg/kg
2-methylnaphthalene	-	1.24	14.3	5.41	12.3	24	mg/kg
1-methylnaphthalene	-	1.05	11.0	5.64	9.57	18	mg/kg
Acenaphthene	-	<0.024	<0.470	<0.235	<0.235	360	mg/kg
Fluorene	-	0.483	2.72	1.49	2.17	240	mg/kg
Anthracene	-	<0.017	<0.343	<0.172	<0.172	1800	mg/kg
Fluoranthene	-	0.048	<0.370	0.203**	0.205**	240	mg/kg
Pyrene	-	0.164	0.828	0.823	0.694	180	mg/kg
Benzo(a)anthracene	-	<0.023	<0.461	1.11	<0.230	1.1	mg/kg
Chrysene	-	0.242	1.26	1.34	1.12	110	mg/kg
Benzo(b)fluoranthene	-	0.047	<0.383	0.320**	0.198**	1.1	mg/kg
Benzo(k)fluoranthene	-	<0.016	<0.314	<0.157	<0.157	11	mg/kg
Benzo(a)pyrene	-	<0.018	<0.363*	<0.182*	<0.182*	0.11	mg/kg
Indeno(1,2,3-cd)pyrene	-	<0.017	<0.336	<0.168	<0.168	1.1	mg/kg
Dibenz(a,h)anthracene	-	<0.019	<0.371*	<0.186*	<0.186*	0.11	mg/kg

Notes:
 PID - Photoionization Detector
 SAR - Sodium Adsorption Ratio
 BTEX - Benzene, Toluene, Ethylbenzene, & Total Xylenes
 TPH - Total Petroleum Hydrocarbons
 GRO - Gasoline Range Organics
 DRO - Diesel Range Organics
 EXT - Extended
 NA - Not Applicable
 ppm - parts per million
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Table 1 (continued)
Soil Sampling Results
Margaret Spaulding Centralized Tank Battery
Lone Pine Investigation
COGCC

Parameter	BH-32 (0-3')	BH-33 (0-5')	BH-33 (5-10')	BH-34 (0-5')	BH-34 (16'6"-18')	COGCC Table 915-1 Standard	Units
	10/20/2022	10/20/2022	10/20/2022	10/20/2022	10/20/2022		
Latitude/Longitude	40.718086, -106.498319	40.718074, -106.498230	40.718074, -106.498230	40.718063, -106.498144	40.718063, -106.498144	NA	NA
Laboratory ID	2210207-36	2210207-37	2210207-38	2210207-39	2210207-40	NA	NA
Depth	0-3	0-5	5-10	0-5	16.5-18	NA	feet bgs
PID	14.4	0.5	302.1	0.6	0.1	NA	ppm
Conductivity	-	0.630	-	-	-	<4	mmhos/cm
pH	-	7.36	-	-	-	6-8.3	pH units
SAR	-	1.98	-	-	-	<6	no units
Calcium	-	63.0	-	-	-	NA	mg/L
Magnesium	-	9.30	-	-	-	NA	mg/L
Sodium	-	63.5	-	-	-	NA	mg/L
Arsenic	-	2.43	-	-	-	0.68 or 1.25x BG	mg/kg
Barium	-	162	-	-	-	15000 or 1.25x BG	mg/kg
Cadmium	-	<5.00	-	-	-	71 or 1.25x BG	mg/kg
Chromium (VI)	-	<0.250	-	-	-	0.3 or 1.25x BG	mg/kg
Total Chromium	-	18.8	-	-	-	NA	mg/kg
Copper	-	18.0	-	-	-	3100 or 1.25x BG	mg/kg
Lead	-	<10.0	-	-	-	400 or 1.25x BG	mg/kg
Nickel	-	10.1	-	-	-	1500 or 1.25x BG	mg/kg
Selenium	-	<20.0	-	-	-	390 or 1.25x BG	mg/kg
Silver	-	<1.00	-	-	-	390 or 1.25x BG	mg/kg
Zinc	-	65.1	-	-	-	23000 or 1.25x BG	mg/kg
Boron	-	<1.20	-	-	-	2	mg/L
TPH (GRO)	11.4	<10.0	549	<10.0	<10.0	NA	mg/kg
TPH (DRO)	177	376	4440	<10.0	<10.0	NA	mg/kg
TPH (EXT DRO)	98.4	207	1110	21.8	<10.0	NA	mg/kg
Total TPH	286.8	583	6099	21.8	<30.0	500	mg/kg
Benzene	-	<0.0250	<0.250	-	-	1.2	mg/kg
Toluene	-	<0.0250	<0.250	-	-	490	mg/kg
Ethylbenzene	-	<0.0250	1.90	-	-	5.8	mg/kg
Total Xylenes	-	<0.0750	<0.750	-	-	58	mg/kg
1,3,5-trimethylbenzene	-	<0.0250	<0.250	-	-	27	mg/kg
1,2,4-trimethylbenzene	-	<0.0250	<0.250	-	-	30	mg/kg
Naphthalene	-	<0.153	1.77	-	-	2	mg/kg
2-methylnaphthalene	-	<0.226	9.48	-	-	24	mg/kg
1-methylnaphthalene	-	<0.161	7.41	-	-	18	mg/kg
Acenaphthene	-	<0.235	<0.235	-	-	360	mg/kg
Fluorene	-	<0.142	1.77	-	-	240	mg/kg
Anthracene	-	<0.172	<0.172	-	-	1800	mg/kg
Fluoranthene	-	<0.185	<0.185	-	-	240	mg/kg
Pyrene	-	0.150**	0.612	-	-	180	mg/kg
Benzo(a)anthracene	-	<0.230	<0.230	-	-	1.1	mg/kg
Chrysene	-	0.525	0.897	-	-	110	mg/kg
Benzo(b)fluoranthene	-	<0.192	0.202**	-	-	1.1	mg/kg
Benzo(k)fluoranthene	-	<0.157	<0.157	-	-	11	mg/kg
Benzo(a)pyrene	-	<0.182*	<0.182*	-	-	0.11	mg/kg
Indeno(1,2,3-cd)pyrene	-	<0.168	<0.168	-	-	1.1	mg/kg
Dibenz(a,h)anthracene	-	<0.186*	<0.186*	-	-	0.11	mg/kg

Notes:
PID - Photoionization Detector
SAR - Sodium Adsorption Ratio
BTEX - Benzene, Toluene, Ethylbenzene, & Total Xylenes
TPH - Total Petroleum Hydrocarbons
GRO - Gasoline Range Organics
DRO - Diesel Range Organics
EXT - Extended
NA - Not Applicable
ppm - parts per million
BG - background
bgs - below ground surface
mmhos/cm - millihos per centimeter
mg/L - milligrams per liter
mg/kg - milligrams per kilogram
COGCC - Colorado Oil & Gas Conservation Commission
* - Laboratory detection limit exceeds COGCC Standard
Bold values exceed COGCC Standard
Values reported below the laboratory detection limit are considered zero in Total TPH calculations.
** - Value detected below the reporting limit; result is an estimate.
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Table 1 (continued)
Soil Sampling Results
Margaret Spaulding Centralized Tank Battery
Lone Pine Investigation
COGCC

Parameter	BH-36 (0-5')	BH-37 (5-10')	BH-37 (20-22')	BH-38 (0-5')	BH-38 (20-22')	COGCC Table 915-1 Standard	Units
	10/20/2022	10/20/2022	10/20/2022	10/20/2022	10/20/2022		
Latitude/Longitude	40.718129, -106.498128	40.718140, -106.498215	40.718140, -106.498215	40.718152, -106.498304	40.718152, -106.498304	NA	NA
Laboratory ID	2210207-41	2210207-42	2210207-43	2210207-44	2210207-45	NA	NA
Depth	0-5	5-10	20-22	0-5	20-22	NA	feet bgs
PID	0.5	0.3	133.7	0.1	950.1	NA	ppm
Conductivity	-	-	-	-	-	<4	mmhos/cm
pH	-	-	-	-	-	6-8.3	pH units
SAR	-	-	-	-	-	<6	no units
Calcium	-	-	-	-	-	NA	mg/L
Magnesium	-	-	-	-	-	NA	mg/L
Sodium	-	-	-	-	-	NA	mg/L
Arsenic	-	-	-	-	-	0.68 or 1.25x BG	mg/kg
Barium	-	-	-	-	-	15000 or 1.25x BG	mg/kg
Cadmium	-	-	-	-	-	71 or 1.25x BG	mg/kg
Chromium (VI)	-	-	-	-	-	0.3 or 1.25x BG	mg/kg
Total Chromium	-	-	-	-	-	NA	mg/kg
Copper	-	-	-	-	-	3100 or 1.25x BG	mg/kg
Lead	-	-	-	-	-	400 or 1.25x BG	mg/kg
Nickel	-	-	-	-	-	1500 or 1.25x BG	mg/kg
Selenium	-	-	-	-	-	390 or 1.25x BG	mg/kg
Silver	-	-	-	-	-	390 or 1.25x BG	mg/kg
Zinc	-	-	-	-	-	23000 or 1.25x BG	mg/kg
Boron	-	-	-	-	-	2	mg/L
TPH (GRO)	<10.0	<10.0	<10.0	<10.0	315	NA	mg/kg
TPH (DRO)	<10.0	<10.0	85.7	177	1710	NA	mg/kg
TPH (EXT DRO)	<10.0	<10.0	<10.0	53.9	165	NA	mg/kg
Total TPH	<30.0	<30.0	85.7	230.9	2190	500	mg/kg
Benzene	-	-	-	-	<0.250	1.2	mg/kg
Toluene	-	-	-	-	<0.250	490	mg/kg
Ethylbenzene	-	-	-	-	0.500	5.8	mg/kg
Total Xylenes	-	-	-	-	<0.750	58	mg/kg
1,3,5-trimethylbenzene	-	-	-	-	<0.250	27	mg/kg
1,2,4-trimethylbenzene	-	-	-	-	0.490	30	mg/kg
Naphthalene	-	-	-	-	1.08	2	mg/kg
2-methylnaphthalene	-	-	-	-	6.64	24	mg/kg
1-methylnaphthalene	-	-	-	-	5.14	18	mg/kg
Acenaphthene	-	-	-	-	<0.235	360	mg/kg
Fluorene	-	-	-	-	1.45	240	mg/kg
Anthracene	-	-	-	-	<0.172	1800	mg/kg
Fluoranthene	-	-	-	-	<0.185	240	mg/kg
Pyrene	-	-	-	-	0.455	180	mg/kg
Benzo(a)anthracene	-	-	-	-	<0.230	1.1	mg/kg
Chrysene	-	-	-	-	0.683	110	mg/kg
Benzo(b)fluoranthene	-	-	-	-	<0.192	1.1	mg/kg
Benzo(k)fluoranthene	-	-	-	-	<0.157	11	mg/kg
Benzo(a)pyrene	-	-	-	-	<0.182*	0.11	mg/kg
Indeno(1,2,3-cd)pyrene	-	-	-	-	<0.168	1.1	mg/kg
Dibenz(a,h)anthracene	-	-	-	-	<0.186*	0.11	mg/kg

Notes:

PID - Photoionization Detector
SAR - Sodium Adsorption Ratio
BTEX - Benzene, Toluene, Ethylbenzene, & Total Xylenes
TPH - Total Petroleum Hydrocarbons
GRO - Gasoline Range Organics
DRO - Diesel Range Organics
EXT - Extended
NA - Not Applicable
ppm - parts per million
BG - background

bgs - below ground surface
mmhos/cm - millihos per centimeter
mg/L - milligrams per liter
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Bold values exceed COGCC Standard
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Table 1 (continued)
Soil Sampling Results
Margaret Spaulding Centralized Tank Battery
Lone Pine Investigation
COGCC

Parameter	BH-39 (1-5')	BH-40 (19'6"-20')	BH-42 (15-18')	BH-43 (10-15')	BH-44 (5-9'4")	COGCC Table 915-1 Standard	Units
	10/20/2022	10/20/2022	10/20/2022	10/20/2022	10/20/2022		
Latitude/Longitude	40.718164, -106.498390	40.718188, -106.498565	40.718253, -106.498549	40.718241, -106.498461	40.718229, -106.498374	NA	NA
Laboratory ID	2210207-46	2210207-47	2210207-48	2210207-49	2210207-50	NA	NA
Depth	1-5	19.5-20	15-18	10-15	5-9.3	NA	feet bgs
PID	3.7	734.0	0.-2	0.1	3.2	NA	ppm
Conductivity	-	-	-	-	-	<4	mmhos/cm
pH	-	-	-	-	-	6-8.3	pH units
SAR	-	-	-	-	-	<6	no units
Calcium	-	-	-	-	-	NA	mg/L
Magnesium	-	-	-	-	-	NA	mg/L
Sodium	-	-	-	-	-	NA	mg/L
Arsenic	-	-	-	-	-	0.68 or 1.25x BG	mg/kg
Barium	-	-	-	-	-	15000 or 1.25x BG	mg/kg
Cadmium	-	-	-	-	-	71 or 1.25x BG	mg/kg
Chromium (VI)	-	-	-	-	-	0.3 or 1.25x BG	mg/kg
Total Chromium	-	-	-	-	-	NA	mg/kg
Copper	-	-	-	-	-	3100 or 1.25x BG	mg/kg
Lead	-	-	-	-	-	400 or 1.25x BG	mg/kg
Nickel	-	-	-	-	-	1500 or 1.25x BG	mg/kg
Selenium	-	-	-	-	-	390 or 1.25x BG	mg/kg
Silver	-	-	-	-	-	390 or 1.25x BG	mg/kg
Zinc	-	-	-	-	-	23000 or 1.25x BG	mg/kg
Boron	-	-	-	-	-	2	mg/L
TPH (GRO)	<10.0	393	<10.0	<10.0	<10.0	NA	mg/kg
TPH (DRO)	<10.0	1910	<10.0	<10.0	<10.0	NA	mg/kg
TPH (EXT DRO)	<10.0	192	<10.0	<10.0	<10.0	NA	mg/kg
Total TPH	<30.0	2495	<30.0	<30.0	<30.0	500	mg/kg
Benzene	-	<0.250	-	-	-	1.2	mg/kg
Toluene	-	<0.250	-	-	-	490	mg/kg
Ethylbenzene	-	<0.250	-	-	-	5.8	mg/kg
Total Xylenes	-	<0.750	-	-	-	58	mg/kg
1,3,5-trimethylbenzene	-	<0.250	-	-	-	27	mg/kg
1,2,4-trimethylbenzene	-	<0.250	-	-	-	30	mg/kg
Naphthalene	-	0.018**	-	-	-	2	mg/kg
2-methylnaphthalene	-	0.759	-	-	-	24	mg/kg
1-methylnaphthalene	-	0.693	-	-	-	18	mg/kg
Acenaphthene	-	<0.024	-	-	-	360	mg/kg
Fluorene	-	0.268	-	-	-	240	mg/kg
Anthracene	-	<0.017	-	-	-	1800	mg/kg
Fluoranthene	-	0.041	-	-	-	240	mg/kg
Pyrene	-	0.126	-	-	-	180	mg/kg
Benzo(a)anthracene	-	<0.023	-	-	-	1.1	mg/kg
Chrysene	-	0.187	-	-	-	110	mg/kg
Benzo(b)fluoranthene	-	0.043	-	-	-	1.1	mg/kg
Benzo(k)fluoranthene	-	<0.016	-	-	-	11	mg/kg
Benzo(a)pyrene	-	<0.018	-	-	-	0.11	mg/kg
Indeno(1,2,3-cd)pyrene	-	<0.017	-	-	-	1.1	mg/kg
Dibenz(a,h)anthracene	-	<0.019	-	-	-	0.11	mg/kg

Notes:

PID - Photoionization Detector
SAR - Sodium Adsorption Ratio
BTEX - Benzene, Toluene, Ethylbenzene, & Total Xylenes
TPH - Total Petroleum Hydrocarbons
GRO - Gasoline Range Organics
DRO - Diesel Range Organics
EXT - Extended
NA - Not Applicable
ppm - parts per million
BG - background

bgs - below ground surface
mmhos/cm - millihos per centimeter
mg/L - milligrams per liter
mg/kg - milligrams per kilogram
COGCC - Colorado Oil & Gas Conservation Commission
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Bold values exceed COGCC Standard
Values reported below the laboratory detection limit are considered zero in Total TPH calculations.
** - Value detected below the reporting limit; result is an estimate.
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Table 1 (continued)
Soil Sampling Results
Margaret Spaulding Centralized Tank Battery
Lone Pine Investigation
COGCC

Parameter	BH-44 (20-24')	BH-45 (15-20')	BH-46 (0-5')	BH-47 (18-19')	BH-47 (19'6"-20')	COGCC Table 915-1 Standard	Units
	10/20/2022	10/20/2022	10/20/2022	10/20/2022	10/20/2022		
Latitude/Longitude	40.718229, -106.498374	40.718218, -106.498286	40.718208, -106.498199	40.718182, -106.498042	40.718182, -106.498042	NA	NA
Laboratory ID	2210207-51	2210207-52	2210207-53	2210207-54	2210207-55	NA	NA
Depth	20-24	15-20	0-5	18-19	19.5-20	NA	feet bgs
PID	537.6	99.0	0.4	0.5	0.9	NA	ppm
Conductivity	-	-	-	-	-	<4	mmhos/cm
pH	-	-	-	-	-	6-8.3	pH units
SAR	-	-	-	-	-	<6	no units
Calcium	-	-	-	-	-	NA	mg/L
Magnesium	-	-	-	-	-	NA	mg/L
Sodium	-	-	-	-	-	NA	mg/L
Arsenic	-	-	-	-	-	0.68 or 1.25x BG	mg/kg
Barium	-	-	-	-	-	15000 or 1.25x BG	mg/kg
Cadmium	-	-	-	-	-	71 or 1.25x BG	mg/kg
Chromium (VI)	-	-	-	-	-	0.3 or 1.25x BG	mg/kg
Total Chromium	-	-	-	-	-	NA	mg/kg
Copper	-	-	-	-	-	3100 or 1.25x BG	mg/kg
Lead	-	-	-	-	-	400 or 1.25x BG	mg/kg
Nickel	-	-	-	-	-	1500 or 1.25x BG	mg/kg
Selenium	-	-	-	-	-	390 or 1.25x BG	mg/kg
Silver	-	-	-	-	-	390 or 1.25x BG	mg/kg
Zinc	-	-	-	-	-	23000 or 1.25x BG	mg/kg
Boron	-	-	-	-	-	2	mg/L
TPH (GRO)	257	<10.0	<10.0	<10.0	<10.0	NA	mg/kg
TPH (DRO)	1400	<10.0	<10.0	<10.0	<10.0	NA	mg/kg
TPH (EXT DRO)	260	<10.0	<10.0	<10.0	<10.0	NA	mg/kg
Total TPH	1917	<30.0	<30.0	<30.0	<30.0	500	mg/kg
Benzene	<0.250	-	-	-	-	1.2	mg/kg
Toluene	<0.250	-	-	-	-	490	mg/kg
Ethylbenzene	<0.250	-	-	-	-	5.8	mg/kg
Total Xylenes	<0.750	-	-	-	-	58	mg/kg
1,3,5-trimethylbenzene	<0.250	-	-	-	-	27	mg/kg
1,2,4-trimethylbenzene	<0.250	-	-	-	-	30	mg/kg
Naphthalene	0.038**	-	-	-	-	2	mg/kg
2-methylnaphthalene	1.42	-	-	-	-	24	mg/kg
1-methylnaphthalene	1.15	-	-	-	-	18	mg/kg
Acenaphthene	<0.024	-	-	-	-	360	mg/kg
Fluorene	0.508	-	-	-	-	240	mg/kg
Anthracene	<0.017	-	-	-	-	1800	mg/kg
Fluoranthene	0.049	-	-	-	-	240	mg/kg
Pyrene	0.157	-	-	-	-	180	mg/kg
Benzo(a)anthracene	<0.023	-	-	-	-	1.1	mg/kg
Chrysene	0.220	-	-	-	-	110	mg/kg
Benzo(b)fluoranthene	0.050	-	-	-	-	1.1	mg/kg
Benzo(k)fluoranthene	<0.016	-	-	-	-	11	mg/kg
Benzo(a)pyrene	<0.018	-	-	-	-	0.11	mg/kg
Indeno(1,2,3-cd)pyrene	<0.017	-	-	-	-	1.1	mg/kg
Dibenz(a,h)anthracene	<0.019	-	-	-	-	0.11	mg/kg

Notes:

PID - Photoionization Detector
SAR - Sodium Adsorption Ratio
BTEX - Benzene, Toluene, Ethylbenzene, & Total Xylenes
TPH - Total Petroleum Hydrocarbons
GRO - Gasoline Range Organics
DRO - Diesel Range Organics
EXT - Extended
NA - Not Applicable
ppm - parts per million
BG - background

bgs - below ground surface
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Table 1 (continued)
Soil Sampling Results
Margaret Spaulding Centralized Tank Battery
Lone Pine Investigation
COGCC

Parameter	BH-49 (0-5')	BH-49 (18'6"-19')	BH-50 (15-19')	BH-51 (5-10')	BH-51 (15-16')	COGCC Table 915-1 Standard	Units
	10/20/2022	10/20/2022	10/20/2022	10/20/2022	10/20/2022		
Latitude/Longitude	40.718260, -106.498097	40.718260, -106.498097	40.718282, -106.498273	40.718309, -106.498445	40.718309, -106.498445	NA	NA
Laboratory ID	2210207-56	2210207-57	2210207-58	2210207-59	2210207-60	NA	NA
Depth	0-5	18.5-19	15-19	5-10	15-16	NA	feet bgs
PID	0.4	1.0	1148	0.7	0.7	NA	ppm
Conductivity	-	-	-	-	-	<4	mmhos/cm
pH	-	-	-	-	-	6-8.3	pH units
SAR	-	-	-	-	-	<6	no units
Calcium	-	-	-	-	-	NA	mg/L
Magnesium	-	-	-	-	-	NA	mg/L
Sodium	-	-	-	-	-	NA	mg/L
Arsenic	-	-	-	-	-	0.68 or 1.25x BG	mg/kg
Barium	-	-	-	-	-	15000 or 1.25x BG	mg/kg
Cadmium	-	-	-	-	-	71 or 1.25x BG	mg/kg
Chromium (VI)	-	-	-	-	-	0.3 or 1.25x BG	mg/kg
Total Chromium	-	-	-	-	-	NA	mg/kg
Copper	-	-	-	-	-	3100 or 1.25x BG	mg/kg
Lead	-	-	-	-	-	400 or 1.25x BG	mg/kg
Nickel	-	-	-	-	-	1500 or 1.25x BG	mg/kg
Selenium	-	-	-	-	-	390 or 1.25x BG	mg/kg
Silver	-	-	-	-	-	390 or 1.25x BG	mg/kg
Zinc	-	-	-	-	-	23000 or 1.25x BG	mg/kg
Boron	-	-	-	-	-	2	mg/L
TPH (GRO)	<10.0	<10.0	<10.0	<10.0	<10.0	NA	mg/kg
TPH (DRO)	<10.0	<10.0	241	<10.0	<10.0	NA	mg/kg
TPH (EXT DRO)	<10.0	<10.0	10.3	<10.0	<10.0	NA	mg/kg
Total TPH	<30.0	<30.0	251.3	<30.0	<30.0	500	mg/kg
Benzene	-	-	-	-	-	1.2	mg/kg
Toluene	-	-	-	-	-	490	mg/kg
Ethylbenzene	-	-	-	-	-	5.8	mg/kg
Total Xylenes	-	-	-	-	-	58	mg/kg
1,3,5-trimethylbenzene	-	-	-	-	-	27	mg/kg
1,2,4-trimethylbenzene	-	-	-	-	-	30	mg/kg
Naphthalene	-	-	-	-	-	2	mg/kg
2-methylnaphthalene	-	-	-	-	-	24	mg/kg
1-methylnaphthalene	-	-	-	-	-	18	mg/kg
Acenaphthene	-	-	-	-	-	360	mg/kg
Fluorene	-	-	-	-	-	240	mg/kg
Anthracene	-	-	-	-	-	1800	mg/kg
Fluoranthene	-	-	-	-	-	240	mg/kg
Pyrene	-	-	-	-	-	180	mg/kg
Benzo(a)anthracene	-	-	-	-	-	1.1	mg/kg
Chrysene	-	-	-	-	-	110	mg/kg
Benzo(b)fluoranthene	-	-	-	-	-	1.1	mg/kg
Benzo(k)fluoranthene	-	-	-	-	-	11	mg/kg
Benzo(a)pyrene	-	-	-	-	-	0.11	mg/kg
Indeno(1,2,3-cd)pyrene	-	-	-	-	-	1.1	mg/kg
Dibenz(a,h)anthracene	-	-	-	-	-	0.11	mg/kg

Notes:

PID - Photoionization Detector
SAR - Sodium Adsorption Ratio
BTEX - Benzene, Toluene, Ethylbenzene, & Total Xylenes
TPH - Total Petroleum Hydrocarbons
GRO - Gasoline Range Organics
DRO - Diesel Range Organics
EXT - Extended
NA - Not Applicable
ppm - parts per million
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bgs - below ground surface
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Bold values exceed COGCC Standard
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** - Value detected below the reporting limit; result is an estimate.
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Table 1 (continued)
Soil Sampling Results
Margaret Spaulding Centralized Tank Battery
Lone Pine Investigation
COGCC

Parameter	BH-51 (16-19')	BH-52 (0-5')	BH-53 (0-5')	BH-53 (6.5-7.5')	BH-54 (0-5')	COGCC Table 915-1 Standard	Units
	10/20/2022	10/24/2022	10/24/2022	10/24/2022	10/24/2022		
Latitude/Longitude	40.718309, -106.498445	40.717430, -106.498225	40.717396, -106.498373	40.717396, -106.498373	40.717331, -106.498322	NA	NA
Laboratory ID	2210207-61	2210227-01	2210227-02	2210227-03	2210227-04	NA	NA
Depth	16-19	0-5	0-5	6.5-7.5	0-5	NA	feet bgs
PID	113.4	23.0	0.1	10.8	2.0	NA	ppm
Conductivity	-	0.450	-	-	-	<4	mmhos/cm
pH	-	7.28	-	-	-	6-8.3	pH units
SAR	-	2.18	-	-	-	<6	no units
Calcium	-	36.9	-	-	-	NA	mg/L
Magnesium	-	6.69	-	-	-	NA	mg/L
Sodium	-	54.8	-	-	-	NA	mg/L
Arsenic	-	2.01	-	-	-	0.68 or 1.25x BG	mg/kg
Barium	-	237	-	-	-	15000 or 1.25x BG	mg/kg
Cadmium	-	<5.00	-	-	-	71 or 1.25x BG	mg/kg
Chromium (VI)	-	<0.250	-	-	-	0.3 or 1.25x BG	mg/kg
Total Chromium	-	21.7	-	-	-	NA	mg/kg
Copper	-	27.7	-	-	-	3100 or 1.25x BG	mg/kg
Lead	-	<10.0	-	-	-	400 or 1.25x BG	mg/kg
Nickel	-	13.0	-	-	-	1500 or 1.25x BG	mg/kg
Selenium	-	<20.0	-	-	-	390 or 1.25x BG	mg/kg
Silver	-	<1.00	-	-	-	390 or 1.25x BG	mg/kg
Zinc	-	271	-	-	-	23000 or 1.25x BG	mg/kg
Boron	-	<1.20	-	-	-	2	mg/L
TPH (GRO)	5240	<10.0	<10.0	219	<10.0	NA	mg/kg
TPH (DRO)	4640	534	95.1	3650	16.7	NA	mg/kg
TPH (EXT DRO)	354	372	93.6	639	<10.0	NA	mg/kg
Total TPH	10234	906	188.7	4508	16.7	500	mg/kg
Benzene	<0.250	<0.0250	-	<0.0250	-	1.2	mg/kg
Toluene	2.61***	<0.0250	-	<0.0250	-	490	mg/kg
Ethylbenzene	70.8***	<0.0250	-	0.0356	-	5.8	mg/kg
Total Xylenes	486***	<0.0750	-	<0.0750	-	58	mg/kg
1,3,5-trimethylbenzene	411***	<0.0250	-	<0.0250	-	27	mg/kg
1,2,4-trimethylbenzene	397***	<0.0250	-	<0.0250	-	30	mg/kg
Naphthalene	16.7	<0.015	-	<0.015	-	2	mg/kg
2-methylnaphthalene	53.2	<0.023	-	2.13	-	24	mg/kg
1-methylnaphthalene	32.5	<0.016	-	2.20	-	18	mg/kg
Acenaphthene	<0.470	<0.024	-	<0.024	-	360	mg/kg
Fluorene	2.06	<0.014	-	1.16	-	240	mg/kg
Anthracene	<0.343	<0.017	-	2.12	-	1800	mg/kg
Fluoranthene	0.378**	<0.019	-	<0.019	-	240	mg/kg
Pyrene	0.684**	0.032**	-	<0.013	-	180	mg/kg
Benzo(a)anthracene	<0.461	<0.023	-	<0.023	-	1.1	mg/kg
Chrysene	0.814	0.092	-	<0.017	-	110	mg/kg
Benzo(b)fluoranthene	<0.383	<0.019	-	<0.019	-	1.1	mg/kg
Benzo(k)fluoranthene	<0.314	<0.016	-	<0.016	-	11	mg/kg
Benzo(a)pyrene	<0.363*	0.184	-	<0.018	-	0.11	mg/kg
Indeno(1,2,3-cd)pyrene	<0.336	<0.017	-	<0.017	-	1.1	mg/kg
Dibenz(a,h)anthracene	<0.371*	<0.019	-	<0.019	-	0.11	mg/kg

Notes:

PID - Photoionization Detector
SAR - Sodium Adsorption Ratio
BTEX - Benzene, Toluene, Ethylbenzene, & Total Xylenes
TPH - Total Petroleum Hydrocarbons
GRO - Gasoline Range Organics
DRO - Diesel Range Organics
EXT - Extended
NA - Not Applicable
ppm - parts per million
BG - background

bgs - below ground surface
mmhos/cm - millihos per centimeter
mg/L - milligrams per liter
mg/kg - milligrams per kilogram
COGCC - Colorado Oil & Gas Conservation Commission
* - Laboratory detection limit exceeds COGCC Standard
Bold values exceed COGCC Standard
Values reported below the laboratory detection limit are considered zero in Total TPH calculations.
** - Value detected below the reporting limit; result is an estimate.
*** - Concentration is an estimated value above the calibration range of the instrument

Table 1 (continued)
Soil Sampling Results
Margaret Spaulding Centralized Tank Battery
Lone Pine Investigation
COGCC

Parameter	BH-55 (15-19')	BH-56 (15-15.5')	Background-1	Background-2	Background-3	COGCC Table 915-1 Standard	Units
	10/25/2022	10/25/2022	10/20/2022	10/20/2022	10/20/2022		
Latitude/Longitude	40.718418, -106.498300	40.718398, -106.498530	40.718210, -106.498771	40.718200, -106.498754	40.718540, -106.497640	NA	NA
Laboratory ID	2210227-05	2210227-06	2210206-01	2210206-02	2210206-03	NA	NA
Depth	15-19	15-15.5	0-1	0-0.6	0-0.6	NA	feet bgs
PID	0.1	-	-	-	-	NA	ppm
Conductivity	-	-	0.316	0.226	0.235	<4	mmhos/cm
pH	-	-	7.48	6.56	6.68	6-8.3	pH units
SAR	-	-	0.14	0.27	0.31	<6	no units
Calcium	-	-	61.7	34.3	34.8	NA	mg/L
Magnesium	-	-	6.12	7.59	6.51	NA	mg/L
Sodium	-	-	4.40	6.65	7.60	NA	mg/L
Arsenic	-	-	3.97	3.49	3.61	0.68 or 1.25x BG	mg/kg
Barium	-	-	172	156	154	15000 or 1.25x BG	mg/kg
Cadmium	-	-	<5.00	<5.00	<5.00	71 or 1.25x BG	mg/kg
Chromium (VI)	-	-	<0.250	<0.250	<0.250	0.3 or 1.25x BG	mg/kg
Total Chromium	-	-	19.2	19.0	18.4	NA	mg/kg
Copper	-	-	13.0	12.7	12.3	3100 or 1.25x BG	mg/kg
Lead	-	-	<10.0	10.1	<10.0	400 or 1.25x BG	mg/kg
Nickel	-	-	12.7	11.4	11.6	1500 or 1.25x BG	mg/kg
Selenium	-	-	<20.0	<20.0	<20.0	390 or 1.25x BG	mg/kg
Silver	-	-	<1.00	<1.00	<1.00	390 or 1.25x BG	mg/kg
Zinc	-	-	54.3	53.8	52.5	23000 or 1.25x BG	mg/kg
Boron	-	-	<1.20	<1.20	<1.20	2	mg/L
TPH (GRO)	<10.0	<10.0	-	-	-	NA	mg/kg
TPH (DRO)	<10.0	<10.0	-	-	-	NA	mg/kg
TPH (EXT DRO)	<10.0	<10.0	-	-	-	NA	mg/kg
Total TPH	<30.0	<30.0	-	-	-	500	mg/kg
Benzene	-	-	-	-	-	1.2	mg/kg
Toluene	-	-	-	-	-	490	mg/kg
Ethylbenzene	-	-	-	-	-	5.8	mg/kg
Total Xylenes	-	-	-	-	-	58	mg/kg
1,3,5-trimethylbenzene	-	-	-	-	-	27	mg/kg
1,2,4-trimethylbenzene	-	-	-	-	-	30	mg/kg
Naphthalene	-	-	-	-	-	2	mg/kg
2-methylnaphthalene	-	-	-	-	-	24	mg/kg
1-methylnaphthalene	-	-	-	-	-	18	mg/kg
Acenaphthene	-	-	-	-	-	360	mg/kg
Fluorene	-	-	-	-	-	240	mg/kg
Anthracene	-	-	-	-	-	1800	mg/kg
Fluoranthene	-	-	-	-	-	240	mg/kg
Pyrene	-	-	-	-	-	180	mg/kg
Benzo(a)anthracene	-	-	-	-	-	1.1	mg/kg
Chrysene	-	-	-	-	-	110	mg/kg
Benzo(b)fluoranthene	-	-	-	-	-	1.1	mg/kg
Benzo(k)fluoranthene	-	-	-	-	-	11	mg/kg
Benzo(a)pyrene	-	-	-	-	-	0.11	mg/kg
Indeno(1,2,3-cd)pyrene	-	-	-	-	-	1.1	mg/kg
Dibenz(a,h)anthracene	-	-	-	-	-	0.11	mg/kg

Notes:

PID - Photoionization Detector
SAR - Sodium Adsorption Ratio
BTEX - Benzene, Toluene, Ethylbenzene, & Total Xylenes
TPH - Total Petroleum Hydrocarbons
GRO - Gasoline Range Organics
DRO - Diesel Range Organics
EXT - Extended
NA - Not Applicable
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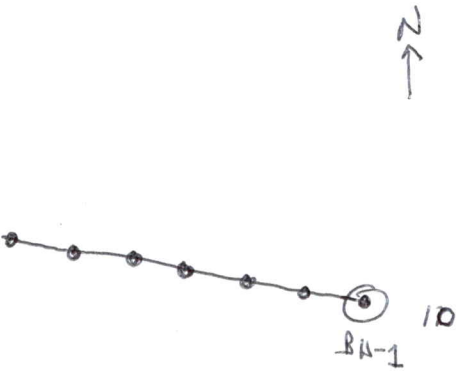
Table 1 (continued)
Soil Sampling Results
Margaret Spaulding Centralized Tank Battery
Lone Pine Investigation
COGCC

Parameter	Background-4	Background-5	COGCC Table 915-1	Units
	10/20/2022	10/20/2022	Standard	
Latitude/Longitude	40.718147, -106.497299	40.717511, -106.497082	NA	NA
Laboratory ID	2210206-04	2210206-05	NA	NA
Depth	0-0.5	0-0.5	NA	feet bgs
PID	-	-	NA	ppm
Conductivity	0.208	0.256	<4	mmhos/cm
pH	6.16	6.05	6-8.3	pH units
SAR	0.10	0.18	<6	no units
Calcium	32.6	30.4	NA	mg/L
Magnesium	6.78	7.26	NA	mg/L
Sodium	2.44	4.37	NA	mg/L
Arsenic	3.46	3.43	0.68 or 1.25x BG	mg/kg
Barium	192	148	15000 or 1.25x BG	mg/kg
Cadmium	<5.00	<5.00	71 or 1.25x BG	mg/kg
Chromium (VI)	0.364	<0.250	0.3 or 1.25x BG	mg/kg
Total Chromium	22.4	19.6	NA	mg/kg
Copper	18.0	15.3	3100 or 1.25x BG	mg/kg
Lead	12.5	<10.0	400 or 1.25x BG	mg/kg
Nickel	13.4	11.3	1500 or 1.25x BG	mg/kg
Selenium	<20.0	<20.0	390 or 1.25x BG	mg/kg
Silver	<1.00	<1.00	390 or 1.25x BG	mg/kg
Zinc	96.6	71.4	23000 or 1.25x BG	mg/kg
Boron	1.51	<1.20	2	mg/L
TPH (GRO)	-	-	NA	mg/kg
TPH (DRO)	-	-	NA	mg/kg
TPH (EXT DRO)	-	-	NA	mg/kg
Total TPH	-	-	500	mg/kg
Benzene	-	-	1.2	mg/kg
Toluene	-	-	490	mg/kg
Ethylbenzene	-	-	5.8	mg/kg
Total Xylenes	-	-	58	mg/kg
1,3,5-trimethylbenzene	-	-	27	mg/kg
1,2,4-trimethylbenzene	-	-	30	mg/kg
Naphthalene	-	-	2	mg/kg
2-methylnaphthalene	-	-	24	mg/kg
1-methylnaphthalene	-	-	18	mg/kg
Acenaphthene	-	-	360	mg/kg
Fluorene	-	-	240	mg/kg
Anthracene	-	-	1800	mg/kg
Fluoranthene	-	-	240	mg/kg
Pyrene	-	-	180	mg/kg
Benzo(a)anthracene	-	-	1.1	mg/kg
Chrysene	-	-	110	mg/kg
Benzo(b)fluoranthene	-	-	1.1	mg/kg
Benzo(k)fluoranthene	-	-	11	mg/kg
Benzo(a)pyrene	-	-	0.11	mg/kg
Indeno(1,2,3-cd)pyrene	-	-	1.1	mg/kg
Dibenz(a,h)anthracene	-	-	0.11	mg/kg

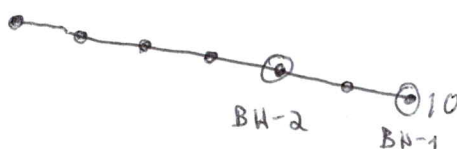
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SAR - Sodium Adsorption Ratio
BTEX - Benzene, Toluene, Ethylbenzene, & Total Xylenes
TPH - Total Petroleum Hydrocarbons
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DRO - Diesel Range Organics
EXT - Extended
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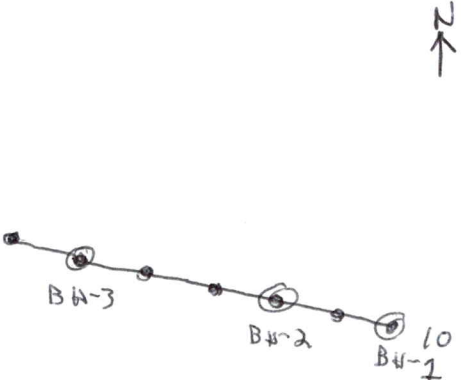
ATTACHMENT 1

				Project:	Lone Pine	Boring ID:	BH-1
				Date:	10/18/22	Logged By:	KS
				Location:	MS CTB	Elevation:	
				Drilling Company:	HRL	Drill Method:	Direct Push
				Diameter:	2"	Sample Interval:	5'
				Completion:	NA	Total Depth:	16'
Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:		
2	0-5	95%	0.2	Brown, sandy CLAY w/ gravel sl moist, no odor, no stain calc filled fractures	NA		
4							
6	5-10	90%	0.2	Brown SAND, moist, no odor, no stain, minor crushed gravel			
8							
10	10-15	60%	0.4	SAA, with CLAY lense from 14'6" to 14'10" increase in grain size to v. coarse grained SAND			
12							
14	15-16	100%	0.1	SAA slightly darker, no odor no obvious stain, increase in gravel			
16				Refusal @ 16'			
18							
20							
22							
24							
26							
28							
30							

No samples collected.

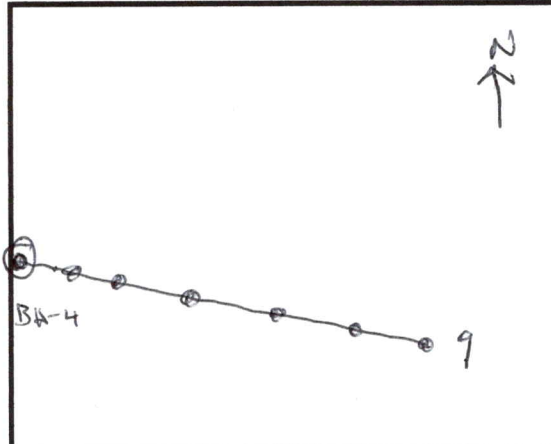
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				Date: 10/18/22	Logged By: KS
				Location: MS CTB	Elevation:
				Drilling Company: HRL	Drill Method: Direct Push
				Diameter: 2"	Sample Interval: 5'
				Completion: NA	Total Depth: 18'6"
Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5	50%	0.3	Brown, sandy CLAY w/ gravel interbedded w/ SAND w/ gravel moist, no odor, no stain	
4					
6	5-10	100%	0.4	Brown SAND, moist, no odor, no stain	
8				Brown CLAY w/ calc-filled fractures 8-9'	
10					
12	10-15	90%	0.3	Brown sandy CLAY, v. moist, no odor, no stain,	
14					
16	15-18'	90%	0.3	COBBLE, CLAY, grey stain, no odor non-distinct	
18	6"				
20				Refusal @ 18'6"	
22					
24					
26					
28					
30					

SAMPLE BH-2 @ (0-5') @ 1135

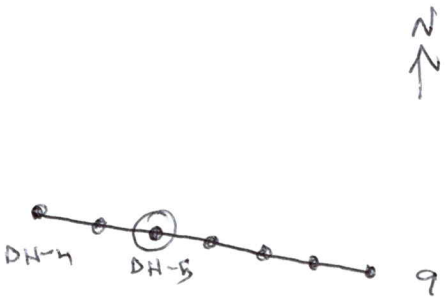
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	Date: 10/18/22	Logged By: KS
	Location: MS CTB	Elevation:
	Drilling Company: HEL	Drill Method: Direct Push
	Diameter: 2"	Sample Interval:
	Completion: NA	Total Depth: 15'

Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5'	60%	38.5	Brown to black clayey SAND w/ gravel PAC odor and stain moist	NA
4			NA	SAA black, PAC odor + stain	
6	5-10'	90%	2.0	Brown, clayey SAND, moist, no odor no stain	
8					
10	10'-15'	90%	2.5	Brown sandy CLAY, calc filled fractures, iron staining, NO PAC odor or stain	
12					
14					
16				Refusal @ 15'	
18					
20					
22					
24					
26					
28					
30					

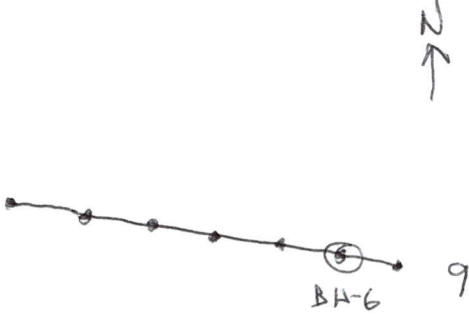
Sample BH-3(0-5')@ 1200

				Project: Lone Pine	Boring ID: BH-4
				Date: 10/18/22	Logged By: KS
				Location: MS CTB	Elevation:
				Drilling Company: HRL	Drill Method: Direct Push
				Diameter: 2"	Sample Interval: 5'
				Completion: NA	Total Depth: 14'
Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5	50%	0.8	Brown to Black, sandy CLAY w/ gravel, PHC odor & stain	NA
4			0.5	No PHC odor or stain from 4-5'	
6	5-10	100%	0.2	Brown, sandy CLAY interbedded w/ clayey SAND w/ gravel	
8				calc filled fractures in CLAY, most no odor, no stain	
10	10-14'	100%	0.2	Brown sandy CLAY, calc filled fractures, no stain, no odor	
12				COBBLE @ 13' bgs	
14				Refusal @ 14' bgs	
16					
18					
20					
22					
24					
26					
28					
30					

Sample BH-4 (0-4') @ 1235

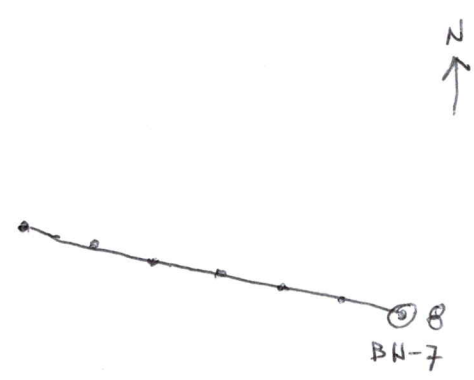
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				Date: 10/18/22	Logged By: KS
				Location: MS CTB	Elevation:
				Drilling Company: HRL	Drill Method: Direct Push
				Diameter: 2"	Sample Interval: 5'
				Completion: NA	Total Depth: 17'6"
Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5	70%	0.3	Brown to black clayey SAND w/ gravel, moist, sl odor, sl stain	
4					
6	5-10	95%	0.2	Brown, sandy CLAY, calc filled fractures, moist, no odor no stain	
8					
10				Brown SAND, w/ gravel moist no odor, no stain	
12	10-15	95%	0.4	SAND, but interbedded w/ brown sandy CLAY, calc filled frac.	
14					
16	15-17'6"	100%	0.4	SAND, w/ gravel, Brown, moist no odor minor stain (2") @ 15'6" COBBLE and SAND @ 16'6", no stain no odor	
18					
20					
22					
24					
26					
28					
30					
				Refusal @ 17'6"	

Samples BH-5 (0-5') @ 1245

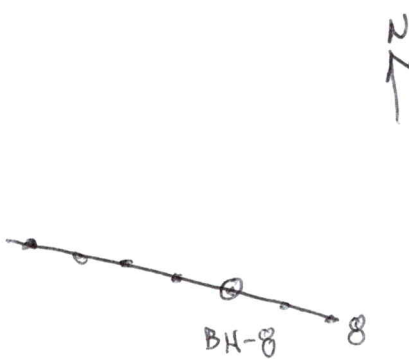
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	Date: 10/18/22	Logged By: KS
	Location: Lone Pine	Elevation:
	Drilling Company: HRL	Drill Method: Direct Push
	Diameter: 2"	Sample Interval: 5'
	Completion: NA	Total Depth: 19'6"

Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5	50%	0.2	Brown to dk brown sandy CLAY w/ gravel, moist,	NA
4					
6	5-10	95%	0.2	SAA,	
8					
10	10-15	85%	0.3	SAA	
12					
14	15-19'6"	0%	NA	COBBLE + GRAVEL ≈ 18'6"	
16					
18				Refusal @ 19'6"	
20					
22					
24					
26					
28					
30					

Sample: BH-6 (10-15') @ 1330


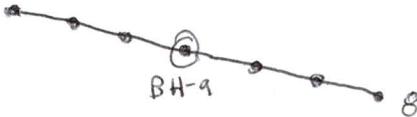
	Project: Lone Pine	Boring ID: BH-7
	Date: 10/18/22	Logged By: KS
	Location: MS CTB	Elevation:
	Drilling Company: HRL	Drill Method: Direct Push
	Diameter: 2"	Sample Interval: 5'
	Completion: NA	Total Depth: 17' 6"

Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5'	40%	0.7	Brown, clayey SAND w/ gravel moist, no odor, no stain	NA
4				SAA, but sl darker	
6	5-10'	30%	0.8		
8					
10				SAND SAND w/ gravel + COBBLE	
12	10-15'	60%	0.1	no stain, no odor	
14				Brown, sandy CLAY, calc frags, no stain, no odor	
16	15'-17'6"	75%	0.2	SAND, w/ COBBLE, brown, no stain, no odor	
18					
20				Refusal @ 17'6"	
22					
24					
26					
28					
30					

	Project:	Lone Pine	Boring ID:	BH-8
	Date:	10/18/22	Logged By:	KS
	Location:	MS CTB	Elevation:	
	Drilling Company:	HRL	Drill Method:	Direct Push
	Diameter:	2"	Sample Interval:	5'
	Completion:	NA	Total Depth:	19'

Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5	40%	0.6	Brown, clayey SAND w/ gravel moist, no odor, no stain	NA
4					
6	5-10	5%	0.6	Brown, sandy CLAY and COBBLE, moist, no odor, no stain	
8					
10				S&A	
12	10-15	80%	0.7		
14					
16	15-19	95%	0.3	Interbedded Brown SAND, moist, no odor w/ sandy CLAY, N. moist @ 18' bgs, and finer grained sand w/ silt cobble @ 18'6" w/ black stain, SI PHC odor, and SAND	
18			4.5		
20					
22				Refusal @ 19'	
24					
26					
28					
30					

Sample: BH-8 (18'6" - 19') @ 1430
2 soil jets only

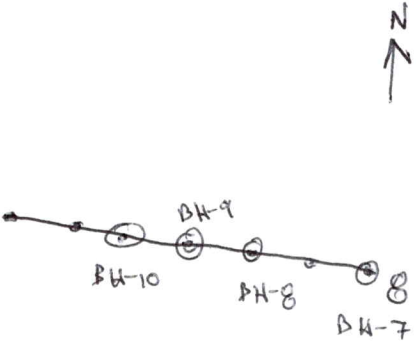
 				Project: Lone Pine	Boring ID: BH-9
				Date: 10/18/22	Logged By: KS
				Location: MS CTB	Elevation:
				Drilling Company: HRL	Drill Method: Direct Push
				Diameter: 2"	Sample Interval: 5'
				Completion: NA	Total Depth: 17'6"
Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5	60%	1-5'6" 941.6	Brown to black, sandy CLAY, w/ greenish PNC stain + odor from 1-5' bgs moist 1-5'6" bgs	NA
4					
6				SAA w/ sand COBBLE lenses from 5'6" to 6'6", no stain, no odor	
8	5-10	80%	7.3	calc filled fractures in sandy CLAY moist, no odor, no stain, 5'6"-10'	
10					
12	10-15	90%	0.4	SAA, brown sandy CLAY, calc filled frac, minor interbedded SAND lenses	
14					
16	15-17'6"	100%	31.8 0.6	@ 15' increase in silt and moisture minor black PNC stain/odor (2") from 15'6" to 15'8" COBBLE + SAND, Black staining, no odor at 17' from 17'-17'6"	
18					
20				Refusal @ 17'6"	
22					
24					
26					
28					
30					

Samples:

BH-9 (1-5'6") @ 1500

BH-9 (15'-17') @ 1510

BH-9 (17'-17'6") @ 1520 1520 only

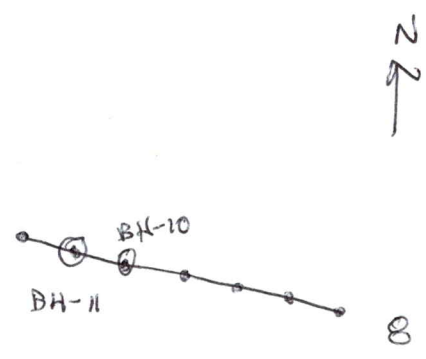
	Project:	Lone Pine	Boring ID:	BH-10
	Date:	10/18/22	Logged By:	KS
	Location:	MS CTB	Elevation:	
	Drilling Company:	HRL	Drill Method:	Direct Push
	Diameter:	2"	Sample Interval:	5'
	Completion:	NA	Total Depth:	17'

Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5	90%	2.8	Brown to dk brown sandy CLAY w/ gravelly, moist, SI stain + odor	NA
4					
6	5-10	95%	0.1	SAA w/ increase in calc filled frac but no stain, no odor starting @ 5'	
8					
10					NA
12	10-15	95%	0.1	SAA, sand lense from 14'-14'6" no stain, no odor	
14					
16	15-17	100%	0.0	SAA to 15'6" SAND w/ COBBLE, no stain, no odor Brown, moist	NA
18					
20					
22				Refusal @ 17'	
24					
26					
28					
30					

Samples:

BH-10 (0-5') @ 1540

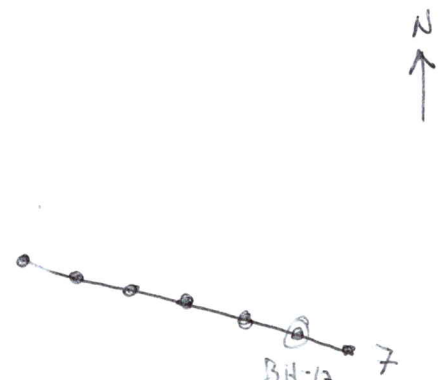
BH-10 (5-10') @ 1550

	Project:	Lone Pine	Boring ID:	BH-11
	Date:	10/18/22	Logged By:	KS
	Location:	MS CTB	Elevation:	
	Drilling Company:	HRL	Drill Method:	Direct Push
	Diameter:	2"	Sample Interval:	5'
	Completion:	NA	Total Depth:	15' 6"

Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5	40%	0.1	Brown to dk brown SAND w/ COBBLE, moist, no odor, no significant staining	
4					
6				Brown, sandy CLAY, Calc filled fractures, no stain, no odor	
8	5-10	95%	0.2		
10					
12	10-15	50%	0.3	@ 10' 6", Brown clayey SAND moist, no stain, no odor	
14					
16	15-15'6"	100%	0.7	SAND w/ COBBLE @ 15' Brown sandy CLAY, Calc filled fractures, no stain, no odor	
18					
20				Refusal @ 15' 6"	
22					
24					
26					
28					
30					

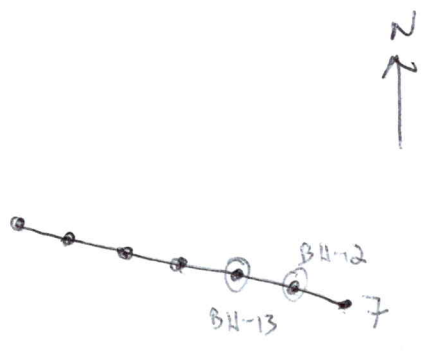
Samples

BH-11 (0-5') @ 1620

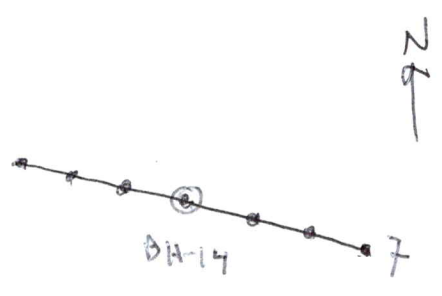
	Project: Lone Pine	Boring ID: BH-12
	Date: 10/19/22	Logged By: KS
	Location: MS CTB	Elevation:
	Drilling Company: HRL	Drill Method: Direct Push
	Diameter: 2"	Sample Interval: 5'
	Completion: NA	Total Depth: 18'

Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5	45%	0.0	Brown, sandy CLAY w/ minor gravel, moist, no odor, no stain	NA
4					
6	5-10	95%	0.0	SAA, but no gravel minor calc filled fractures	
8					
10					
12	10-15	100%	0.0	SAA minor gravel	
14					
16	15-18	100%	0.1	Brown silty clay, wet, no stain, no odor	
18				COBBLE @ 18', no stain, no odor	
20				Refusal @ 18'	
22					
24					
26					
28					
30					

Samples:
BH-12 (0-5') @ 0830

				Project: Lone Pine	Boring ID: BH-13
				Date: 10/19/22	Logged By: KS
				Location: MS CTB	Elevation:
				Drilling Company: HRL	Drill Method: Direct Push
				Diameter: 2"	Sample Interval: 5'
				Completion: NA	Total Depth: 17'
Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5	65%	0.9	Brown, sandy CLAY w/ gravel 5% moist, no odor, no stain	NA
4					
6	5-10	45%	0.8	SAA, calc filled fractures increase in moisture	
8					
10	10-15	50%	1.0	SAA, minor gravel	
12					
14					
16	15-16' 16'-17'	100%	0.9	SAA, no gravel	
18	15-17'		1.0	16'-10" - 17' is blackish gray sandy CLAY w/ ^{5% to black} stain/odor (st) COBBLE @ 17' non-existent	
20				Refusal @ 17'	
22					
24					
26					
28					
30					

Samples: BH-13 (0-5') @ 0845

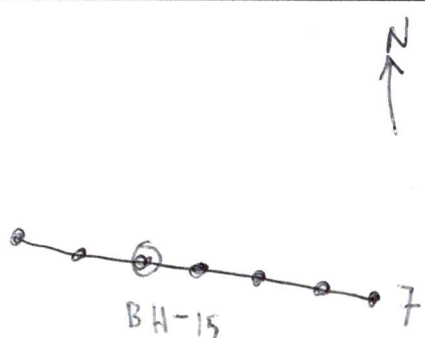
	Project:	Lone Pine	Boring ID:	BA-14
	Date:	10/19/22	Logged By:	KS
	Location:	MS CTB	Elevation:	
	Drilling Company:	HRL	Drill Method:	Direct Push
	Diameter:	2"	Sample Interval:	5'
	Completion:	NA	Total Depth:	17'

Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5	70%	0.8	dk brown to black clayey SAND w/ cobble PVC odor/stain, sl moist	NA
4			0.7	Brown sandy CLAY, moist, calc filled fractures, no odor, no stain @ 2'6"	
6	5-10	100%	0.7	SAA	
8					
10	10-15	100%	0.7	SAA, increase in moisture @ 14'	
12					
14	15-17	100%	0.6	SAA, increase in moisture	
16			0.8	@ 16'8", grey to black, non-distinct odor	
18					
20				Refusal 17'	
22					
24					
26					
28					
30					

Samples

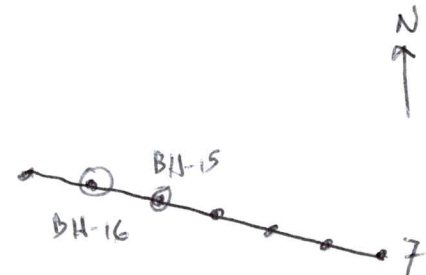
BH-14 (0-2'6") @ 0900 only 2 jars

BH-14 (16'8"-17') @ 0910 only 2 jars

	Project:	Lone Pine	Boring ID:	BH-15
	Date:	10/19/22	Logged By:	KS
	Location:	MS CTB	Elevation:	
	Drilling Company:	HRL	Drill Method:	Direct Push
	Diameter:	2"	Sample Interval:	5'
	Completion:	NA	Total Depth:	17'6"

Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5	30%	7.6	dk brown to greyish brown sandy CLAY w/ gravel, moist sl PHC odor/stain	NA
4					
6	5-10	100%	344.6	SAND, PHC odor/stain to 9'4", no gravel	
8					
10			2.3	no stain, no odor @ 9'4"	
12	10-15	100%	0.2	Brown, clayey SAND, moist no odor no stain	
14				CLAY from 12'6" to 13' then clayey SAND again	
16	15-17'6"	100%	0.2	SAND increase in CLAY, no stain/odor	
18			0.5	@ 16', SAND, greyish black non-distinct odor (swamp odor)	
20				Refusal @ 17'6"	
22					
24					
26					
28					
30					

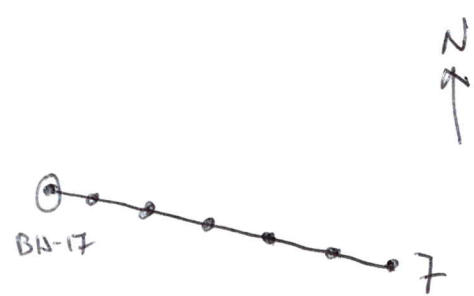
Sample: BH-15 ~~0930~~ (5-9'4") @ 0930

	Project: Lone Pine	Boring ID: BA-16
	Date: 10/19/22	Logged By: KS
	Location: MS CTB	Elevation:
	Drilling Company: HRL	Drill Method: Direct Push
	Diameter: 2"	Sample Interval: 5'
	Completion: NA	Total Depth: 15'6"

PID
 2'-2'6"
 = 17.1
 2'6"-4'6"
 = 496.8


Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-2'6"	100%	0.6	Brown clayey SAND w/ gravel, sl moist no odor, no stain	NA
4	2'6"-5'	100% 4'6"-5'	496.8 20.7	@ 2'6" - 4'6", grey PHC odor/stain sl odor, no stain from 4'6"-5'	
6	5-10	30%	221	Brown, sandy CLAY, no stain, but PHC odor, moist	
8					
10				SAA	
12	10-15	50%	3.7		
14					
16	14'10"-15'	100%	0.82	@ 14'10", grey, w/ non-distinct odor and minor gravel/cobble	
18			Inadequate volume		
20				Refusal @ 15'6"	
22					
24					
26					
28					
30					

Samples: BH-16 (2'6" - 4'6") @ 1000

	Project: Lone Pine	Boring ID: BH-17
	Date: 10/19/22	Logged By: KS
	Location: MS CTB	Elevation:
	Drilling Company: HRL	Drill Method: Direct Push
	Diameter: 2"	Sample Interval: 5'
	Completion: NA	Total Depth: 15'

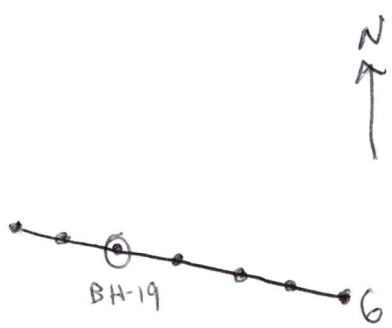
Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5	55%	0.2	brown to dk brown clayey SAND w/ gravel, moist, poss stain, non-distinct odor	NA
4				no stain/odor @ 4'6"	
6	5-10	95%	0.1	brown, sandy CHALK w/ minor gravel, moist, no stain, no odor	
8					
10	10-15	95%	0.1	SAA, calc filled fractures	
12					
14				SAA but @ 15', grey, non-distinct odor and then COBBLE	
16				Refusal @ 15'	
18					
20					
22					
24					
26					
28					
30					

No Samples

	Project:	Lone Pine	Boring ID:	BH-18
	Date:	10/19/22	Logged By:	KS
	Location:	MS CTB	Elevation:	
	Drilling Company:	HRL	Drill Method:	Direct Push
	Diameter:	2"	Sample Interval:	5'
	Completion:	NA	Total Depth:	14'6"

Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:	
2	0-5	70%	0.6	Brown to dk brown sandy CLAY moist, minor gravel 0-1' dk brown w/ poss st odor/stain from 0-1', then brown no odor no stain from 1-4' w/ calc filled fractures	NA	
4			0.5			
6	5-10	100%	0.2	SAA, brown sandy clay, calc minor gravel, no stain no odor		
8						
10	10-14'6"	100%	0.1	SAA, but increase in moisture		
12						
14						1.1
16				Refusal @ 14'6"		
18						
20						
22						
24						
26						
28						
30						

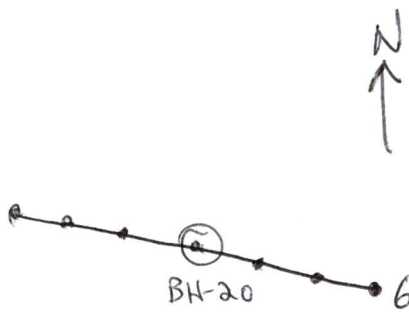
Samples: BH-18 (0-1') @ 1040 only 2 jars
BH-18 (13'6"-14'6") @ 1050

	Project:	Lone Pine	Boring ID:	BH-19
	Date:	10/19/22	Logged By:	KS
	Location:	MS CTB	Elevation:	
	Drilling Company:	HRL	Drill Method:	Direct Push
	Diameter:	2"	Sample Interval:	5'
	Completion:	NA	Total Depth:	18'

Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5	80%	2.7	Brown, sandy CLAY w/ minor gravel moist no odor, no stain	NA
4			215.5	PAC stain, odor, grey from 3'6" to black	
6	5-10	100%	1553	SAA, crude oil seeping from soil @ 9' 9'-10'	
8					
10	10-15	100%	2352	SAA minor crude oil seeping 14'-15'	
12					
14	15-18	100%	1668	SAA	
16					
18				SAND, grey/black PAC stain odor @ 17'	
20					
22				Refusal @ 18'	
24					
26					
28					
30					

Sample BH-19 (5-10') @ 1055

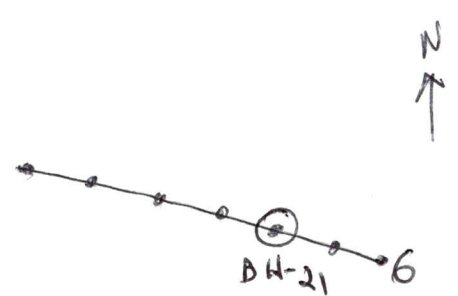
BH-19 (~~5~~-18') @ 1100

				Project: Lone Pine	Boring ID: BH-20
				Date: 10/19/22	Logged By: KS
				Location: MS CTB	Elevation:
				Drilling Company: HRL	Drill Method: Direct Push
				Diameter: 2"	Sample Interval: 5'
				Completion: NA	Total Depth: 19'
Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5	20%	16.1	dk brown clayey SAND w/ gravel, sl moist, no odor poss staining	NA
4	5-10	80%	1.0	Brown, sandy CLAY, moist no odor, no stain	
6			1.1	grey w/ PAC stain/odor @ 8'6"-10'	
8	10-15	100%	2.5	SAA grey w/ PHC stain odor sand lense @ 12-12'6"	
10					
12	15-19	95%	6.0	Grey SAND, v. moist poss stain? non-distinct odor	
14					
16				Refusal @ 19'	
18					
20					
22					
24					
26					
28					
30					

Samples

BH-20 (0-5) @ 1133

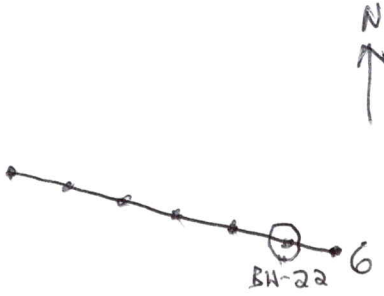
BH-20 (10-15) @ 1135

	Project: Lone Pine	Boring ID: BH-21
	Date: 10/19/22	Logged By: KS
	Location: MS CTB	Elevation:
	Drilling Company: HRL	Drill Method: Direct Push
	Diameter: 2"	Sample Interval: 5'
	Completion: NA	Total Depth: 17'6"

Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5	55%	0.0	Brown, sandy CLAY w/ minor gravel, sl moist, no stain, no odor	NA
4					
6				SAA, but increase in moisture	
8	5-10	100%	0.0		
10				SAA, large cobble @ 12'6"	
12	10-15	95%	0.0	increase in sand and moisture from 12'6" - 15'	
14					
16	15-17'6"	100%	0.1	SAA,	
18			0.4	@ 17', grey, non-distinct odor, (swamp odor)	
20				Refusal @ 17'6"	
22					
24					
26					
28					
30					

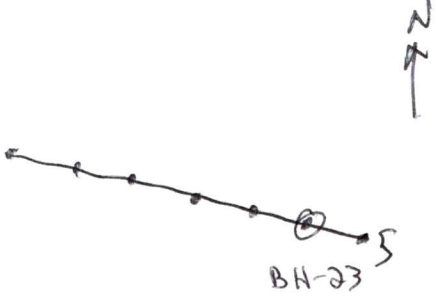
Refusal @ 17'6"

NO samples

	Project:	Lone Pine	Boring ID:	BH-22
	Date:	10/19/22	Logged By:	KS
	Location:	MS CTB	Elevation:	
	Drilling Company:	NRL	Drill Method:	Direct Push
	Diameter:	2"	Sample Interval:	5'
	Completion:	NA	Total Depth:	17'6"

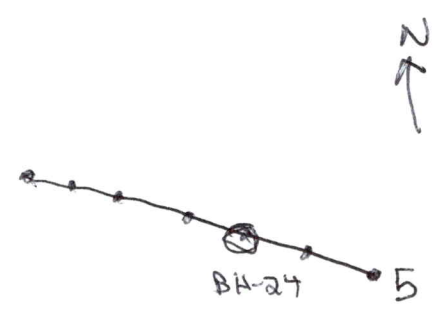
Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5	85%	0.2	Brown, sandy CLAY w/ gravel moist, calc filled fractures, no odor, no stain	NA
4					
6	5-10	100%	0.2	SAA, increase in moisture	
8					
10				Brown, clayey SAND, no stain, no odor moist	
12	10-15	100%	0.0	SAA, sandy CLAY from 12'-12'6" then clayey SAND again	
14					
16	15-17'6"	100%	0.1	SAA, but v. moist from 16'6" - 17'6"	
18				Refusal @ 17'6"	
20					
22					
24					
26					
28					
30					

Samples: BH-22 (0-5) @ 1230

	Project:	Lone Pine	Boring ID:	BH-23
	Date:	10/19/22	Logged By:	KS
	Location:	MS CTB	Elevation:	
	Drilling Company:	HRL	Drill Method:	Direct Push
	Diameter:	2"	Sample Interval:	5'
	Completion:	NA	Total Depth:	19'

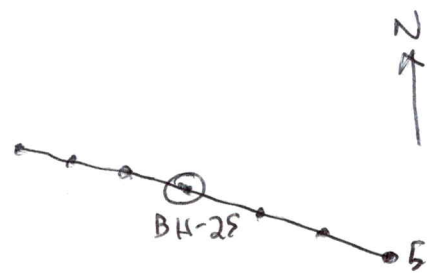
Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5	50%	0.2	Brown, SAND w/ gravel dry, no odor, no stain	NA
4					
6	5-10	70%	0.1	Brown, clayey SAND, moist, no odor, no stain	
8					
10					
12	10-15	95%	0.1	SAA, but increase in sand and moisture @ 14'	
14					
16	15- 18	100%	0.2	SAA, v. moist	
18	19'		0.2	Greyish, non-distinct odor @ 18'6" to 19'	
20				Refusal @ 19'	
22					
24					
26					
28					
30					

No Samples.

	Project:	Lone Pine	Boring ID:	BH-24
	Date:	10/19/22	Logged By:	KS
	Location:	MS CTB	Elevation:	
	Drilling Company:	HRL	Drill Method:	Direct Push
	Diameter:	2"	Sample Interval:	5'
	Completion:	NA	Total Depth:	18'

Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5	50%	0.3	Brown to dk brown, clayey SAND w/ minor gravel SI moist, no odor, no stain	NA
4					
6	5-10	90%	0.2	Brown, clayey sandy CLAY calc filled fractures, moist, no odor no stain	
8					
10	10-15	100%	0.1	SAA but increase in sand content, less calc filled fractures	
12					
14	15-18	100%	0.7	grey clayey sand, v. moist, non distinct (swamp) odor	
16					
18				SAA, increase in silt and moisture 17'-18'	
20				Refusal @ 18'	
22					
24					
26					
28					
30					

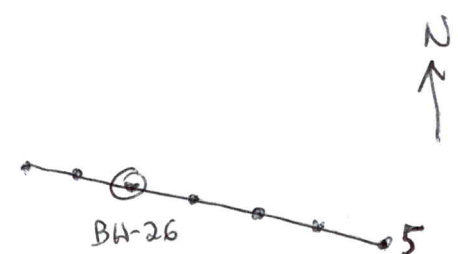
Samples BH-~~24~~²⁴ (0-5) @ 1310
BH-~~24~~²⁴ (15-18) @ 1320
24

	Project:	Lone Pine	Boring ID:	BH-25
	Date:	10/19/22	Logged By:	KS
	Location:	MS CTB	Elevation:	
	Drilling Company:	HRL	Drill Method:	Direct Push
	Diameter:	2"	Sample Interval:	5'
	Completion:	NA	Total Depth:	18'

Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5	30%	597.3	dk Brown to grey, sandy CLAY w/ gravel, PHC odor, stain, moist	NA
4					
6	5-10	100%	1839	SAA w/ PHC odor/stain, grey	
8					
10					
12	10-15	70%	154.7	SAA Grey clayey SAND, v. moist poss PHC odor/stain	
14					
16	15-18	100%	506	SAA, increase in moisture and silt @ 17', s/ PHC odor/stain	
18					
20				Refusal @ 18'	
22					
24					
26					
28					
30					

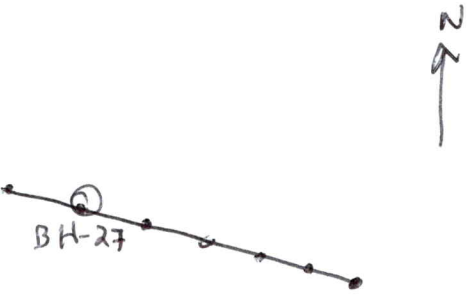
Samples:

BH-25 (0-5') @ 1330

	Project:	Lone Pine	Boring ID:	BH-26
	Date:	10/19/22	Logged By:	KS
	Location:	MS CTB	Elevation:	
	Drilling Company:	HRL	Drill Method:	Direct Push
	Diameter:	2"	Sample Interval:	5'
	Completion:	NA	Total Depth:	19'

Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5	60%	0.2	Brown, clayey SANDY gravel, si moist, no stain, no odor	NA
4				Brown sandy CLAY, moist, no stain, no odor, calc filled fractures	
6	5-10	95%	8.5	SAA, but grey, pass PHC odor or swamp odor	
8					
10	10-15	100%	10.7	SAA, PHC odor, grey	
12					
14	15-19	90%	1586	SAA, seeping crude oil	
16					
18				Refusal @ 19'	
20					
22					
24					
26					
28					
30					

Samples: BH-26 (15-19) @ \$1400

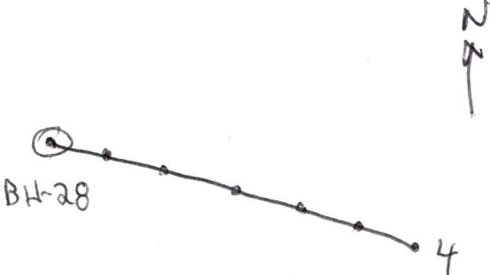
	Project: Lone Pine	Boring ID: BH-27
	Date: 10/19/22	Logged By: KS
	Location: MS CTB	Elevation:
	Drilling Company: HRL	Drill Method: Direct Push
	Diameter: 2"	Sample Interval: 5'
	Completion: NA	Total Depth: 17' 6"

Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5	70%	2.1	Brown, sandy CLAY, w/ gravel no sl moist, no odor, no stain except for 1" @ 2'6" of grey, sl PHC odor	NA
4					
6	5-10	90%	0.2	SAA, no gravel, calc filled fractures, moist, no stain, no odor	
8					
10				SAA	
12	10-14	100%	0.1		
14					
16	14-17'6"	100%	1.3	SAA, but increase in sand, moisture, and grey w/ non-distinct odor from 14-17'6"	
18					
20				Refusal @ 17'6"	
22					
24					
26					
28					
30					

Samples

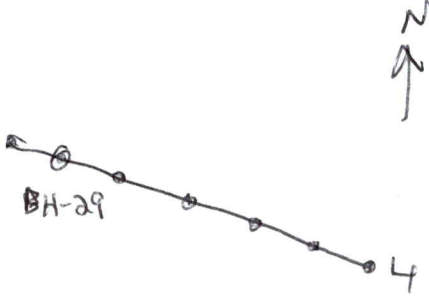
BH-27 (14-17'6")

1430

	Project: Lone Pine	Boring ID: BH-28
	Date: 10/19/22	Logged By: KS
	Location: MS CTB	Elevation:
	Drilling Company: HRL	Drill Method: Direct Push
	Diameter: 2"	Sample Interval: 5'
	Completion: NA	Total Depth: 16'6"

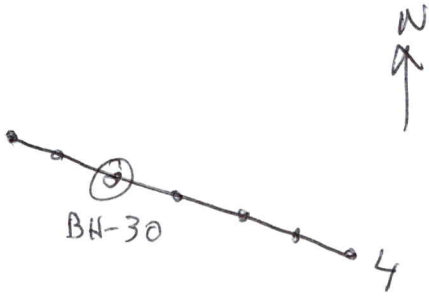
Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5	70%	0.1	Brown, clayey SAND w/ minor gravel, moist, no odor, no stain	NA
4					
6	5-10	90%	0.0	Brown, sandy CLAY, calc filled fractures, moist, no odor, no stain	
8					
10				SAA	
12	10-15	100%	0.1	increase in silt and moisture @ 14'	
14		14'6"-15'	0.1	grey/brown @ 14'6", non distinct odor	
16	15-16'6"	100%	0.0	SAA, then COBBLE and SAND	
18			0.1	@ 16' w/ black color, no no odor	
20				Refusal @ 16'6"	
22					
24					
26					
28					
30					

No samples

	Project: Lone Pine	Boring ID: BH-29
	Date: 10/19/22	Logged By: KS
	Location: MS CTB	Elevation:
	Drilling Company: HRL	Drill Method: Direct Push
	Diameter: 2"	Sample Interval: 5'
	Completion: NA	Total Depth: 18'

Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5	50%	1.1	Brown, sandy CLAY, moist no odor, some minor gravel cobble from 0-1'	NA
4				DK stain, poss PHC odor 3'6"-3'8"	
6	5-10	100%	0.5	Brown SAA, no gravel, calc filled fractures, no stain, no odor	
8					
10	10-15	100%	0.3	SAA, but increase in SAND and moisture @ 14'	
12					
14	15-18	100%	0.39.4	Clayey SAND, grey, SI PHC odor v. moist	
16					
18				Refusal @ 18'	
20					
22					
24					
26					
28					
30					

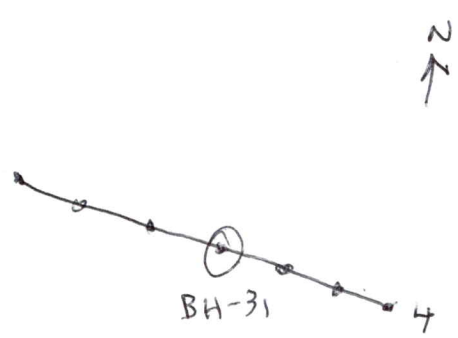
Samples: BH-29 (0-5) @ 1515
BH-29 (15-18) @ 1525

	Project: Lone Pine	Boring ID: BH-30
	Date: 10/19/22	Logged By: KS
	Location: MS CTB	Elevation:
	Drilling Company: HRL	Drill Method: Direct Push
	Diameter: 2"	Sample Interval: 5'
	Completion: NA	Total Depth: 18'

Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5	25%	0.4	Brown, SAND w/ gravel, moist no odor, no stain	
4					
6	5-10	100%	97.6	Grey, sandy CLAY, S1 PHC odor and stain, v. moist	
8					
10					
12	10-15	100%	1588	SAA but strong PHC odor/stain seeping crude oil @ 14'	
14					
16	15-18	100%	1139	SAA increase in moisture @ 16'6", SAND, PHC odor/stain, crude oil	
18				Refusal @ 18'	
20					
22					
24					
26					
28					
30					

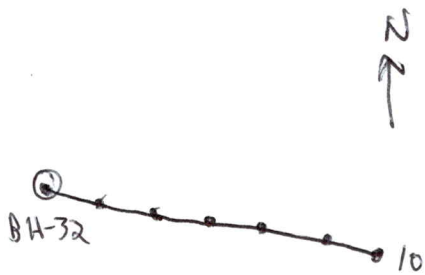
Sample

BH-30 (15-18') @ 1540

	Project:	Loae Pine	Boring ID:	BH-31
	Date:	10/19/22	Logged By:	KS
	Location:	MS CTB	Elevation:	
	Drilling Company:	HRL	Drill Method:	Direct Push
	Diameter:	2"	Sample Interval:	5'
	Completion:	NA	Total Depth:	19'

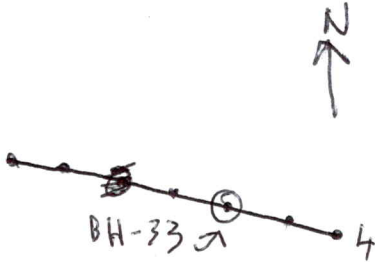
Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5	55%	634.9	dk brown to grey sandy CLAY w/ minor gravel, PHC odor/stain	NA
4					
6	5-10	100%	2686	SAA, seeping crude oil	
8					
10	10-15	55%	1611	SAA, seeping crude oil v. moist to wet	
12					
14	15-19	50%	1937	Grey SAND @ 16', PHC odor and stain, v. moist	
16					
18				Refusal @ 19'	
20					
22					
24					
26					
28					
30					

Samples: BH-31 (0-5) @ 1600
BH-31 (15-19) @ 1610

	Project:	Lone Pine	Boring ID:	BH-32
	Date:	10/20/22	Logged By:	KS
	Location:	MS CTB	Elevation:	
	Drilling Company:	HRL	Drill Method:	Direct Push
	Diameter:	2"	Sample Interval:	5'
	Completion:	NA	Total Depth:	15'6"

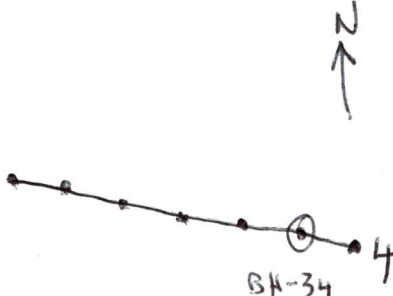
Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5	60%	14.4 13.0	Brown to dk brown sandy CLAY, minor gravel, PNC staining and odor from 0-3'	NA
4			24.4 5.7		
6	5-10	95%	0.2	Brown sandy CLAY, SAN but no stain no odor, moist	
8					
10	10-15	30%	1.3 13.3	SAN, increase in moisture @ 14'	
12					
14	15-15'6"	100%	14.8 5.3	Refusal @ 15'6"	
16					
18					
20					
22					
24					
26					
28					
30					

Samples BH-32 (0-0') @ 0835
3

	Project: Lone Pine	Boring ID: BH-33
	Date: 10/20/22	Logged By: KS
	Location: MS CTB	Elevation:
	Drilling Company: HRL	Drill Method: Direct Push
	Diameter: 2"	Sample Interval: 5'
	Completion: NA	Total Depth: 18'

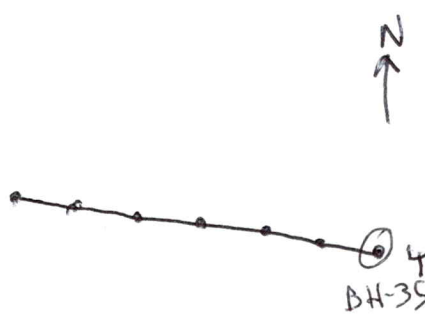
Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5	70%	0.5	Brown, sandy CLAY, no stain, no odor moist, minor gravel minor PHC stain/odor 1" from 2'6" to 2'7"	NA
4					
6	5-10	30%	302.1	SAA, but PHC odor/stain	
8					
10					
12	10-15	100%	636.9	SAA, very strong PHC odor/stain	
14					
16	15-18	100%	414.4	SAA 15-16' Clayey SAND, v. moist, @ 16' Seeping crude oil, stain, odor	
18					
20				Refusal @ 18'	
22					
24					
26					
28					
30					

Samples: BH-33 (0-5) @ 0905
BH-33 (5-10') @ 0915

	Project:	Lone Pine	Boring ID:	BA-34
	Date:	10/20/22	Logged By:	KS
	Location:	MS CTB	Elevation:	
	Drilling Company:	HRL	Drill Method:	Direct Push
	Diameter:	2"	Sample Interval:	5'
	Completion:	NA	Total Depth:	18'

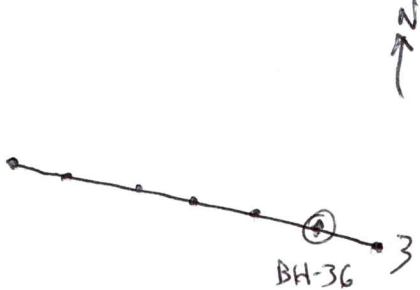
Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5	80%	0.6	Brown, sandy CLAY, calc-filled frag. no stain, no odor, moist, minor gravel	NA
4					
6	5-10	100%	0.5	SAA	
8					
10	10-15	100%	0.2	SAA	
12					
14	15-18	100%	0.1	@ 12'6", brown, clayey SAND, no stain no odor, moist	
16					
18			0.1	@ 16'6", grey, non-distinct odor V. moist	
20				Refusal @ 18'	
22					
24					
26					
28					
30					

Samples BH-34 (0-5) @ 0940
BH-34 (~~0000~~ 16'6"-18') @ 0945

	Project:	Lone Pine	Boring ID:	BH-35
	Date:	10/20/22	Logged By:	KS
	Location:	MS CTB	Elevation:	
	Drilling Company:	HRL	Drill Method:	Direct Push
	Diameter:	2"	Sample Interval:	5'
	Completion:	NA	Total Depth:	19'

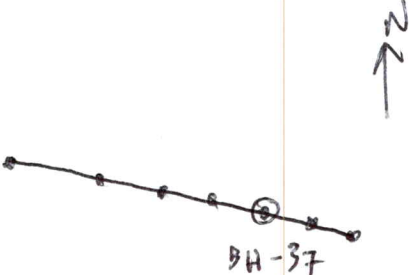
Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5	80%	0.1	Brown, sandy CLAY w/ minor gravel, moist, no odor, no stain	NA
4					
6	5-10	100%	0.3	SAA	
8					
10	10-15	100%	0.5	SAA, but increase in sand/silt content, and moisture no stain, no odor	
12					
14	15-19	80%	0.3	SAA but v. moist to wet no stain no odor	
16					
18					
20				Refusal @ 19'	
22					
24					
26					
28					
30					

No Samples

	Project: Lone Pine	Boring ID: BH-36
	Date: 10/20/22	Logged By: KS
	Location: MS CTB	Elevation:
	Drilling Company: HRL	Drill Method: Direct Push
	Diameter: 2"	Sample Interval: 5'
	Completion: NA	Total Depth: 19'

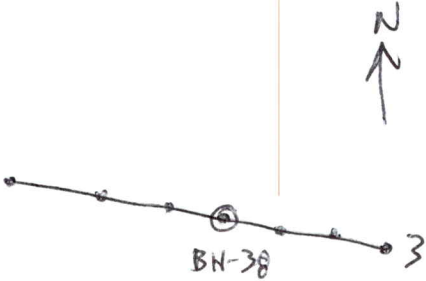
Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5	65%	0.5	Brown, sandy CLAY, minor gravel moist, no odor, no stain calc filled fractures	NA
4					
6	5-10	95%	0.1	SAA	
8					
10	10-15	95%	0.1	SAA, increase in moisture	
12					
14	15-19	100%	0.0	SAND, w/ clay/cobble, gray non-distinct odor	
16					
18					
20				Refusal @ 19'	
22					
24					
26					
28					
30					

Samples: BH-36 (0-5) @ 1010

	Project:	Lone Pine	Boring ID:	BH-37
	Date:	10/20/22	Logged By:	KS
	Location:	MS CTB	Elevation:	
	Drilling Company:	HRL	Drill Method:	Direct Push
	Diameter:	2"	Sample Interval:	5'
	Completion:	NA	Total Depth:	22

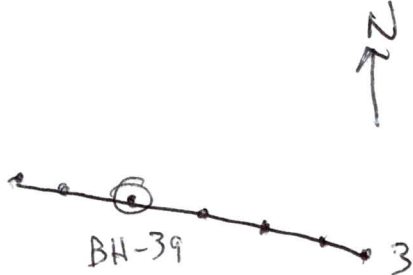
Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5	65%	0.3	Brown to greyish brown, sandy CLAY, minor gravel, calc filled fractures, moist, no odor, no stain	
4					
6	5-10	100%	0.3	SAA, but less sand, no gravel greyish brown, non-distinct odor (swamp) no odor	
8					
10					
12	10-15	100%	0.4	SAA, increase in sand content @ 14'	
14					
16	15-20	100%	2.9	Clayey SAND, grey, non-distinct odor, v. moist, w/ cobble	
18					
20	20-22	100%	133.7	SAA, w/ sl PHC odor	
22					
24				Refusal @ 22	
26					
28					
30					

Samples: BH-37 (5-10) @ 1025
BH-37 (20-22) @ 1035

	Project: Lone Pine	Boring ID: BH-38
	Date: 10/20/22	Logged By: KS
	Location: MS CTB	Elevation:
	Drilling Company: HRL	Drill Method: Direct Push
	Diameter: 2"	Sample Interval: 5'
	Completion: NA	Total Depth:

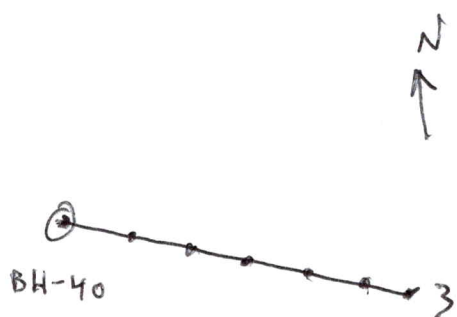
Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5	90%	0.1	dk brown, sandy CLAY w/ gravel moist, sl PHC stain, sl odor	
4					
6	5-10	10%	207.3	SAA, but strong PHC stain/odor no gravel	
8					
10					
12	10-15	100%	658.8	SAA, increase in sand content, seeping crude oil	
14					
16	15-20	90%	817.6	SAA but w/ interbedded sand lenses and cobble seeping crude oil	
18					
20	20-22	100%	950.1		
22					
24					
26					
28					
30					

Samples: BH-38 (0-5) @ 1050
BH-38 (20-22) @ 1055

	Project:	Lone Pine	Boring ID:	BH-39
	Date:	10/20/22	Logged By:	KS
	Location:	MS CTB	Elevation:	
	Drilling Company:	HRL	Drill Method:	Direct Push
	Diameter:	2"	Sample Interval:	5'
	Completion:	NA	Total Depth:	20'

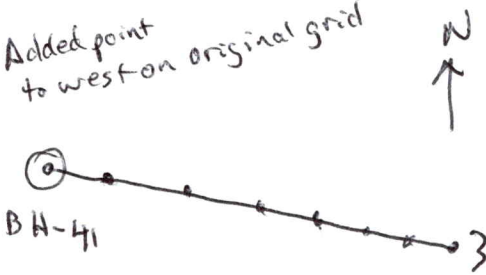
Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5	70%	NA	Grey, sandy CLAY, moist PHC odor/stain minor gravel 0-1 is dk brown no stain, sl odor sig	NA
4			3.7		
6	5-10	90%	3.7	SAA w/ PHC stain/odor Calc filled fractures, no gravel	
8					
10	10-15	90%	4.2	SAA, with sl PHC odor, non-distinct odor, increase in moisture/sand sand lens (grey) from 14'-14'2"	
12					
14	15-20	95%	526.1	Interbedded grey SAND, CLAY, and COBBLE, PHC odor/stain seeping crude oil	
16					
18				Refusal @ 20'	
20					
22					
24					
26					
28					
30					

Samples: BH-39 (0-5) 1115
1

	Project:	Lone Pine	Boring ID:	BA-40
	Date:	10/20/22	Logged By:	KS
	Location:	MS CTB	Elevation:	
	Drilling Company:	HRL	Drill Method:	Direct Push
	Diameter:	2"	Sample Interval:	5'
	Completion:	NA	Total Depth:	

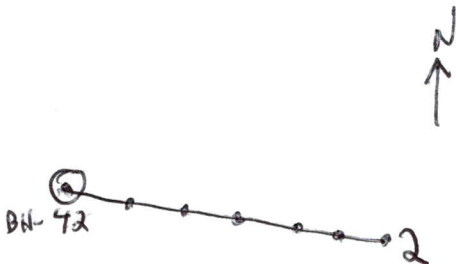
Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5	55%	0.2	Brown, sandy CLAY w/ minor gravel no stain, no odor, moist	
4					
6	5-10	95%	0.1	SAA, but less sand no gravel calc filled fractures, no stain, no odor	
8					
10				SAA	
12	10-14' 6"	100%	0.1	Brown SAND, no stain, no odor, moist Brown sandy CLAY, no stain, no odor moist, calc filled fractures	
14'6"					
16	14'6"- 20	100%	54.6	Grey, SAND, CLAY, and COBBLE interbedded, non-distinct odor	
18					
20			734.0	@ 19'6", SAND, grey PHC odor/stain	
22				Refusal @ 20'	
24					
26					
28					
30					

Samples: BH-40 (19'6" - 20') @ 1135
Two jars only

<p>Added point to west on original grid</p> 	Project:	Lone Pine	Boring ID:	BH-41
	Date:	10/20/22	Logged By:	KS
	Location:	MS CTB	Elevation:	
	Drilling Company:	HRL	Drill Method:	Direct Push
	Diameter:	2"	Sample Interval:	5'
	Completion:	NA	Total Depth:	22'

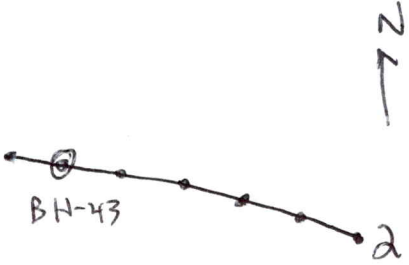
Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5	85%	0.2	Brown sandy CLAY grey moist , no odor, no stain sand lense (1" thick) @ 2' 8" Calc filled fractures	
4					
6	5-10	95%	0.1	SAA, CLAY, minor gravel	
8					
10	10-15	95%	0.1	SAA, but increase in SAND and moisture	
12					
14		0.5 →	0.5	Grey, non-distinct odor @ 14' 6"	
16	15-20	85%	884.1	SAND + COBBLE + GRAVEL moist , dk grey, black stain, PHC odor	
18					
20	20-22	100%	1563	SAA	
22					
24				Refusal @ 22'	
26					
28					
30					

No Samples

	Project: Lone Pine	Boring ID: BH-42
	Date: 10/20/22	Logged By: KS
	Location: MS CTB	Elevation:
	Drilling Company: WRL	Drill Method: Direct Push
	Diameter: 2"	Sample Interval: 5'
	Completion: NA	Total Depth: 18'

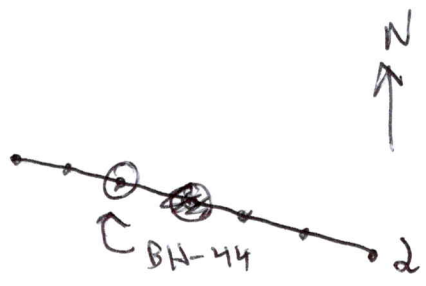
Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5	90%	0.0	Brown to dk brown sandy CLAY w minor gravel, moist, no odor, no stain	
4					
6	5-10	90%	0.3	SAA, no gravel	
8					
10	10-15	90%	0.1	SAA increase in SAND, SAND lense 13'6" - 13'-18"	
12				Increase in moisture @ 13'6"	
14	15-18	100%	0.2	Interbedded SAND, COBBLE + GRAVEL dk greyish color, moist, non-distinct odor	
16					
18					
20				Refusal @ 18'	
22					
24					
26					
28					
30					

Samples: BH-42 (15-18') @ 1300

	Project:	Lone Pine	Boring ID:	BH-43
	Date:	10/20/22	Logged By:	KS
	Location:	MS CTB	Elevation:	
	Drilling Company:	HRL	Drill Method:	Direct Push
	Diameter:	2"	Sample Interval:	5'
	Completion:	NA	Total Depth:	21'6"

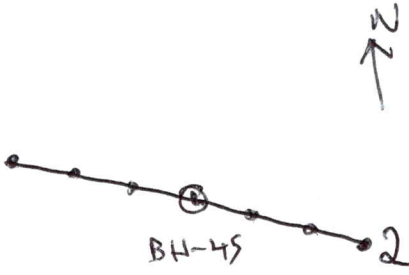
Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5	55%	0.2	Brown to dk brown sandy CLAY w/ gravel, moist no odor s/ stain from 2'6" to 2'7"	NA
4					
6	5-10	95%	0.1	SAA, increase in moisture, no stain, no odor	
8					
10				SAA, but sand lense 12-12'5" and 14-14'2"	
12	10-15	95%	0.1	grey, no distinct odor @ 14'6"-15'	
14					
16				Interbedded SAND, COBBLE	
18	15-20	100%	407.6	dk black staining, PNC odor from 19-20'. Non distinct odor from 15-19'	
20	20-21'6"	100%	195.5		
22					
24				Refusal @ 21'6"	
26					
28					
30					

SAMPLES: BH-43 (10-15) @ 1315

	Project:	Lone Pine	Boring ID:	BH-44
	Date:	10/20/22	Logged By:	KS
	Location:	MS CTB	Elevation:	
	Drilling Company:	HRL	Drill Method:	Direct Push
	Diameter:	2"	Sample Interval:	5'
	Completion:	NA	Total Depth:	24'

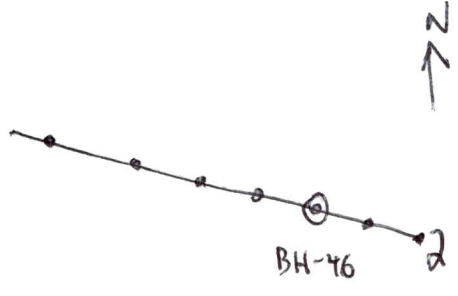
Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5	35%	21.3	DK brown to grey, sandy CLAY, w/ minor gravel, moist PHC stain, PHC odor	NA
4	5-10	5-9'4"	3.2	SAA, no gravel, no PHC odor or stain, calc filled fractures	
6		100%			
8	10-15	9'4"	2.8	Grey, SAA, no odor @ 9'4"	
10		85%			
12	15-20	12'6"	2.8	SAA w/ nondistinct odor, increase in SAND, moisture	
14		3.9			
16	20-24	608.8	608.8	SAA, increase in silt, SAND, moisture, seeping crude oil, PHC odor	
18		80%			
20		17'6"	181.8	@ 17'6", SAND + COBBLE, PHC odor, and stain	
22		100%			
24				SAND + COBBLE, PHC stain + odor	
26				Refusal @ 24'	
28					
30					

Samples BH-44 (5-9'4") @ 1340
BH-44 (20-24') @ 1345

	Project: Lone Pine	Boring ID: BH-45
	Date: 10/20/22	Logged By: KS
	Location: MS CTB	Elevation:
	Drilling Company: HRL	Drill Method: Direct Push
	Diameter: 2"	Sample Interval: 5'
	Completion: NA	Total Depth: 20'

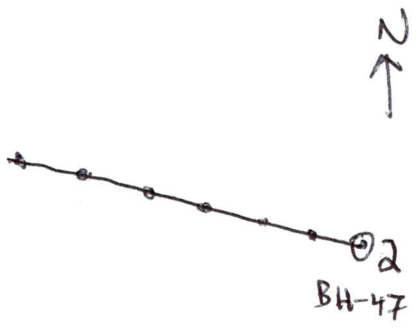
Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5	40%	7.7	DK brown to grey sandy CLAY w/ minor gravel, PHC odor and stain	NA
4					
6	5-10	90%	465.9	SAA, but no gravel, grey PHC odor and stain	
8					
10					
12	10-15	100%	312.7	SAA, but increase in sand/silt and moisture PHC stain and odor	
14					NA
16	15-20	100%	99.0	Grey SAND and COBBLE PHC stain and odor	
18					
20					
22				Refusal @ 20'	
24					
26					
28					
30					

samples: BH-45 (15-20') @ 1405

	Project: Lone Pine	Boring ID: BH-46
	Date: 10/20/22	Logged By: KS
	Location: MS CTB	Elevation:
	Drilling Company: HRL	Drill Method: Direct Push
	Diameter: 2"	Sample Interval: 5'
	Completion: NA	Total Depth: 22'6"

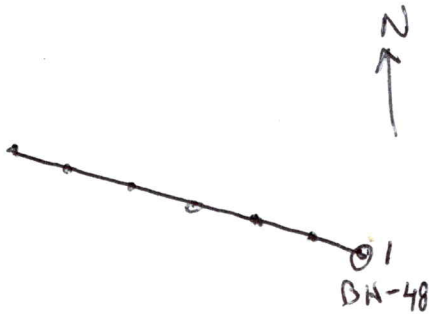
Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5	50%	0.4	Brown, sandy CLAY, moist no odor, no stain, minor gravel	NA
4					
6	5-10	85%	0.3	SAA, but calc filled fractures	
8					
10				Grey clayey SAND, non-distinct odor,	
12	10-15	95%	0.4		
14					
16				SAND, COBBLE, grey, non-distinct odor	
18	15-20	95%	2.6		
20					
22	20-22'6"	60%	1692	SAA, but PHC odor	
24				Refusal @ 22'6"	
26					
28					
30					

Samples @ BH-46 (0-5) @ 1430

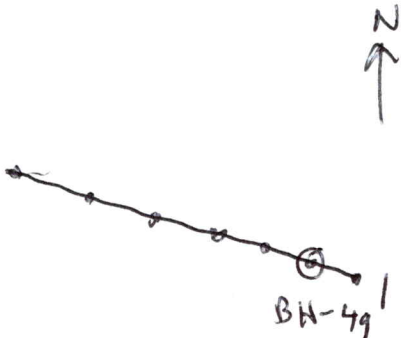
	Project: Lone Pine	Boring ID: BH-47
	Date: 10/20/22	Logged By: KS
	Location: MS CTB	Elevation:
	Drilling Company: HRL	Drill Method: Direct Push
	Diameter: 2"	Sample Interval: 5'
	Completion: NA	Total Depth: 20'

Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5	85%	0.4	Brown, sandy CLAY, minor gravel, no stain, no odor, moist	NA
4					
6	5-10	100%	0.2	SAA, no gravel	
8					
10	10-15	100%	0.0	SAA, but increase in moisture and sand/silt content	
12					
14					
16	15-20	100%	NA	Brown, SAND, v. moist, no stain, no odor, minor clay	
18			0.5		
20			0.9	Grey, non-distinct odor	
22					
24				Refusal @ 20'	
26					
28					
30					

Samples
 BH-47 (18-19') @ 1500 two jars only
 BH-47 (~~18-19'~~)
 19'6"-20' @ 1505 two jars only

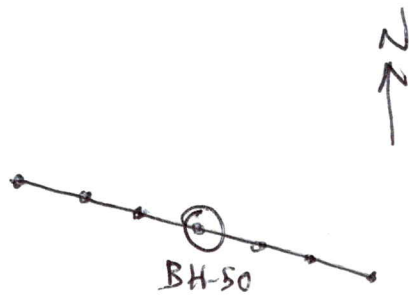
				Project: Lone Pine	Boring ID: BH-48
				Date: 10/20/22	Logged By: KS
				Location: MS CTB	Elevation:
				Drilling Company: HRL	Drill Method: Direct Push
				Diameter: 2"	Sample Interval: 5'
				Completion: NA	Total Depth: 19'
Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5	95%	0.2	Brown, sandy CLAY, calc filled fractures, moist, no odor, no stain	NA
4					
6				SAA	
8	5-10	95%	0.5		
10				SAA but increase in sand/silt and moisture	
12	10-15	90%	0.6	no stain, no odor	
14					
16	15-19	95%	0.4	Clayey SAND, brown, v. moist to wet, no stain no odor	
18		18'9"	0.7	Grey w/ non-distinct odor @ 18'9"	
20					
22					
24				Refusal @ 19'	
26					
28					
30					

No samples

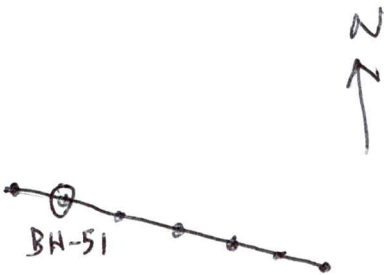
	Project: Lone Pine	Boring ID: BH-49
	Date: 10/20/22	Logged By: KS
	Location: MS CTB	Elevation:
	Drilling Company: HAL	Drill Method: Direct Push
	Diameter: 2"	Sample Interval: 5'
	Completion: NA	Total Depth: 19'

Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5	90%	0.4	Brown, sandy CLAY, w/ gravel, moist, no odor, no stain	NA
4					
6	5-10	100%	0.3	SAA, moist, no odor, no stain	
8					
10					
12	10-15	90%	0.4	SAA, but increase in moisture Sand + silt sand lense 2" thick @ 12' no odor, no stain	
14					
16	15-19	100%	0.2	SAA	
18		18'6"	1.0		
20				Grey COBBLE + SAND, non-distinct odor Refusal @ 19'	
22					
24					
26					
28					
30					

Samples BH-49(0-5) @ 1535
 BH-49(18'6"-19') @ 1540 ^{one} ~~two~~ jars only

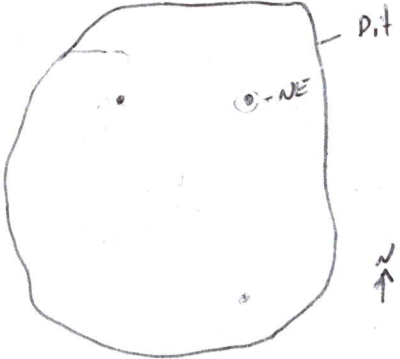
				Project: Lone Pine	Boring ID: BH-50
				Date: 10/20/22	Logged By: KS
				Location: MS CTB	Elevation:
				Drilling Company: HRL	Drill Method: Direct Push
				Diameter: 2"	Sample Interval: 5'
				Completion: NA	Total Depth: 19'
Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5	90%	1.2	Brown to dk brown, sandy CLAY, sl PHC odor, stain v. moist.	NA
4					
6	5-10	95%	568.7	Grey clayey SAND, PHC odor PHC stain, v. moist	
8					
10					
12	10-15	95%	780.1	SAND Grey sandy CLAY, v. moist, PHC odor/stain Seeping crude oil	
14					
16	15- 20 ¹⁹	95%	1148	Grey SAND + SILT, PHC odor PHC staining	
18					
20					
22				Refusal @ 19'	
24					
26					
28					
30					

Samples: BH-50 (15-19') two jars only
1600

	Project: Lone Pine	Boring ID: BH-51
	Date: 10/20/22	Logged By: KS
	Location: MS CTB	Elevation:
	Drilling Company: HRL	Drill Method: Direct Push
	Diameter: 2"	Sample Interval: 5'
	Completion: NA	Total Depth:

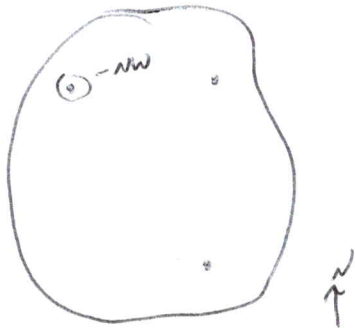
Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5	80%	1.2	Brown, sandy CLAY w/ gravel moist, no odor, no stain	NA
4					
6	5-10	85%	0.7	SAA	
8					
10					
12	10-15	100%	0.6	SAA, increase in silt/sand and moisture	
14					NA
16	15-19	100%	0.7	SAND, brown, no stain, no odor	
18			113.4	SAND + COBBLE, dk grey PHC stain/odor	
20					
22				Refusal @ 19'	
24					
26					
28					
30					

Samples? BH-51 (5-10) @ 1610
 BH-51 (16-19') @ 1625
 BH-51 (15-16') @ 1615 two jars only

	Project: Lone Pine	Boring ID: BH- 52
	Date: 10/24/2022	Logged By: EM/JH
	Location: MS CTB (NE 811) Pit	Elevation:
	Drilling Company: HRL	Drill Method: Direct Push
	Diameter: 2"	Sample Interval: 5'
	Completion: NA	Total Depth: 5'

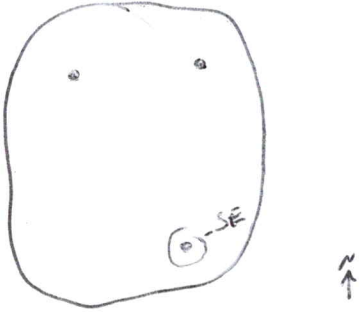
Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5	65%	23.0 ppm	Grey, Green, Brown, yellow gravel, sand, cobbles hydrocarbon odor 4-5' depth Refusal @ 5'	
4					
6					
8					
10					
12					
14					
16					
18					
20					
22					
24					
26					
28					
30					

Collect: BH⁵² (0-5') @ 1320

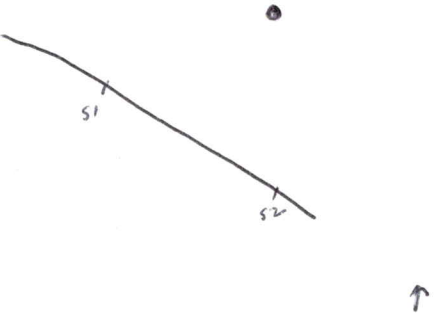
	Project: Lone Pine	Boring ID: BH- 53
	Date: 10/24 /2022	Logged By: EM/JH
	Location: MS <i>CTB pit</i>	Elevation:
	Drilling Company: HRL	Drill Method: Direct Push
	Diameter: 2"	Sample Interval: 5'
	Completion: NA	Total Depth: 0 7.5'

Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5	50%	0.1	Brown - sandy clay - no odor	
4					
6	5-7.5'	40%	10.8	Brown - sandy clay no odor	
8			39.9	6.5-7.5' grey/black sand; gravel hydrocarbon odor	
10				Refusal @ 7.5'	
12					
14					
16					
18					
20					
22					
24					
26					
28					
30					

Collect: BH-53 (0-5) @ 1330
 BH-53 (6.5-7.5) @ 1335 - 2 jars only

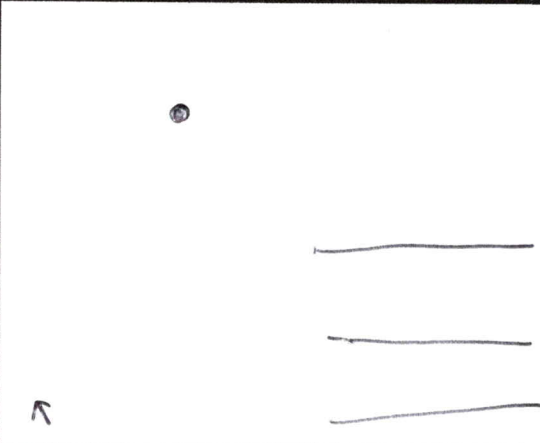
				Project: Lone Pine	Boring ID: BH- 54
				Date: 10/24/2022	Logged By: EM/JH
				Location: MS ^{CTB} pit	Elevation:
				Drilling Company: HRL	Drill Method: Direct Push
				Diameter: 2"	Sample Interval: 5'
				Completion: NA	Total Depth: 5'
Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5	70%	20	Brown, clay sand - No odor	
4				black, grey, sand, gravel, cobbles,	
6				hydrocarbon odor 4.5'-5'	
8				Refusal @ 5'	
10					
12					
14					
16					
18					
20				Pit ~ 15ft by	
22					
24					
26					
28					
30					

Collect: BH-54(0-5')/1340

	Project: Lone Pine	Boring ID: BH- 55
	Date: 10/25/2022	Logged By: EM/JH
	Location: MS CTB	Elevation:
	Drilling Company: HRL	Drill Method: Direct Push
	Diameter: 2"	Sample Interval: 5'
	Completion: NA	Total Depth: 19'

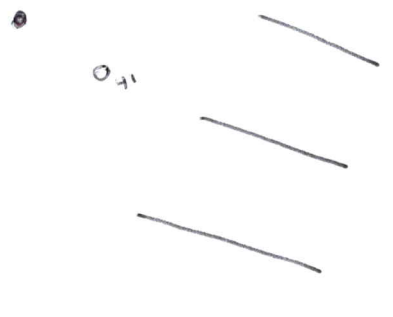
Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5	90	0.1	SANDY CLAY, brown, no stain, no odor	
4					
6	5-10	95	0.1	SAA, less sand	
8					
10	10-15	100	0.1	SAA, more sand	
12					
14	15-19	85	0.1	SAA, sandy / gravelly w/ pink, tan	
16					
18				Refusal @ 19'	
20					
22					
24					
26					
28					
30					

BH-55 (15-19') @ 1530

	Project: Lone Pine	Boring ID: BH- 56
	Date: 10/25/2022	Logged By: EM/JH
	Location: MS CTB	Elevation:
	Drilling Company: HRL	Drill Method: Direct Push
	Diameter: 2"	Sample Interval: 5'
	Completion: NA	Total Depth: 15.5'

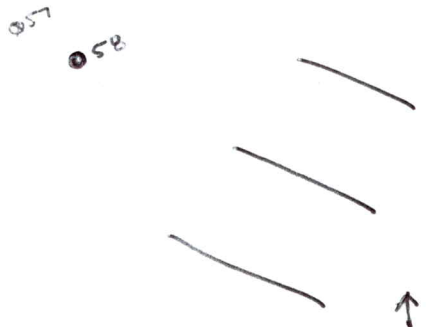
Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5	45	0.1	sandy CLAY, brown, no stain, no odor.	
4					
6				SAA	
8	5-10	85	0.1		
10				SAA	
12	10-15	80	0.0		
14					
16	15-15.5	100		SAA sand w/ gravel, brown, pink, white, green, no stain, no odor. dry	
18					
20				Refusal @ 15.5'	
22					
24					
26					
28					
30					

BH-56(15-15.5) @ 1540

	Project: Lone Pine	Boring ID: BH- 57
	Date: 10/ 25/2022	Logged By: EM/JH
	Location: MS CTB	Elevation:
	Drilling Company: HRL	Drill Method: Direct Push
	Diameter: 2"	Sample Interval: 5'
	Completion: NA	Total Depth: 15'

Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5	95	0.1	sandy CLAY, brown, moist, no stain, no odor	
4					
6	5-10	95	0.0	SAA	
8					
10	10-15	0	-	no recovery	
12					
14					
16				Refusal @ 15'	
18					
20					
22					
24					
26					
28					
30					

BH-57 (5-10') @ 1100 (2.5 hrs) no sample

	Project: Lone Pine	Boring ID: BH- 58
	Date: 10/25/2022	Logged By: EM/JH
	Location: MS CTB	Elevation:
	Drilling Company: HRL	Drill Method: Direct Push
	Diameter: 2"	Sample Interval: 5'
	Completion: NA	Total Depth: 15'

Depth:	Sample Interval:	Recovery:	PID:	Lithology:	Completion:
2	0-5	85	0.1	CLAY, brown w/ sand, moist, no stain, no odor	
4					
6				SAA	
8	5-10	100	0.2		
10					
12					
14	10-15	100	0.2	SAA	
16				Refusal @ 15'	
18					
20					
22					
24					
26					
28					
30					

ATTACHMENT 2



Photo 1: Margaret Spaulding Centralized Tank Battery overall site, 10/19/2022.



Photo 2: Geoprobe drill rig, 10/19/2022.



Photo 3: Margaret Spaulding Centralized Tank Battery borehole 26 in Geoprobe sleeve. Oil observed in soil, 10/19/2022.

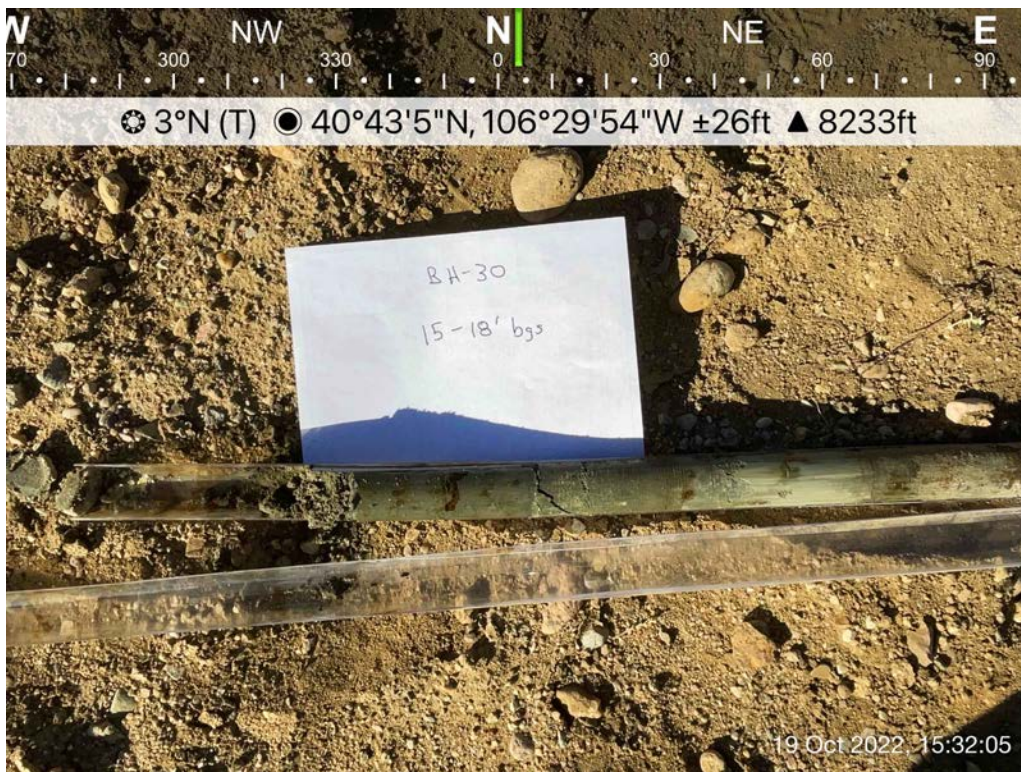


Photo 4: Margaret Spaulding Centralized Tank Battery borehole 30 in Geoprobe sleeve. Oil observed in soil, 10/19/2022.

ATTACHMENT 3



75 Suttle Street
Durango, CO 81303
970.247.4220 Phone
970.247.4227 Fax
www.greenanalytical.com

30 November 2022

Kyle Siesser
Cottonwood Consulting
PO Box 1653
Durango, CO 81302
RE: COGCC Table 915-1

Enclosed are the results of analyses for samples received by the laboratory on 10/22/22 15:00. The data to follow was performed, in whole or in part, by Green Analytical Laboratories. Any data that was performed by a subcontract laboratory is included within the GAL report, or with an additional report attached.

If you need any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads 'Jeremy D. Allen'.

Jeremy D Allen
Laboratory Director

All accredited analytes contained in this report are denoted by an asterisk (*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at <http://greenanalytical.com/certifications/>

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water. TNI Certificate Number: T104704514-22-15

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8. TNI Certificate Number: T104704398-22-15



Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: MS Centralized Tank Battery	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	11/30/22 10:49

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
BH-2 (0-5')	2210207-01	Solid	10/18/22 11:35	10/22/22 15:00	
BH-3 (0-5')	2210207-02	Solid	10/18/22 12:00	10/22/22 15:00	
BH-4 (0-4')	2210207-03	Solid	10/18/22 12:35	10/22/22 15:00	
BH-5 (0-5')	2210207-04	Solid	10/18/22 12:45	10/22/22 15:00	
BH-6 (10-15')	2210207-05	Solid	10/18/22 13:30	10/22/22 15:00	
BH-8 (18'6"-19')	2210207-06	Solid	10/18/22 14:30	10/22/22 15:00	
BH-9 (1-5'6")	2210207-07	Solid	10/18/22 15:00	10/22/22 15:00	
BH-9 (15-17')	2210207-08	Solid	10/18/22 15:10	10/22/22 15:00	
BH-9 (17-17'6")	2210207-09	Solid	10/18/22 15:20	10/22/22 15:00	
BH-10 (0-5')	2210207-10	Solid	10/18/22 15:40	10/22/22 15:00	
BH-10 (5-10')	2210207-11	Solid	10/18/22 15:50	10/22/22 15:00	
BH-11 (0-5')	2210207-12	Solid	10/18/22 16:20	10/22/22 15:00	
BH-12 (0-5')	2210207-13	Solid	10/19/22 08:30	10/22/22 15:00	
BH-13 (0-5')	2210207-14	Solid	10/19/22 08:45	10/22/22 15:00	
BH-14 (0-2'6")	2210207-15	Solid	10/19/22 09:00	10/22/22 15:00	
BH-14 (16'8"-17')	2210207-16	Solid	10/19/22 09:10	10/22/22 15:00	
BH-15 (5-9'4")	2210207-17	Solid	10/19/22 09:30	10/22/22 15:00	
BH-16 (2'6"-4'6")	2210207-18	Solid	10/19/22 10:00	10/22/22 15:00	
BH-18 (0-1')	2210207-19	Solid	10/19/22 10:40	10/22/22 15:00	
BH-18 (13'6"-14'6")	2210207-20	Solid	10/19/22 10:50	10/22/22 15:00	
BH-19 (5-10')	2210207-21	Solid	10/19/22 10:55	10/22/22 15:00	
BH-19 (15-18')	2210207-22	Solid	10/19/22 11:00	10/22/22 15:00	
BH-20 (0-5')	2210207-23	Solid	10/19/22 11:33	10/22/22 15:00	
BH-20 (10-15')	2210207-24	Solid	10/19/22 11:35	10/22/22 15:00	
BH-22 (0-5')	2210207-25	Solid	10/19/22 12:30	10/22/22 15:00	
BH-24 (0-5')	2210207-26	Solid	10/19/22 13:10	10/22/22 15:00	
BH-24 (15-18')	2210207-27	Solid	10/19/22 13:20	10/22/22 15:00	
BH-25 (0-5')	2210207-28	Solid	10/19/22 13:30	10/22/22 15:00	

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: COGCC Table 915-1
Project Name / Number: MS Centralized Tank Battery
Project Manager: Kyle Siesser

Reported:
11/30/22 10:49

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
BH-26 (15-19')	2210207-29	Solid	10/19/22 14:00	10/22/22 15:00	
BH-27 (14-17'6")	2210207-30	Solid	10/19/22 14:30	10/22/22 15:00	
BH-29 (0-5')	2210207-31	Solid	10/19/22 15:15	10/22/22 15:00	
BH-29 (15-18')	2210207-32	Solid	10/19/22 15:25	10/22/22 15:00	
BH-30 (15-18')	2210207-33	Solid	10/19/22 15:40	10/22/22 15:00	
BH-31 (0-5')	2210207-34	Solid	10/19/22 16:00	10/22/22 15:00	
BH-31 (15-19')	2210207-35	Solid	10/19/22 16:10	10/22/22 15:00	
BH-32 (0-3')	2210207-36	Solid	10/20/22 08:35	10/22/22 15:00	
BH-33 (0-5')	2210207-37	Solid	10/20/22 09:05	10/22/22 15:00	
BH-33 (5-10')	2210207-38	Solid	10/20/22 09:15	10/22/22 15:00	
BH-34 (0-5')	2210207-39	Solid	10/20/22 09:40	10/22/22 15:00	
BH-34 (16'6"-18')	2210207-40	Solid	10/20/22 09:45	10/22/22 15:00	
BH-36 (0-5')	2210207-41	Solid	10/20/22 10:10	10/22/22 15:00	
BH-37 (5-10')	2210207-42	Solid	10/20/22 10:25	10/22/22 15:00	
BH-37 (20-22')	2210207-43	Solid	10/20/22 10:35	10/22/22 15:00	
BH-38 (0-5')	2210207-44	Solid	10/20/22 10:50	10/22/22 15:00	
BH-38 (20-22')	2210207-45	Solid	10/20/22 10:55	10/22/22 15:00	
BH-39 (1-5')	2210207-46	Solid	10/20/22 11:15	10/22/22 15:00	
BH-40 (19'6"-20')	2210207-47	Solid	10/20/22 11:35	10/22/22 15:00	
BH-42 (15-18')	2210207-48	Solid	10/20/22 13:00	10/22/22 15:00	
BH-43 (10-15')	2210207-49	Solid	10/20/22 13:15	10/22/22 15:00	
BH-44 (5-9'4")	2210207-50	Solid	10/20/22 13:40	10/22/22 15:00	
BH-44 (20-24')	2210207-51	Solid	10/20/22 13:45	10/22/22 15:00	
BH-45 (15-20')	2210207-52	Solid	10/20/22 14:05	10/22/22 15:00	
BH-46 (0-5')	2210207-53	Solid	10/20/22 14:30	10/22/22 15:00	
BH-47 (18-19')	2210207-54	Solid	10/20/22 15:00	10/22/22 15:00	
BH-47 (19'6"-20')	2210207-55	Solid	10/20/22 15:05	10/22/22 15:00	
BH-49 (0-5')	2210207-56	Solid	10/20/22 15:35	10/22/22 15:00	

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: MS Centralized Tank Battery	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	11/30/22 10:49

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
BH-49 (18'6"-19')	2210207-57	Solid	10/20/22 15:40	10/22/22 15:00	
BH-50 (15-19')	2210207-58	Solid	10/20/22 16:00	10/22/22 15:00	
BH-51 (5-10')	2210207-59	Solid	10/20/22 16:10	10/22/22 15:00	
BH-51 (15-16')	2210207-60	Solid	10/20/22 16:15	10/22/22 15:00	
BH-51 (16-19')	2210207-61	Solid	10/20/22 16:25	10/22/22 15:00	

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-2 (0-5')

2210207-01 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	10/24/22 21:29	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	10/24/22 21:29	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	10/24/22 21:29	8015B		MS
Surrogate: 1-Chlorooctane			90.1 %	45.3-161		10/24/22 21:29	8015B		MS
Surrogate: 1-Chlorooctadecane			99.6 %	46.3-178		10/24/22 21:29	8015B		MS

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Jeremy D Allen, Laboratory Director

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-3 (0-5')

2210207-02 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	10/25/22 02:18	8015B		MS
DRO >C10-C28*	84.6	10.0	4.26	mg/kg	1	10/25/22 02:18	8015B		MS
EXT DRO >C28-C36	39.0	10.0	4.26	mg/kg	1	10/25/22 02:18	8015B		MS
<i>Surrogate: 1-Chlorooctane</i>			105 %	45.3-161		10/25/22 02:18	8015B		MS
<i>Surrogate: 1-Chlorooctadecane</i>			116 %	46.3-178		10/25/22 02:18	8015B		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-4 (0-4')

2210207-03 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	10/24/22 21:53	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	10/24/22 21:53	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	10/24/22 21:53	8015B		MS
Surrogate: 1-Chlorooctane			102 %	45.3-161		10/24/22 21:53	8015B		MS
Surrogate: 1-Chlorooctadecane			109 %	46.3-178		10/24/22 21:53	8015B		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-5 (0-5')

2210207-04 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	10/25/22 02:39	8015B		MS
DRO >C10-C28*	112	10.0	4.26	mg/kg	1	10/25/22 02:39	8015B		MS
EXT DRO >C28-C36	79.6	10.0	4.26	mg/kg	1	10/25/22 02:39	8015B		MS
Surrogate: 1-Chlorooctane			107 %	45.3-161		10/25/22 02:39	8015B		MS
Surrogate: 1-Chlorooctadecane			121 %	46.3-178		10/25/22 02:39	8015B		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-6 (10-15')

2210207-05 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	10/24/22 22:15	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	10/24/22 22:15	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	10/24/22 22:15	8015B		MS
Surrogate: 1-Chlorooctane			103 %	45.3-161		10/24/22 22:15	8015B		MS
Surrogate: 1-Chlorooctadecane			113 %	46.3-178		10/24/22 22:15	8015B		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-8 (18'6"-19')

2210207-06 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	10/24/22 22:37	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	10/24/22 22:37	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	10/24/22 22:37	8015B		MS
Surrogate: 1-Chlorooctane			102 %	45.3-161		10/24/22 22:37	8015B		MS
Surrogate: 1-Chlorooctadecane			111 %	46.3-178		10/24/22 22:37	8015B		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-9 (1-5'6")

2210207-07 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

Hexavalent Chromium	0.304	0.250	0.128	mg/kg dry	25	11/02/22 12:17	3060A/3500-Cr B	M5	HTB
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Saturated Paste Extraction

Calcium	88.8	0.100	0.058	mg/L	1	11/11/22 14:09	EPA200.7		AES
Conductivity	600			umho/cm@25 C	1	11/08/22 09:15	ASA#9 10-3.3		AWG
Magnesium	14.5	0.100	0.065	mg/L	1	11/11/22 14:09	EPA200.7		AES
pH	7.06			pH Units	1	11/08/22 09:15	ASA#9 10-3.2		AWG
SAR	0.83			No Unit	1	11/11/22 14:09	Calculation		AES
Sodium	32.0	1.00	0.079	mg/L	1	11/11/22 14:09	EPA200.7		AES

Total Metals by ICP

Barium	115	5.00	1.10	mg/kg dry	100	11/04/22 14:51	6010B		AES
Cadmium	<5.00	5.00	2.54	mg/kg dry	100	11/04/22 14:51	6010B		AES
Chromium	12.9	5.00	1.58	mg/kg dry	100	11/04/22 14:51	6010B		AES
Copper	11.1	5.00	2.83	mg/kg dry	100	11/04/22 14:51	6010B		AES
Lead	<10.0	10.0	4.02	mg/kg dry	100	11/04/22 14:51	6010B		AES
Nickel	7.11	5.00	2.41	mg/kg dry	100	11/04/22 14:51	6010B		AES
Selenium	<20.0	20.0	5.39	mg/kg dry	100	11/04/22 14:51	6010B		AES
Silver	<1.00	1.00	0.518	mg/kg dry	100	11/04/22 14:51	6010B		AES
Zinc	38.8	10.0	2.18	mg/kg dry	100	11/04/22 14:51	6010B		AES

Total Metals by ICPMS

Arsenic	2.69	1.00	0.158	mg/kg dry	1000	11/07/22 11:39	6020A		AES
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Hot Water Extractable

Boron	<1.20	1.20	0.568	mg/L	4	11/08/22 16:07	EPA200.7		AES
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	393	10.0	6.25	mg/kg	1	10/25/22 03:02	8015B		MS
DRO >C10-C28*	1460	10.0	4.26	mg/kg	1	10/25/22 03:02	8015B		MS
EXT DRO >C28-C36	408	10.0	4.26	mg/kg	1	10/25/22 03:02	8015B		MS

Surrogate: 1-Chlorooctane 125 % 45.3-161 10/25/22 03:02 8015B MS

Surrogate: 1-Chlorooctadecane 131 % 46.3-178 10/25/22 03:02 8015B MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-9 (1-5'6")

2210207-07 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

VOLATILES BY GC/MS

Benzene*	<0.250	0.250	0.0885	mg/kg	500	11/01/22 15:26	8260B		MS
Toluene*	<0.250	0.250	0.0670	mg/kg	500	11/01/22 15:26	8260B		MS
Ethylbenzene*	<0.250	0.250	0.0405	mg/kg	500	11/01/22 15:26	8260B		MS
m+p - Xylene*	4.26	0.500	0.186	mg/kg	500	11/01/22 15:26	8260B		MS
o-Xylene*	0.451	0.250	0.0700	mg/kg	500	11/01/22 15:26	8260B		MS
Total Xylenes*	4.71	0.750	0.256	mg/kg	500	11/01/22 15:26	8260B		MS
1,3,5-Trimethylbenzene	16.2	0.250	0.0450	mg/kg	500	11/01/22 15:26	8260B		MS
1,2,4-Trimethylbenzene	8.48	0.250	0.0650	mg/kg	500	11/01/22 15:26	8260B		MS
Naphthalene*	4.29	0.250	0.0500	mg/kg	500	11/01/22 15:26	8260B		MS
Surrogate: Dibromofluoromethane			103 %	84.6-114		11/01/22 15:26	8260B		MS
Surrogate: Toluene-d8			95.8 %	90.4-109		11/01/22 15:26	8260B		MS
Surrogate: 4-Bromofluorobenzene			146 %	82.5-117		11/01/22 15:26	8260B		MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	1.01	0.400	0.153	mg/kg	400	11/02/22 11:49	8270C		MS
2-Methylnaphthalene*	4.32	0.400	0.226	mg/kg	400	11/02/22 11:49	8270C		MS
1-Methylnaphthalene	3.71	0.400	0.161	mg/kg	400	11/02/22 11:49	8270C		MS
Acenaphthene*	<0.235	0.400	0.235	mg/kg	400	11/02/22 11:49	8270C		MS
Fluorene*	0.835	0.400	0.142	mg/kg	400	11/02/22 11:49	8270C		MS
Anthracene*	<0.172	0.400	0.172	mg/kg	400	11/02/22 11:49	8270C		MS
Fluoranthene*	<0.185	0.400	0.185	mg/kg	400	11/02/22 11:49	8270C		MS
Pyrene*	0.371	0.400	0.132	mg/kg	400	11/02/22 11:49	8270C	J	MS
Benzo[a]anthracene*	0.545	0.400	0.230	mg/kg	400	11/02/22 11:49	8270C		MS
Chrysene	<0.172	0.400	0.172	mg/kg	400	11/02/22 11:49	8270C		MS
Benzo[b]fluoranthene*	<0.192	0.400	0.192	mg/kg	400	11/02/22 11:49	8270C		MS
Benzo[k]fluoranthene*	<0.157	0.400	0.157	mg/kg	400	11/02/22 11:49	8270C		MS
Benzo[a]pyrene*	<0.182	0.400	0.182	mg/kg	400	11/02/22 11:49	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.168	0.400	0.168	mg/kg	400	11/02/22 11:49	8270C		MS
Dibenz[a,h]anthracene*	<0.186	0.400	0.186	mg/kg	400	11/02/22 11:49	8270C		MS
Surrogate: Nitrobenzene-d5			44.8 %	39.6-121		11/02/22 11:49	8270C		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-9 (1-5'6")

2210207-07 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Polynuclear Aromatic Compounds by GC/MS

Surrogate: 2-Fluorobiphenyl	55.2 %	39.8-134				11/02/22 11:49	8270C		MS
Surrogate: Terphenyl-d14	70.7 %	33.3-136				11/02/22 11:49	8270C		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-9 (15-17')

2210207-08 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	10/24/22 22:58	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	10/24/22 22:58	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	10/24/22 22:58	8015B		MS
Surrogate: 1-Chlorooctane			98.3 %	45.3-161		10/24/22 22:58	8015B		MS
Surrogate: 1-Chlorooctadecane			107 %	46.3-178		10/24/22 22:58	8015B		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-9 (17-17'6")

2210207-09 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	10/24/22 23:20	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	10/24/22 23:20	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	10/24/22 23:20	8015B		MS
Surrogate: 1-Chlorooctane			98.7 %	45.3-161		10/24/22 23:20	8015B		MS
Surrogate: 1-Chlorooctadecane			107 %	46.3-178		10/24/22 23:20	8015B		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-10 (0-5')

2210207-10 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	10/25/22 03:25	8015B		MS
DRO >C10-C28*	142	10.0	4.26	mg/kg	1	10/25/22 03:25	8015B		MS
EXT DRO >C28-C36	50.4	10.0	4.26	mg/kg	1	10/25/22 03:25	8015B		MS
Surrogate: 1-Chlorooctane			94.5 %	45.3-161		10/25/22 03:25	8015B		MS
Surrogate: 1-Chlorooctadecane			113 %	46.3-178		10/25/22 03:25	8015B		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-10 (5-10')

2210207-11 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	10/24/22 23:44	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	10/24/22 23:44	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	10/24/22 23:44	8015B		MS
Surrogate: 1-Chlorooctane			90.9 %	45.3-161		10/24/22 23:44	8015B		MS
Surrogate: 1-Chlorooctadecane			96.2 %	46.3-178		10/24/22 23:44	8015B		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-11 (0-5')

2210207-12 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	10/25/22 00:06	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	10/25/22 00:06	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	10/25/22 00:06	8015B		MS
Surrogate: 1-Chlorooctane			90.7 %	45.3-161		10/25/22 00:06	8015B		MS
Surrogate: 1-Chlorooctadecane			96.5 %	46.3-178		10/25/22 00:06	8015B		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-12 (0-5')

2210207-13 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	10/25/22 00:28	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	10/25/22 00:28	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	10/25/22 00:28	8015B		MS
Surrogate: 1-Chlorooctane			82.2 %	45.3-161		10/25/22 00:28	8015B		MS
Surrogate: 1-Chlorooctadecane			87.5 %	46.3-178		10/25/22 00:28	8015B		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-13 (0-5')

2210207-14 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	10/25/22 00:50	8015B		MS
DRO >C10-C28*	95.4	10.0	4.26	mg/kg	1	10/25/22 00:50	8015B		MS
EXT DRO >C28-C36	19.5	10.0	4.26	mg/kg	1	10/25/22 00:50	8015B		MS
<i>Surrogate: 1-Chlorooctane</i>			90.9 %	45.3-161		10/25/22 00:50	8015B		MS
<i>Surrogate: 1-Chlorooctadecane</i>			98.5 %	46.3-178		10/25/22 00:50	8015B		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-14 (0-2'6")

2210207-15 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

Hexavalent Chromium	0.574	0.250	0.128	mg/kg dry	25	11/02/22 12:17	3060A/3500-Cr B		HTB
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Saturated Paste Extraction

Calcium	18.8	0.500	0.289	mg/L	5	11/23/22 13:34	EPA200.7		AES
Conductivity	822			umho/cm@25 C	1	11/21/22 12:00	ASA#9 10-3.3		AWG
Magnesium	4.06	0.500	0.327	mg/L	5	11/23/22 13:34	EPA200.7		AES
pH	8.10			pH Units	1	11/21/22 12:00	ASA#9 10-3.2		AWG
SAR	9.22			No Unit	1	11/23/22 13:33	Calculation		AES
Sodium	169	5.00	0.396	mg/L	5	11/23/22 13:33	EPA200.7		AES

Total Metals by ICP

Barium	121	5.00	1.10	mg/kg dry	100	11/04/22 15:02	6010B		AES
Cadmium	<5.00	5.00	2.54	mg/kg dry	100	11/04/22 15:02	6010B		AES
Chromium	12.0	5.00	1.58	mg/kg dry	100	11/04/22 15:02	6010B		AES
Copper	19.1	5.00	2.83	mg/kg dry	100	11/04/22 15:02	6010B		AES
Lead	<10.0	10.0	4.02	mg/kg dry	100	11/04/22 15:02	6010B		AES
Nickel	6.76	5.00	2.41	mg/kg dry	100	11/04/22 15:02	6010B		AES
Selenium	<20.0	20.0	5.39	mg/kg dry	100	11/04/22 15:02	6010B		AES
Silver	<1.00	1.00	0.518	mg/kg dry	100	11/04/22 15:02	6010B		AES
Zinc	70.4	10.0	2.18	mg/kg dry	100	11/04/22 15:02	6010B		AES

Total Metals by ICPMS

Arsenic	2.72	1.00	0.158	mg/kg dry	1000	11/07/22 11:44	6020A		AES
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Hot Water Extractable

Boron	<1.20	1.20	0.568	mg/L	4	11/08/22 16:09	EPA200.7		AES
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	10/25/22 03:47	8015B		MS
DRO >C10-C28*	980	10.0	4.26	mg/kg	1	10/25/22 03:47	8015B		MS
EXT DRO >C28-C36	852	10.0	4.26	mg/kg	1	10/25/22 03:47	8015B		MS

Surrogate: 1-Chlorooctane 88.8 % 45.3-161 10/25/22 03:47 8015B MS

Surrogate: 1-Chlorooctadecane 112 % 46.3-178 10/25/22 03:47 8015B MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-14 (0-2'6")

2210207-15 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

VOLATILES BY GC/MS

Benzene*	<0.0250	0.0250	0.00885	mg/kg	50	11/01/22 15:04	8260B		MS
Toluene*	<0.0250	0.0250	0.00670	mg/kg	50	11/01/22 15:04	8260B		MS
Ethylbenzene*	<0.0250	0.0250	0.00405	mg/kg	50	11/01/22 15:04	8260B		MS
m+p - Xylene*	<0.0500	0.0500	0.0186	mg/kg	50	11/01/22 15:04	8260B		MS
o-Xylene*	<0.0250	0.0250	0.00700	mg/kg	50	11/01/22 15:04	8260B		MS
Total Xylenes*	<0.0750	0.0750	0.0256	mg/kg	50	11/01/22 15:04	8260B		MS
1,3,5-Trimethylbenzene	<0.0250	0.0250	0.00450	mg/kg	50	11/01/22 15:04	8260B		MS
1,2,4-Trimethylbenzene	<0.0250	0.0250	0.00650	mg/kg	50	11/01/22 15:04	8260B		MS
Naphthalene*	<0.0250	0.0250	0.00500	mg/kg	50	11/01/22 15:04	8260B		MS
Surrogate: Dibromofluoromethane			98.5 %	84.6-114		11/01/22 15:04	8260B		MS
Surrogate: Toluene-d8			94.3 %	90.4-109		11/01/22 15:04	8260B		MS
Surrogate: 4-Bromofluorobenzene			102 %	82.5-117		11/01/22 15:04	8260B		MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.153	0.400	0.153	mg/kg	400	11/02/22 12:20	8270C		MS
2-Methylnaphthalene*	<0.226	0.400	0.226	mg/kg	400	11/02/22 12:20	8270C		MS
1-Methylnaphthalene	<0.161	0.400	0.161	mg/kg	400	11/02/22 12:20	8270C		MS
Acenaphthene*	<0.235	0.400	0.235	mg/kg	400	11/02/22 12:20	8270C		MS
Fluorene*	<0.142	0.400	0.142	mg/kg	400	11/02/22 12:20	8270C		MS
Anthracene*	<0.172	0.400	0.172	mg/kg	400	11/02/22 12:20	8270C		MS
Fluoranthene*	<0.185	0.400	0.185	mg/kg	400	11/02/22 12:20	8270C		MS
Pyrene*	<0.132	0.400	0.132	mg/kg	400	11/02/22 12:20	8270C		MS
Benzo[a]anthracene*	<0.230	0.400	0.230	mg/kg	400	11/02/22 12:20	8270C		MS
Chrysene	<0.172	0.400	0.172	mg/kg	400	11/02/22 12:20	8270C		MS
Benzo[b]fluoranthene*	<0.192	0.400	0.192	mg/kg	400	11/02/22 12:20	8270C		MS
Benzo[k]fluoranthene*	<0.157	0.400	0.157	mg/kg	400	11/02/22 12:20	8270C		MS
Benzo[a]pyrene*	<0.182	0.400	0.182	mg/kg	400	11/02/22 12:20	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.168	0.400	0.168	mg/kg	400	11/02/22 12:20	8270C		MS
Dibenz[a,h]anthracene*	<0.186	0.400	0.186	mg/kg	400	11/02/22 12:20	8270C		MS
Surrogate: Nitrobenzene-d5			14.8 %	39.6-121		11/02/22 12:20	8270C	S-06	MS

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: MS Centralized Tank Battery	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	11/30/22 10:49

BH-14 (0-2'6")

2210207-15 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Polynuclear Aromatic Compounds by GC/MS

Surrogate: 2-Fluorobiphenyl	21.8 %	39.8-134				11/02/22 12:20	8270C	S-06	MS
Surrogate: Terphenyl-d14	25.1 %	33.3-136				11/02/22 12:20	8270C	S-06	MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-14 (16'8"-17')

2210207-16 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	10/25/22 01:13	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	10/25/22 01:13	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	10/25/22 01:13	8015B		MS
Surrogate: 1-Chlorooctane			84.8 %	45.3-161		10/25/22 01:13	8015B		MS
Surrogate: 1-Chlorooctadecane			89.8 %	46.3-178		10/25/22 01:13	8015B		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-15 (5-9'4")

2210207-17 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	208	10.0	6.25	mg/kg	1	10/25/22 04:08	8015B		MS
DRO >C10-C28*	2610	10.0	4.26	mg/kg	1	10/25/22 04:08	8015B		MS
EXT DRO >C28-C36	684	10.0	4.26	mg/kg	1	10/25/22 04:08	8015B		MS
Surrogate: 1-Chlorooctane			131 %	45.3-161		10/25/22 04:08	8015B		MS
Surrogate: 1-Chlorooctadecane			155 %	46.3-178		10/25/22 04:08	8015B		MS

VOLATILES BY GC/MS

Benzene*	0.344	0.250	0.0885	mg/kg	500	11/01/22 15:48	8260B		MS
Toluene*	0.817	0.250	0.0670	mg/kg	500	11/01/22 15:48	8260B		MS
Ethylbenzene*	1.65	0.250	0.0405	mg/kg	500	11/01/22 15:48	8260B		MS
m+p - Xylene*	1.48	0.500	0.186	mg/kg	500	11/01/22 15:48	8260B		MS
o-Xylene*	0.342	0.250	0.0700	mg/kg	500	11/01/22 15:48	8260B		MS
Total Xylenes*	1.83	0.750	0.256	mg/kg	500	11/01/22 15:48	8260B		MS
1,3,5-Trimethylbenzene	9.04	0.250	0.0450	mg/kg	500	11/01/22 15:48	8260B		MS
1,2,4-Trimethylbenzene	<0.250	0.250	0.0650	mg/kg	500	11/01/22 15:48	8260B		MS
Naphthalene*	10.3	0.250	0.0500	mg/kg	500	11/01/22 15:48	8260B		MS
Surrogate: Dibromofluoromethane			100 %	84.6-114		11/01/22 15:48	8260B		MS
Surrogate: Toluene-d8			94.5 %	90.4-109		11/01/22 15:48	8260B		MS
Surrogate: 4-Bromofluorobenzene			147 %	82.5-117		11/01/22 15:48	8260B		MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	1.31	0.400	0.153	mg/kg	400	11/03/22 14:48	8270C		MS
2-Methylnaphthalene*	7.58	0.400	0.226	mg/kg	400	11/03/22 14:48	8270C		MS
1-Methylnaphthalene	1.48	0.400	0.161	mg/kg	400	11/03/22 14:48	8270C		MS
Acenaphthene*	<0.235	0.400	0.235	mg/kg	400	11/03/22 14:48	8270C		MS
Fluorene*	1.89	0.400	0.142	mg/kg	400	11/03/22 14:48	8270C		MS
Anthracene*	<0.172	0.400	0.172	mg/kg	400	11/03/22 14:48	8270C		MS
Fluoranthene*	<0.185	0.400	0.185	mg/kg	400	11/03/22 14:48	8270C		MS
Pyrene*	0.685	0.400	0.132	mg/kg	400	11/03/22 14:48	8270C		MS
Benzo[a]anthracene*	<0.230	0.400	0.230	mg/kg	400	11/03/22 14:48	8270C		MS

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: MS Centralized Tank Battery	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	11/30/22 10:49

BH-15 (5-9'4")

2210207-17 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Polynuclear Aromatic Compounds by GC/MS

Chrysene	1.06	0.400	0.172	mg/kg	400	11/03/22 14:48	8270C		MS
Benzo[b]flouranthene*	0.212	0.400	0.192	mg/kg	400	11/03/22 14:48	8270C	J	MS
Benzo[k]flouranthene*	<0.157	0.400	0.157	mg/kg	400	11/03/22 14:48	8270C		MS
Benzo[a]pyrene*	<0.182	0.400	0.182	mg/kg	400	11/03/22 14:48	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.168	0.400	0.168	mg/kg	400	11/03/22 14:48	8270C		MS
Dibenz[a,h]anthracene*	<0.186	0.400	0.186	mg/kg	400	11/03/22 14:48	8270C		MS
<i>Surrogate: Nitrobenzene-d5</i>			46.9 %	39.6-121		11/03/22 14:48	8270C		MS
<i>Surrogate: 2-Fluorobiphenyl</i>			65.4 %	39.8-134		11/03/22 14:48	8270C		MS
<i>Surrogate: Terphenyl-dl4</i>			76.6 %	33.3-136		11/03/22 14:48	8270C		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-16 (2'6"-4'6")

2210207-18 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

Hexavalent Chromium	<0.250	0.250	0.128	mg/kg dry	25	11/02/22 12:17	3060A/3500-Cr B		HTB
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Saturated Paste Extraction

Calcium	44.0	0.100	0.058	mg/L	1	11/11/22 14:12	EPA200.7		AES
Conductivity	522			umho/cm@25 C	1	11/08/22 09:15	ASA#9 10-3.3		AWG
Magnesium	11.4	0.100	0.065	mg/L	1	11/11/22 14:12	EPA200.7		AES
pH	7.35			pH Units	1	11/08/22 09:15	ASA#9 10-3.2		AWG
SAR	1.87			No Unit	1	11/11/22 14:12	Calculation		AES
Sodium	53.9	1.00	0.079	mg/L	1	11/11/22 14:12	EPA200.7		AES

Total Metals by ICP

Barium	180	5.00	1.10	mg/kg dry	100	11/04/22 15:07	6010B		AES
Cadmium	<5.00	5.00	2.54	mg/kg dry	100	11/04/22 15:07	6010B		AES
Chromium	15.0	5.00	1.58	mg/kg dry	100	11/04/22 15:07	6010B		AES
Copper	12.0	5.00	2.83	mg/kg dry	100	11/04/22 15:07	6010B		AES
Lead	<10.0	10.0	4.02	mg/kg dry	100	11/04/22 15:07	6010B		AES
Nickel	7.79	5.00	2.41	mg/kg dry	100	11/04/22 15:07	6010B		AES
Selenium	<20.0	20.0	5.39	mg/kg dry	100	11/04/22 15:06	6010B		AES
Silver	<1.00	1.00	0.518	mg/kg dry	100	11/04/22 15:06	6010B		AES
Zinc	37.8	10.0	2.18	mg/kg dry	100	11/04/22 15:07	6010B		AES

Total Metals by ICPMS

Arsenic	2.89	1.00	0.158	mg/kg dry	1000	11/07/22 11:46	6020A		AES
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Hot Water Extractable

Boron	<1.20	1.20	0.568	mg/L	4	11/08/22 16:12	EPA200.7		AES
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

S-04

GRO C6-C10*	596	10.0	6.25	mg/kg	1	10/25/22 04:30	8015B		MS
DRO >C10-C28*	5170	10.0	4.26	mg/kg	1	10/25/22 04:30	8015B		MS
EXT DRO >C28-C36	1350	10.0	4.26	mg/kg	1	10/25/22 04:30	8015B		MS

Surrogate: 1-Chlorooctane 255 % 45.3-161 10/25/22 04:30 8015B MS

Surrogate: 1-Chlorooctadecane 507 % 46.3-178 10/25/22 04:30 8015B MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-16 (2'6"-4'6")

2210207-18 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

VOLATILES BY GC/MS

Benzene*	<0.250	0.250	0.0885	mg/kg	500	11/01/22 00:19	8260B		MS
Toluene*	<0.250	0.250	0.0670	mg/kg	500	11/01/22 00:19	8260B		MS
Ethylbenzene*	<0.250	0.250	0.0405	mg/kg	500	11/01/22 00:19	8260B		MS
m+p - Xylene*	1.19	0.500	0.186	mg/kg	500	11/01/22 00:19	8260B		MS
o-Xylene*	0.995	0.250	0.0700	mg/kg	500	11/01/22 00:19	8260B		MS
Total Xylenes*	2.19	0.750	0.256	mg/kg	500	11/01/22 00:19	8260B		MS
1,3,5-Trimethylbenzene	3.74	0.250	0.0450	mg/kg	500	11/01/22 00:19	8260B		MS
1,2,4-Trimethylbenzene	4.25	0.250	0.0650	mg/kg	500	11/01/22 00:19	8260B		MS
Naphthalene*	4.54	0.250	0.0500	mg/kg	500	11/01/22 00:19	8260B		MS

Surrogate: Dibromofluoromethane			102 %	84.6-114		11/01/22 00:19	8260B		MS
Surrogate: Toluene-d8			95.9 %	90.4-109		11/01/22 00:19	8260B		MS
Surrogate: 4-Bromofluorobenzene			131 %	82.5-117		11/01/22 00:19	8260B	S-04	MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	0.807	0.400	0.153	mg/kg	400	11/03/22 15:19	8270C		MS
2-Methylnaphthalene*	3.18	0.400	0.226	mg/kg	400	11/03/22 15:19	8270C		MS
1-Methylnaphthalene	4.51	0.400	0.161	mg/kg	400	11/03/22 15:19	8270C		MS
Acenaphthene*	<0.235	0.400	0.235	mg/kg	400	11/03/22 15:19	8270C		MS
Fluorene*	1.38	0.400	0.142	mg/kg	400	11/03/22 15:19	8270C		MS
Anthracene*	<0.172	0.400	0.172	mg/kg	400	11/03/22 15:19	8270C		MS
Fluoranthene*	<0.185	0.400	0.185	mg/kg	400	11/03/22 15:19	8270C		MS
Pyrene*	0.624	0.400	0.132	mg/kg	400	11/03/22 15:19	8270C		MS
Benzo[a]anthracene*	<0.230	0.400	0.230	mg/kg	400	11/03/22 15:19	8270C		MS
Chrysene	0.893	0.400	0.172	mg/kg	400	11/03/22 15:19	8270C		MS
Benzo[b]fluoranthene*	0.193	0.400	0.192	mg/kg	400	11/03/22 15:19	8270C	J	MS
Benzo[k]fluoranthene*	<0.157	0.400	0.157	mg/kg	400	11/03/22 15:19	8270C		MS
Benzo[a]pyrene*	<0.182	0.400	0.182	mg/kg	400	11/03/22 15:19	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.168	0.400	0.168	mg/kg	400	11/03/22 15:19	8270C		MS
Dibenz[a,h]anthracene*	<0.186	0.400	0.186	mg/kg	400	11/03/22 15:19	8270C		MS

Surrogate: Nitrobenzene-d5			47.0 %	39.6-121		11/03/22 15:19	8270C		MS
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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-16 (2'6"-4'6")

2210207-18 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Polynuclear Aromatic Compounds by GC/MS

Surrogate: 2-Fluorobiphenyl	63.0 %	39.8-134				11/03/22 15:19	8270C		MS
Surrogate: Terphenyl-d14	60.7 %	33.3-136				11/03/22 15:19	8270C		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-18 (0-1')

2210207-19 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	10/25/22 01:35	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	10/25/22 01:35	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	10/25/22 01:35	8015B		MS
Surrogate: 1-Chlorooctane			91.2 %	45.3-161		10/25/22 01:35	8015B		MS
Surrogate: 1-Chlorooctadecane			98.7 %	46.3-178		10/25/22 01:35	8015B		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-18 (13'6"-14'6")

2210207-20 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	10/25/22 01:56	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	10/25/22 01:56	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	10/25/22 01:56	8015B		MS
Surrogate: 1-Chlorooctane			88.4 %	45.3-161		10/25/22 01:56	8015B		MS
Surrogate: 1-Chlorooctadecane			96.4 %	46.3-178		10/25/22 01:56	8015B		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-19 (5-10')

2210207-21 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

S-06

GRO C6-C10*	1330	50.0	31.2	mg/kg	5	10/25/22 01:56	8015B		MS
DRO >C10-C28*	4890	50.0	21.3	mg/kg	5	10/25/22 01:56	8015B		MS
EXT DRO >C28-C36	994	50.0	21.3	mg/kg	5	10/25/22 01:56	8015B		MS
Surrogate: 1-Chlorooctane			241 %	45.3-161		10/25/22 01:56	8015B		MS
Surrogate: 1-Chlorooctadecane			241 %	46.3-178		10/25/22 01:56	8015B		MS

VOLATILES BY GC/MS

Benzene*	<0.250	0.250	0.0885	mg/kg	500	11/01/22 07:51	8260B		MS
Toluene*	<0.250	0.250	0.0670	mg/kg	500	11/01/22 07:51	8260B		MS
Ethylbenzene*	3.71	0.250	0.0405	mg/kg	500	11/01/22 07:51	8260B		MS
m+p - Xylene*	1.98	0.500	0.186	mg/kg	500	11/01/22 07:51	8260B		MS
o-Xylene*	<0.250	0.250	0.0700	mg/kg	500	11/01/22 07:51	8260B		MS
Total Xylenes*	2.11	0.750	0.256	mg/kg	500	11/01/22 07:51	8260B		MS
1,3,5-Trimethylbenzene	6.25	0.250	0.0450	mg/kg	500	11/01/22 07:51	8260B		MS
1,2,4-Trimethylbenzene	2.15	0.250	0.0650	mg/kg	500	11/01/22 07:51	8260B		MS
Naphthalene*	7.16	0.250	0.0500	mg/kg	500	11/01/22 07:51	8260B		MS
Surrogate: Dibromofluoromethane			93.8 %	84.6-114		11/01/22 07:51	8260B		MS
Surrogate: Toluene-d8			96.3 %	90.4-109		11/01/22 07:51	8260B		MS
Surrogate: 4-Bromofluorobenzene			126 %	82.5-117		11/01/22 07:51	8260B	S-04	MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	2.62	0.400	0.153	mg/kg	400	11/03/22 15:49	8270C		MS
2-Methylnaphthalene*	16.8	0.400	0.226	mg/kg	400	11/03/22 15:49	8270C		MS
1-Methylnaphthalene	7.67	0.400	0.161	mg/kg	400	11/03/22 15:49	8270C		MS
Acenaphthene*	<0.235	0.400	0.235	mg/kg	400	11/03/22 15:49	8270C		MS
Fluorene*	2.77	0.400	0.142	mg/kg	400	11/03/22 15:49	8270C		MS
Anthracene*	<0.172	0.400	0.172	mg/kg	400	11/03/22 15:49	8270C		MS
Fluoranthene*	<0.185	0.400	0.185	mg/kg	400	11/03/22 15:49	8270C		MS
Pyrene*	0.873	0.400	0.132	mg/kg	400	11/03/22 15:49	8270C		MS
Benzo[a]anthracene*	<0.230	0.400	0.230	mg/kg	400	11/03/22 15:49	8270C		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-19 (5-10')

2210207-21 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Polynuclear Aromatic Compounds by GC/MS

Chrysene	1.24	0.400	0.172	mg/kg	400	11/03/22 15:49	8270C		MS
Benzo[b]flouranthene*	0.229	0.400	0.192	mg/kg	400	11/03/22 15:49	8270C	J	MS
Benzo[k]flouranthene*	<0.157	0.400	0.157	mg/kg	400	11/03/22 15:49	8270C		MS
Benzo[a]pyrene*	<0.182	0.400	0.182	mg/kg	400	11/03/22 15:49	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.168	0.400	0.168	mg/kg	400	11/03/22 15:49	8270C		MS
Dibenz[a,h]anthracene*	<0.186	0.400	0.186	mg/kg	400	11/03/22 15:49	8270C		MS
<i>Surrogate: Nitrobenzene-d5</i>			53.5 %	39.6-121		11/03/22 15:49	8270C		MS
<i>Surrogate: 2-Fluorobiphenyl</i>			67.1 %	39.8-134		11/03/22 15:49	8270C		MS
<i>Surrogate: Terphenyl-dl4</i>			61.6 %	33.3-136		11/03/22 15:49	8270C		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-19 (15-18')

2210207-22 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	488	50.0	31.2	mg/kg	5	10/25/22 02:18	8015B		MS
DRO >C10-C28*	2170	50.0	21.3	mg/kg	5	10/25/22 02:18	8015B		MS
EXT DRO >C28-C36	496	50.0	21.3	mg/kg	5	10/25/22 02:18	8015B		MS
Surrogate: 1-Chlorooctane			146 %	45.3-161		10/25/22 02:18	8015B		MS
Surrogate: 1-Chlorooctadecane			166 %	46.3-178		10/25/22 02:18	8015B		MS

VOLATILES BY GC/MS

Benzene*	<0.250	0.250	0.0885	mg/kg	500	11/01/22 09:50	8260B		MS
Toluene*	<0.250	0.250	0.0670	mg/kg	500	11/01/22 09:50	8260B		MS
Ethylbenzene*	3.25	0.250	0.0405	mg/kg	500	11/01/22 09:50	8260B		MS
m+p - Xylene*	0.771	0.500	0.186	mg/kg	500	11/01/22 09:50	8260B		MS
o-Xylene*	<0.250	0.250	0.0700	mg/kg	500	11/01/22 09:50	8260B		MS
Total Xylenes*	0.870	0.750	0.256	mg/kg	500	11/01/22 09:50	8260B		MS
1,3,5-Trimethylbenzene	4.82	0.250	0.0450	mg/kg	500	11/01/22 09:50	8260B		MS
1,2,4-Trimethylbenzene	2.51	0.250	0.0650	mg/kg	500	11/01/22 09:50	8260B		MS
Naphthalene*	5.81	0.250	0.0500	mg/kg	500	11/01/22 09:50	8260B		MS
Surrogate: Dibromofluoromethane			100 %	84.6-114		11/01/22 09:50	8260B		MS
Surrogate: Toluene-d8			95.4 %	90.4-109		11/01/22 09:50	8260B		MS
Surrogate: 4-Bromofluorobenzene			118 %	82.5-117		11/01/22 09:50	8260B	S-04	MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	0.938	0.400	0.153	mg/kg	400	11/03/22 16:20	8270C		MS
2-Methylnaphthalene*	8.02	0.400	0.226	mg/kg	400	11/03/22 16:20	8270C		MS
1-Methylnaphthalene	4.55	0.400	0.161	mg/kg	400	11/03/22 16:20	8270C		MS
Acenaphthene*	<0.235	0.400	0.235	mg/kg	400	11/03/22 16:20	8270C		MS
Fluorene*	1.50	0.400	0.142	mg/kg	400	11/03/22 16:20	8270C		MS
Anthracene*	<0.172	0.400	0.172	mg/kg	400	11/03/22 16:20	8270C		MS
Fluoranthene*	<0.185	0.400	0.185	mg/kg	400	11/03/22 16:20	8270C		MS
Pyrene*	0.492	0.400	0.132	mg/kg	400	11/03/22 16:20	8270C		MS
Benzo[a]anthracene*	<0.230	0.400	0.230	mg/kg	400	11/03/22 16:20	8270C		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-19 (15-18')

2210207-22 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Polynuclear Aromatic Compounds by GC/MS

Chrysene	0.716	0.400	0.172	mg/kg	400	11/03/22 16:20	8270C		MS
Benzo[b]flouranthene*	<0.192	0.400	0.192	mg/kg	400	11/03/22 16:20	8270C		MS
Benzo[k]flouranthene*	<0.157	0.400	0.157	mg/kg	400	11/03/22 16:20	8270C		MS
Benzo[a]pyrene*	<0.182	0.400	0.182	mg/kg	400	11/03/22 16:20	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.168	0.400	0.168	mg/kg	400	11/03/22 16:20	8270C		MS
Dibenz[a,h]anthracene*	<0.186	0.400	0.186	mg/kg	400	11/03/22 16:20	8270C		MS
<i>Surrogate: Nitrobenzene-d5</i>			42.4 %	39.6-121		11/03/22 16:20	8270C		MS
<i>Surrogate: 2-Fluorobiphenyl</i>			62.1 %	39.8-134		11/03/22 16:20	8270C		MS
<i>Surrogate: Terphenyl-dl4</i>			62.3 %	33.3-136		11/03/22 16:20	8270C		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-20 (0-5')

2210207-23 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

Hexavalent Chromium	0.364	0.250	0.128	mg/kg dry	25	11/02/22 12:17	3060A/3500-Cr B		HTB
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Saturated Paste Extraction

Calcium	67.3	0.100	0.058	mg/L	1	11/11/22 14:14	EPA200.7		AES
Conductivity	496			umho/cm@25 C	1	11/08/22 09:15	ASA#9 10-3.3		AWG
Magnesium	6.15	0.100	0.065	mg/L	1	11/11/22 14:14	EPA200.7		AES
pH	7.27			pH Units	1	11/08/22 09:15	ASA#9 10-3.2		AWG
SAR	0.80			No Unit	1	11/11/22 14:14	Calculation		AES
Sodium	25.7	1.00	0.079	mg/L	1	11/11/22 14:14	EPA200.7		AES

Total Metals by ICP

Barium	120	5.00	1.10	mg/kg dry	100	11/04/22 15:16	6010B		AES
Cadmium	<5.00	5.00	2.54	mg/kg dry	100	11/04/22 15:16	6010B		AES
Chromium	14.1	5.00	1.58	mg/kg dry	100	11/04/22 15:16	6010B		AES
Copper	21.3	5.00	2.83	mg/kg dry	100	11/04/22 15:16	6010B		AES
Lead	13.2	10.0	4.02	mg/kg dry	100	11/04/22 15:16	6010B		AES
Nickel	7.78	5.00	2.41	mg/kg dry	100	11/04/22 15:16	6010B		AES
Selenium	<20.0	20.0	5.39	mg/kg dry	100	11/04/22 15:16	6010B		AES
Silver	<1.00	1.00	0.518	mg/kg dry	100	11/04/22 15:16	6010B		AES
Zinc	65.4	10.0	2.18	mg/kg dry	100	11/04/22 15:16	6010B		AES

Total Metals by ICPMS

Arsenic	2.56	1.00	0.158	mg/kg dry	1000	11/07/22 11:47	6020A		AES
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Hot Water Extractable

Boron	<1.20	1.20	0.568	mg/L	4	11/08/22 16:14	EPA200.7		AES
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	10/24/22 21:20	8015B		MS
DRO >C10-C28*	254	10.0	4.26	mg/kg	1	10/24/22 21:20	8015B		MS
EXT DRO >C28-C36	269	10.0	4.26	mg/kg	1	10/24/22 21:20	8015B		MS

Surrogate: 1-Chlorooctane			101 %	45.3-161		10/24/22 21:20	8015B		MS
Surrogate: 1-Chlorooctadecane			149 %	46.3-178		10/24/22 21:20	8015B		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-20 (0-5')

2210207-23 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

VOLATILES BY GC/MS

Benzene*	<0.0250	0.0250	0.00885	mg/kg	50	11/01/22 10:12	8260B		MS
Toluene*	<0.0250	0.0250	0.00670	mg/kg	50	11/01/22 10:12	8260B		MS
Ethylbenzene*	<0.0250	0.0250	0.00405	mg/kg	50	11/01/22 10:12	8260B		MS
m+p - Xylene*	<0.0500	0.0500	0.0186	mg/kg	50	11/01/22 10:12	8260B		MS
o-Xylene*	<0.0250	0.0250	0.00700	mg/kg	50	11/01/22 10:12	8260B		MS
Total Xylenes*	<0.0750	0.0750	0.0256	mg/kg	50	11/01/22 10:12	8260B		MS
1,3,5-Trimethylbenzene	<0.0250	0.0250	0.00450	mg/kg	50	11/01/22 10:12	8260B		MS
1,2,4-Trimethylbenzene	<0.0250	0.0250	0.00650	mg/kg	50	11/01/22 10:12	8260B		MS
Naphthalene*	<0.0250	0.0250	0.00500	mg/kg	50	11/01/22 10:12	8260B		MS
Surrogate: Dibromofluoromethane			99.1 %	84.6-114		11/01/22 10:12	8260B		MS
Surrogate: Toluene-d8			92.3 %	90.4-109		11/01/22 10:12	8260B		MS
Surrogate: 4-Bromofluorobenzene			102 %	82.5-117		11/01/22 10:12	8260B		MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.153	0.400	0.153	mg/kg	400	11/02/22 14:54	8270C		MS
2-Methylnaphthalene*	<0.226	0.400	0.226	mg/kg	400	11/02/22 14:54	8270C		MS
1-Methylnaphthalene	<0.161	0.400	0.161	mg/kg	400	11/02/22 14:54	8270C		MS
Acenaphthene*	<0.235	0.400	0.235	mg/kg	400	11/02/22 14:54	8270C		MS
Fluorene*	<0.142	0.400	0.142	mg/kg	400	11/02/22 14:54	8270C		MS
Anthracene*	<0.172	0.400	0.172	mg/kg	400	11/02/22 14:54	8270C		MS
Fluoranthene*	<0.185	0.400	0.185	mg/kg	400	11/02/22 14:54	8270C		MS
Pyrene*	<0.132	0.400	0.132	mg/kg	400	11/02/22 14:54	8270C		MS
Benzo[a]anthracene*	<0.230	0.400	0.230	mg/kg	400	11/02/22 14:54	8270C		MS
Chrysene	<0.172	0.400	0.172	mg/kg	400	11/02/22 14:54	8270C		MS
Benzo[b]fluoranthene*	<0.192	0.400	0.192	mg/kg	400	11/02/22 14:54	8270C		MS
Benzo[k]fluoranthene*	<0.157	0.400	0.157	mg/kg	400	11/02/22 14:54	8270C		MS
Benzo[a]pyrene*	<0.182	0.400	0.182	mg/kg	400	11/02/22 14:54	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.168	0.400	0.168	mg/kg	400	11/02/22 14:54	8270C		MS
Dibenz[a,h]anthracene*	<0.186	0.400	0.186	mg/kg	400	11/02/22 14:54	8270C		MS
Surrogate: Nitrobenzene-d5			34.5 %	39.6-121		11/02/22 14:54	8270C	S-BN	MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-20 (0-5')

2210207-23 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Polynuclear Aromatic Compounds by GC/MS

Surrogate: 2-Fluorobiphenyl	62.2 %	39.8-134				11/02/22 14:54	8270C		MS
Surrogate: Terphenyl-d14	68.3 %	33.3-136				11/02/22 14:54	8270C		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-20 (10-15')

2210207-24 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	10/24/22 21:42	8015B		MS
DRO >C10-C28*	10.4	10.0	4.26	mg/kg	1	10/24/22 21:42	8015B		MS
EXT DRO >C28-C36	26.0	10.0	4.26	mg/kg	1	10/24/22 21:42	8015B		MS
<i>Surrogate: 1-Chlorooctane</i>			107 %	45.3-161		10/24/22 21:42	8015B		MS
<i>Surrogate: 1-Chlorooctadecane</i>			124 %	46.3-178		10/24/22 21:42	8015B		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-22 (0-5')

2210207-25 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	10/24/22 22:05	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	10/24/22 22:05	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	10/24/22 22:05	8015B		MS
Surrogate: 1-Chlorooctane			105 %	45.3-161		10/24/22 22:05	8015B		MS
Surrogate: 1-Chlorooctadecane			119 %	46.3-178		10/24/22 22:05	8015B		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-24 (0-5')

2210207-26 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	10/24/22 22:29	8015B		MS
DRO >C10-C28*	12.5	10.0	4.26	mg/kg	1	10/24/22 22:29	8015B		MS
EXT DRO >C28-C36	12.7	10.0	4.26	mg/kg	1	10/24/22 22:29	8015B		MS
Surrogate: 1-Chlorooctane			102 %	45.3-161		10/24/22 22:29	8015B		MS
Surrogate: 1-Chlorooctadecane			118 %	46.3-178		10/24/22 22:29	8015B		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-24 (15-18')

2210207-27 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	10/24/22 22:53	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	10/24/22 22:53	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	10/24/22 22:53	8015B		MS
Surrogate: 1-Chlorooctane			100 %	45.3-161		10/24/22 22:53	8015B		MS
Surrogate: 1-Chlorooctadecane			116 %	46.3-178		10/24/22 22:53	8015B		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-25 (0-5')

2210207-28 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

Hexavalent Chromium	0.874	0.250	0.128	mg/kg dry	25	11/02/22 12:17	3060A/3500-Cr B		HTB
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Saturated Paste Extraction

Calcium	66.4	0.100	0.058	mg/L	1	11/11/22 14:16	EPA200.7		AES
Conductivity	490			umho/cm@25 C	1	11/08/22 09:15	ASA#9 10-3.3		AWG
Magnesium	10.5	0.100	0.065	mg/L	1	11/11/22 14:16	EPA200.7		AES
pH	7.19			pH Units	1	11/08/22 09:15	ASA#9 10-3.2		AWG
SAR	0.88			No Unit	1	11/11/22 14:16	Calculation		AES
Sodium	29.1	1.00	0.079	mg/L	1	11/11/22 14:16	EPA200.7		AES

Total Metals by ICP

Barium	117	5.00	1.10	mg/kg dry	100	11/04/22 15:21	6010B		AES
Cadmium	<5.00	5.00	2.54	mg/kg dry	100	11/04/22 15:21	6010B		AES
Chromium	14.8	5.00	1.58	mg/kg dry	100	11/04/22 15:21	6010B		AES
Copper	11.8	5.00	2.83	mg/kg dry	100	11/04/22 15:21	6010B		AES
Lead	<10.0	10.0	4.02	mg/kg dry	100	11/04/22 15:21	6010B		AES
Nickel	9.06	5.00	2.41	mg/kg dry	100	11/04/22 15:21	6010B		AES
Selenium	<20.0	20.0	5.39	mg/kg dry	100	11/04/22 15:20	6010B		AES
Silver	<1.00	1.00	0.518	mg/kg dry	100	11/04/22 15:20	6010B		AES
Zinc	49.0	10.0	2.18	mg/kg dry	100	11/04/22 15:21	6010B		AES

Total Metals by ICPMS

Arsenic	4.57	1.00	0.158	mg/kg dry	1000	11/07/22 11:49	6020A		AES
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Hot Water Extractable

Boron	<1.20	1.20	0.568	mg/L	4	11/08/22 16:17	EPA200.7		AES
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	76.5	50.0	31.2	mg/kg	5	10/25/22 02:41	8015B		MS
DRO >C10-C28*	492	50.0	21.3	mg/kg	5	10/25/22 02:41	8015B		MS
EXT DRO >C28-C36	287	50.0	21.3	mg/kg	5	10/25/22 02:41	8015B		MS

Surrogate: 1-Chlorooctane			112 %	45.3-161		10/25/22 02:41	8015B		MS
Surrogate: 1-Chlorooctadecane			143 %	46.3-178		10/25/22 02:41	8015B		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-25 (0-5')

2210207-28 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

VOLATILES BY GC/MS

Benzene*	<0.0250	0.0250	0.00885	mg/kg	50	11/01/22 10:35	8260B		MS
Toluene*	<0.0250	0.0250	0.00670	mg/kg	50	11/01/22 10:35	8260B		MS
Ethylbenzene*	<0.0250	0.0250	0.00405	mg/kg	50	11/01/22 10:35	8260B		MS
m+p - Xylene*	<0.0500	0.0500	0.0186	mg/kg	50	11/01/22 10:35	8260B		MS
o-Xylene*	<0.0250	0.0250	0.00700	mg/kg	50	11/01/22 10:35	8260B		MS
Total Xylenes*	<0.0750	0.0750	0.0256	mg/kg	50	11/01/22 10:35	8260B		MS
1,3,5-Trimethylbenzene	0.938	0.0250	0.00450	mg/kg	50	11/01/22 10:35	8260B		MS
1,2,4-Trimethylbenzene	0.0346	0.0250	0.00650	mg/kg	50	11/01/22 10:35	8260B		MS
Naphthalene*	0.570	0.0250	0.00500	mg/kg	50	11/01/22 10:35	8260B		MS

Surrogate: Dibromofluoromethane			98.0 %	84.6-114		11/01/22 10:35	8260B		MS
Surrogate: Toluene-d8			98.4 %	90.4-109		11/01/22 10:35	8260B		MS
Surrogate: 4-Bromofluorobenzene			189 %	82.5-117		11/01/22 10:35	8260B	S-04	MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	0.157	0.400	0.153	mg/kg	400	11/03/22 16:51	8270C	J	MS
2-Methylnaphthalene*	<0.226	0.400	0.226	mg/kg	400	11/03/22 16:51	8270C		MS
1-Methylnaphthalene	<0.161	0.400	0.161	mg/kg	400	11/03/22 16:51	8270C		MS
Acenaphthene*	<0.235	0.400	0.235	mg/kg	400	11/03/22 16:51	8270C		MS
Fluorene*	0.319	0.400	0.142	mg/kg	400	11/03/22 16:51	8270C	J	MS
Anthracene*	<0.172	0.400	0.172	mg/kg	400	11/03/22 16:51	8270C		MS
Fluoranthene*	<0.185	0.400	0.185	mg/kg	400	11/03/22 16:51	8270C		MS
Pyrene*	<0.132	0.400	0.132	mg/kg	400	11/03/22 16:51	8270C		MS
Benzo[a]anthracene*	<0.230	0.400	0.230	mg/kg	400	11/03/22 16:51	8270C		MS
Chrysene	0.323	0.400	0.172	mg/kg	400	11/03/22 16:51	8270C	J	MS
Benzo[b]flouranthene*	<0.192	0.400	0.192	mg/kg	400	11/03/22 16:51	8270C		MS
Benzo[k]flouranthene*	<0.157	0.400	0.157	mg/kg	400	11/03/22 16:51	8270C		MS
Benzo[a]pyrene*	<0.182	0.400	0.182	mg/kg	400	11/03/22 16:51	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.168	0.400	0.168	mg/kg	400	11/03/22 16:51	8270C		MS
Dibenz[a,h]anthracene*	<0.186	0.400	0.186	mg/kg	400	11/03/22 16:51	8270C		MS

Surrogate: Nitrobenzene-d5			44.1 %	39.6-121		11/03/22 16:51	8270C		MS
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Jeremy D Allen, Laboratory Director

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-25 (0-5')

2210207-28 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Polynuclear Aromatic Compounds by GC/MS

Surrogate: 2-Fluorobiphenyl	61.5 %	39.8-134				11/03/22 16:51	8270C		MS
Surrogate: Terphenyl-d14	81.8 %	33.3-136				11/03/22 16:51	8270C		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-26 (15-19')

2210207-29 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

S-06

GRO C6-C10*	2390	50.0	31.2	mg/kg	5	10/25/22 03:05	8015B		MS
DRO >C10-C28*	8330	50.0	21.3	mg/kg	5	10/25/22 03:05	8015B		MS
EXT DRO >C28-C36	1820	50.0	21.3	mg/kg	5	10/25/22 03:05	8015B		MS
Surrogate: 1-Chlorooctane			269 %	45.3-161		10/25/22 03:05	8015B		MS
Surrogate: 1-Chlorooctadecane			336 %	46.3-178		10/25/22 03:05	8015B		MS

VOLATILES BY GC/MS

Benzene*	<0.250	0.250	0.0885	mg/kg	500	11/01/22 10:57	8260B		MS
Toluene*	<0.250	0.250	0.0670	mg/kg	500	11/01/22 10:57	8260B		MS
Ethylbenzene*	2.42	0.250	0.0405	mg/kg	500	11/01/22 10:57	8260B		MS
m+p - Xylene*	<0.500	0.500	0.186	mg/kg	500	11/01/22 10:57	8260B		MS
o-Xylene*	<0.250	0.250	0.0700	mg/kg	500	11/01/22 10:57	8260B		MS
Total Xylenes*	<0.750	0.750	0.256	mg/kg	500	11/01/22 10:57	8260B		MS
1,3,5-Trimethylbenzene	<0.250	0.250	0.0450	mg/kg	500	11/01/22 10:57	8260B		MS
1,2,4-Trimethylbenzene	3.87	0.250	0.0650	mg/kg	500	11/01/22 10:57	8260B		MS
Naphthalene*	8.28	0.250	0.0500	mg/kg	500	11/01/22 10:57	8260B		MS
Surrogate: Dibromofluoromethane			102 %	84.6-114		11/01/22 10:57	8260B		MS
Surrogate: Toluene-d8			99.0 %	90.4-109		11/01/22 10:57	8260B		MS
Surrogate: 4-Bromofluorobenzene			135 %	82.5-117		11/01/22 10:57	8260B	S-04	MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	2.63	0.400	0.153	mg/kg	400	11/03/22 17:21	8270C		MS
2-Methylnaphthalene*	16.5	0.400	0.226	mg/kg	400	11/03/22 17:21	8270C		MS
1-Methylnaphthalene	13.3	0.400	0.161	mg/kg	400	11/03/22 17:21	8270C		MS
Acenaphthene*	<0.235	0.400	0.235	mg/kg	400	11/03/22 17:21	8270C		MS
Fluorene*	2.82	0.400	0.142	mg/kg	400	11/03/22 17:21	8270C		MS
Anthracene*	<0.172	0.400	0.172	mg/kg	400	11/03/22 17:21	8270C		MS
Fluoranthene*	0.252	0.400	0.185	mg/kg	400	11/03/22 17:21	8270C	J	MS
Pyrene*	0.872	0.400	0.132	mg/kg	400	11/03/22 17:21	8270C		MS
Benzo[a]anthracene*	<0.230	0.400	0.230	mg/kg	400	11/03/22 17:21	8270C		MS

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Jeremy D Allen, Laboratory Director



Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-26 (15-19')

2210207-29 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Polynuclear Aromatic Compounds by GC/MS

Chrysene	1.21	0.400	0.172	mg/kg	400	11/03/22 17:21	8270C		MS
Benzo[b]flouranthene*	0.254	0.400	0.192	mg/kg	400	11/03/22 17:21	8270C	J	MS
Benzo[k]flouranthene*	<0.157	0.400	0.157	mg/kg	400	11/03/22 17:21	8270C		MS
Benzo[a]pyrene*	<0.182	0.400	0.182	mg/kg	400	11/03/22 17:21	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.168	0.400	0.168	mg/kg	400	11/03/22 17:21	8270C		MS
Dibenz[a,h]anthracene*	<0.186	0.400	0.186	mg/kg	400	11/03/22 17:21	8270C		MS
<i>Surrogate: Nitrobenzene-d5</i>			23.4 %	39.6-121		11/03/22 17:21	8270C	S-BN	MS
<i>Surrogate: 2-Fluorobiphenyl</i>			48.8 %	39.8-134		11/03/22 17:21	8270C		MS
<i>Surrogate: Terphenyl-dl4</i>			63.1 %	33.3-136		11/03/22 17:21	8270C		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-27 (14-17'6")

2210207-30 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	10/24/22 23:15	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	10/24/22 23:15	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	10/24/22 23:15	8015B		MS
Surrogate: 1-Chlorooctane			109 %	45.3-161		10/24/22 23:15	8015B		MS
Surrogate: 1-Chlorooctadecane			126 %	46.3-178		10/24/22 23:15	8015B		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-29 (0-5')

2210207-31 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	10/24/22 23:38	8015B		MS
DRO >C10-C28*	75.2	10.0	4.26	mg/kg	1	10/24/22 23:38	8015B		MS
EXT DRO >C28-C36	75.0	10.0	4.26	mg/kg	1	10/24/22 23:38	8015B		MS
Surrogate: 1-Chlorooctane			107 %	45.3-161		10/24/22 23:38	8015B		MS
Surrogate: 1-Chlorooctadecane			133 %	46.3-178		10/24/22 23:38	8015B		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-29 (15-18')

2210207-32 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	222	10.0	6.25	mg/kg	1	10/25/22 00:03	8015B		MS
DRO >C10-C28*	1400	10.0	4.26	mg/kg	1	10/25/22 00:03	8015B		MS
EXT DRO >C28-C36	302	10.0	4.26	mg/kg	1	10/25/22 00:03	8015B		MS
Surrogate: 1-Chlorooctane			139 %	45.3-161		10/25/22 00:03	8015B		MS
Surrogate: 1-Chlorooctadecane			148 %	46.3-178		10/25/22 00:03	8015B		MS

VOLATILES BY GC/MS

Benzene*	<0.0250	0.0250	0.00885	mg/kg	50	11/01/22 11:19	8260B		MS
Toluene*	<0.0250	0.0250	0.00670	mg/kg	50	11/01/22 11:19	8260B		MS
Ethylbenzene*	0.0749	0.0250	0.00405	mg/kg	50	11/01/22 11:19	8260B		MS
m+p - Xylene*	<0.0500	0.0500	0.0186	mg/kg	50	11/01/22 11:19	8260B		MS
o-Xylene*	0.0447	0.0250	0.00700	mg/kg	50	11/01/22 11:19	8260B		MS
Total Xylenes*	<0.0750	0.0750	0.0256	mg/kg	50	11/01/22 11:19	8260B		MS
1,3,5-Trimethylbenzene	<0.0250	0.0250	0.00450	mg/kg	50	11/01/22 11:19	8260B		MS
1,2,4-Trimethylbenzene	<0.0250	0.0250	0.00650	mg/kg	50	11/01/22 11:19	8260B		MS
Naphthalene*	1.24	0.0250	0.00500	mg/kg	50	11/01/22 11:19	8260B		MS
Surrogate: Dibromofluoromethane			99.8 %	84.6-114		11/01/22 11:19	8260B		MS
Surrogate: Toluene-d8			98.5 %	90.4-109		11/01/22 11:19	8260B		MS
Surrogate: 4-Bromofluorobenzene			176 %	82.5-117		11/01/22 11:19	8260B	S-04	MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	0.031	0.040	0.015	mg/kg	40	11/02/22 16:26	8270C	J	MS
2-Methylnaphthalene*	1.24	0.040	0.023	mg/kg	40	11/02/22 16:26	8270C		MS
1-Methylnaphthalene	1.05	0.040	0.016	mg/kg	40	11/02/22 16:26	8270C		MS
Acenaphthene*	<0.024	0.040	0.024	mg/kg	40	11/02/22 16:26	8270C		MS
Fluorene*	0.483	0.040	0.014	mg/kg	40	11/02/22 16:26	8270C		MS
Anthracene*	<0.017	0.040	0.017	mg/kg	40	11/02/22 16:26	8270C		MS
Fluoranthene*	0.048	0.040	0.019	mg/kg	40	11/02/22 16:26	8270C		MS
Pyrene*	0.164	0.040	0.013	mg/kg	40	11/02/22 16:26	8270C		MS
Benzo[a]anthracene*	<0.023	0.040	0.023	mg/kg	40	11/02/22 16:26	8270C		MS

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: MS Centralized Tank Battery	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	11/30/22 10:49

BH-29 (15-18')

2210207-32 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Polynuclear Aromatic Compounds by GC/MS

Chrysene	0.242	0.040	0.017	mg/kg	40	11/02/22 16:26	8270C		MS
Benzo[b]flouranthene*	0.047	0.040	0.019	mg/kg	40	11/02/22 16:26	8270C		MS
Benzo[k]flouranthene*	<0.016	0.040	0.016	mg/kg	40	11/02/22 16:26	8270C		MS
Benzo[a]pyrene*	<0.018	0.040	0.018	mg/kg	40	11/02/22 16:26	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.017	0.040	0.017	mg/kg	40	11/02/22 16:26	8270C		MS
Dibenz[a,h]anthracene*	<0.019	0.040	0.019	mg/kg	40	11/02/22 16:26	8270C		MS
<i>Surrogate: Nitrobenzene-d5</i>			42.8 %	39.6-121		11/02/22 16:26	8270C		MS
<i>Surrogate: 2-Fluorobiphenyl</i>			70.4 %	39.8-134		11/02/22 16:26	8270C		MS
<i>Surrogate: Terphenyl-dl4</i>			95.5 %	33.3-136		11/02/22 16:26	8270C		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-30 (15-18')

2210207-33 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

S-06

GRO C6-C10*	1030	50.0	31.2	mg/kg	5	10/25/22 03:27	8015B		MS
DRO >C10-C28*	3200	50.0	21.3	mg/kg	5	10/25/22 03:27	8015B		MS
EXT DRO >C28-C36	825	50.0	21.3	mg/kg	5	10/25/22 03:27	8015B		MS
Surrogate: 1-Chlorooctane			157 %	45.3-161		10/25/22 03:27	8015B		MS
Surrogate: 1-Chlorooctadecane			196 %	46.3-178		10/25/22 03:27	8015B		MS

VOLATILES BY GC/MS

Benzene*	<0.250	0.250	0.0885	mg/kg	500	11/01/22 11:42	8260B		MS
Toluene*	<0.250	0.250	0.0670	mg/kg	500	11/01/22 11:42	8260B		MS
Ethylbenzene*	3.74	0.250	0.0405	mg/kg	500	11/01/22 11:42	8260B		MS
m+p - Xylene*	<0.500	0.500	0.186	mg/kg	500	11/01/22 11:42	8260B		MS
o-Xylene*	<0.250	0.250	0.0700	mg/kg	500	11/01/22 11:42	8260B		MS
Total Xylenes*	<0.750	0.750	0.256	mg/kg	500	11/01/22 11:42	8260B		MS
1,3,5-Trimethylbenzene	0.495	0.250	0.0450	mg/kg	500	11/01/22 11:42	8260B		MS
1,2,4-Trimethylbenzene	6.86	0.250	0.0650	mg/kg	500	11/01/22 11:42	8260B		MS
Naphthalene*	7.99	0.250	0.0500	mg/kg	500	11/01/22 11:42	8260B		MS
Surrogate: Dibromofluoromethane			101 %	84.6-114		11/01/22 11:42	8260B		MS
Surrogate: Toluene-d8			95.1 %	90.4-109		11/01/22 11:42	8260B		MS
Surrogate: 4-Bromofluorobenzene			126 %	82.5-117		11/01/22 11:42	8260B	S-04	MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	2.10	0.800	0.306	mg/kg	800	11/03/22 14:17	8270C		MS
2-Methylnaphthalene*	14.3	0.800	0.452	mg/kg	800	11/03/22 14:17	8270C		MS
1-Methylnaphthalene	11.0	0.800	0.322	mg/kg	800	11/03/22 14:17	8270C		MS
Acenaphthene*	<0.470	0.800	0.470	mg/kg	800	11/03/22 14:17	8270C		MS
Fluorene*	2.72	0.800	0.285	mg/kg	800	11/03/22 14:17	8270C		MS
Anthracene*	<0.343	0.800	0.343	mg/kg	800	11/03/22 14:17	8270C		MS
Fluoranthene*	<0.370	0.800	0.370	mg/kg	800	11/03/22 14:17	8270C		MS
Pyrene*	0.828	0.800	0.263	mg/kg	800	11/03/22 14:17	8270C		MS
Benzo[a]anthracene*	<0.461	0.800	0.461	mg/kg	800	11/03/22 14:17	8270C		MS

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Jeremy D Allen, Laboratory Director



Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-30 (15-18')

2210207-33 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Polynuclear Aromatic Compounds by GC/MS

Chrysene	1.26	0.800	0.344	mg/kg	800	11/03/22 14:17	8270C		MS
Benzo[b]flouranthene*	<0.383	0.800	0.383	mg/kg	800	11/03/22 14:17	8270C		MS
Benzo[k]flouranthene*	<0.314	0.800	0.314	mg/kg	800	11/03/22 14:17	8270C		MS
Benzo[a]pyrene*	<0.363	0.800	0.363	mg/kg	800	11/03/22 14:17	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.336	0.800	0.336	mg/kg	800	11/03/22 14:17	8270C		MS
Dibenz[a,h]anthracene*	<0.371	0.800	0.371	mg/kg	800	11/03/22 14:17	8270C		MS
<i>Surrogate: Nitrobenzene-d5</i>			40.8 %	39.6-121		11/03/22 14:17	8270C		MS
<i>Surrogate: 2-Fluorobiphenyl</i>			79.5 %	39.8-134		11/03/22 14:17	8270C		MS
<i>Surrogate: Terphenyl-dl4</i>			99.4 %	33.3-136		11/03/22 14:17	8270C		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-31 (0-5')

2210207-34 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

Hexavalent Chromium	1.89	0.250	0.128	mg/kg dry	25	11/02/22 12:17	3060A/3500-Cr B		HTB
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Saturated Paste Extraction

Calcium	50.5	0.200	0.116	mg/L	2	11/11/22 14:18	EPA200.7		AES
Conductivity	1200			umho/cm@25 C	1	11/08/22 09:15	ASA#9 10-3.3		AWG
Magnesium	9.40	0.200	0.131	mg/L	2	11/11/22 14:18	EPA200.7		AES
pH	7.53			pH Units	1	11/08/22 09:15	ASA#9 10-3.2		AWG
SAR	7.08			No Unit	1	11/11/22 14:18	Calculation		AES
Sodium	209	2.00	0.159	mg/L	2	11/11/22 14:18	EPA200.7		AES

Total Metals by ICP

Barium	106	5.00	1.10	mg/kg dry	100	11/04/22 15:25	6010B		AES
Cadmium	<5.00	5.00	2.54	mg/kg dry	100	11/04/22 15:25	6010B		AES
Chromium	20.2	5.00	1.58	mg/kg dry	100	11/04/22 15:25	6010B		AES
Copper	16.9	5.00	2.83	mg/kg dry	100	11/04/22 15:25	6010B		AES
Lead	11.8	10.0	4.02	mg/kg dry	100	11/04/22 15:25	6010B		AES
Nickel	11.9	5.00	2.41	mg/kg dry	100	11/04/22 15:25	6010B		AES
Selenium	<20.0	20.0	5.39	mg/kg dry	100	11/04/22 15:24	6010B		AES
Silver	<1.00	1.00	0.518	mg/kg dry	100	11/04/22 15:24	6010B		AES
Zinc	55.4	10.0	2.18	mg/kg dry	100	11/04/22 15:25	6010B		AES

Total Metals by ICPMS

Arsenic	3.09	1.00	0.158	mg/kg dry	1000	11/07/22 11:50	6020A		AES
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Hot Water Extractable

Boron	<1.20	1.20	0.568	mg/L	4	11/08/22 16:19	EPA200.7		AES
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

S-06

GRO C6-C10*	464	50.0	31.2	mg/kg	5	10/25/22 03:49	8015B		MS
DRO >C10-C28*	3920	50.0	21.3	mg/kg	5	10/25/22 03:49	8015B		MS
EXT DRO >C28-C36	1230	50.0	21.3	mg/kg	5	10/25/22 03:49	8015B		MS

Surrogate: 1-Chlorooctane 135 % 45.3-161 10/25/22 03:49 8015B MS

Surrogate: 1-Chlorooctadecane 218 % 46.3-178 10/25/22 03:49 8015B MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-31 (0-5')

2210207-34 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

VOLATILES BY GC/MS

Benzene*	<0.250	0.250	0.0885	mg/kg	500	11/01/22 12:04	8260B		MS
Toluene*	<0.250	0.250	0.0670	mg/kg	500	11/01/22 12:04	8260B		MS
Ethylbenzene*	<0.250	0.250	0.0405	mg/kg	500	11/01/22 12:04	8260B		MS
m+p - Xylene*	<0.500	0.500	0.186	mg/kg	500	11/01/22 12:04	8260B		MS
o-Xylene*	<0.250	0.250	0.0700	mg/kg	500	11/01/22 12:04	8260B		MS
Total Xylenes*	<0.750	0.750	0.256	mg/kg	500	11/01/22 12:04	8260B		MS
1,3,5-Trimethylbenzene	1.10	0.250	0.0450	mg/kg	500	11/01/22 12:04	8260B		MS
1,2,4-Trimethylbenzene	3.26	0.250	0.0650	mg/kg	500	11/01/22 12:04	8260B		MS
Naphthalene*	1.92	0.250	0.0500	mg/kg	500	11/01/22 12:04	8260B		MS
Surrogate: Dibromofluoromethane			100 %	84.6-114		11/01/22 12:04	8260B		MS
Surrogate: Toluene-d8			93.2 %	90.4-109		11/01/22 12:04	8260B		MS
Surrogate: 4-Bromofluorobenzene			117 %	82.5-117		11/01/22 12:04	8260B		MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	0.736	0.400	0.153	mg/kg	400	11/03/22 17:52	8270C		MS
2-Methylnaphthalene*	5.41	0.400	0.226	mg/kg	400	11/03/22 17:52	8270C		MS
1-Methylnaphthalene	5.64	0.400	0.161	mg/kg	400	11/03/22 17:52	8270C		MS
Acenaphthene*	<0.235	0.400	0.235	mg/kg	400	11/03/22 17:52	8270C		MS
Fluorene*	1.49	0.400	0.142	mg/kg	400	11/03/22 17:52	8270C		MS
Anthracene*	<0.172	0.400	0.172	mg/kg	400	11/03/22 17:52	8270C		MS
Fluoranthene*	0.203	0.400	0.185	mg/kg	400	11/03/22 17:52	8270C	J	MS
Pyrene*	0.823	0.400	0.132	mg/kg	400	11/03/22 17:52	8270C		MS
Benzo[a]anthracene*	1.11	0.400	0.230	mg/kg	400	11/03/22 17:52	8270C		MS
Chrysene	1.34	0.400	0.172	mg/kg	400	11/03/22 17:52	8270C		MS
Benzo[b]fluoranthene*	0.320	0.400	0.192	mg/kg	400	11/03/22 17:52	8270C	J	MS
Benzo[k]fluoranthene*	<0.157	0.400	0.157	mg/kg	400	11/03/22 17:52	8270C		MS
Benzo[a]pyrene*	<0.182	0.400	0.182	mg/kg	400	11/03/22 17:52	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.168	0.400	0.168	mg/kg	400	11/03/22 17:52	8270C		MS
Dibenz[a,h]anthracene*	<0.186	0.400	0.186	mg/kg	400	11/03/22 17:52	8270C		MS
Surrogate: Nitrobenzene-d5			36.5 %	39.6-121		11/03/22 17:52	8270C	S-BN	MS

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: MS Centralized Tank Battery	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	11/30/22 10:49

BH-31 (0-5')

2210207-34 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Polynuclear Aromatic Compounds by GC/MS

Surrogate: 2-Fluorobiphenyl	74.7 %	39.8-134				11/03/22 17:52	8270C		MS
Surrogate: Terphenyl-d14	97.5 %	33.3-136				11/03/22 17:52	8270C		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-31 (15-19')

2210207-35 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

S-06

GRO C6-C10*	1370	50.0	31.2	mg/kg	5	10/25/22 04:11	8015B		MS
DRO >C10-C28*	4610	50.0	21.3	mg/kg	5	10/25/22 04:11	8015B		MS
EXT DRO >C28-C36	1110	50.0	21.3	mg/kg	5	10/25/22 04:11	8015B		MS
Surrogate: 1-Chlorooctane			201 %	45.3-161		10/25/22 04:11	8015B		MS
Surrogate: 1-Chlorooctadecane			221 %	46.3-178		10/25/22 04:11	8015B		MS

VOLATILES BY GC/MS

Benzene*	<0.250	0.250	0.0885	mg/kg	500	11/01/22 12:26	8260B		MS
Toluene*	<0.250	0.250	0.0670	mg/kg	500	11/01/22 12:26	8260B		MS
Ethylbenzene*	1.61	0.250	0.0405	mg/kg	500	11/01/22 12:26	8260B		MS
m+p - Xylene*	2.00	0.500	0.186	mg/kg	500	11/01/22 12:26	8260B		MS
o-Xylene*	<0.250	0.250	0.0700	mg/kg	500	11/01/22 12:26	8260B		MS
Total Xylenes*	2.12	0.750	0.256	mg/kg	500	11/01/22 12:26	8260B		MS
1,3,5-Trimethylbenzene	<0.250	0.250	0.0450	mg/kg	500	11/01/22 12:26	8260B		MS
1,2,4-Trimethylbenzene	<0.250	0.250	0.0650	mg/kg	500	11/01/22 12:26	8260B		MS
Naphthalene*	7.54	0.250	0.0500	mg/kg	500	11/01/22 12:26	8260B		MS
Surrogate: Dibromofluoromethane			99.6 %	84.6-114		11/01/22 12:26	8260B		MS
Surrogate: Toluene-d8			97.3 %	90.4-109		11/01/22 12:26	8260B		MS
Surrogate: 4-Bromofluorobenzene			126 %	82.5-117		11/01/22 12:26	8260B	S-04	MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	1.26	0.400	0.153	mg/kg	400	11/03/22 18:23	8270C		MS
2-Methylnaphthalene*	12.3	0.400	0.226	mg/kg	400	11/03/22 18:23	8270C		MS
1-Methylnaphthalene	9.57	0.400	0.161	mg/kg	400	11/03/22 18:23	8270C		MS
Acenaphthene*	<0.235	0.400	0.235	mg/kg	400	11/03/22 18:23	8270C		MS
Fluorene*	2.17	0.400	0.142	mg/kg	400	11/03/22 18:23	8270C		MS
Anthracene*	<0.172	0.400	0.172	mg/kg	400	11/03/22 18:23	8270C		MS
Fluoranthene*	0.205	0.400	0.185	mg/kg	400	11/03/22 18:23	8270C	J	MS
Pyrene*	0.694	0.400	0.132	mg/kg	400	11/03/22 18:23	8270C		MS
Benzo[a]anthracene*	<0.230	0.400	0.230	mg/kg	400	11/03/22 18:23	8270C		MS

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Jeremy D Allen, Laboratory Director



Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-31 (15-19')

2210207-35 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Polynuclear Aromatic Compounds by GC/MS

Chrysene	1.12	0.400	0.172	mg/kg	400	11/03/22 18:23	8270C		MS
Benzo[b]flouranthene*	0.198	0.400	0.192	mg/kg	400	11/03/22 18:23	8270C	J	MS
Benzo[k]flouranthene*	<0.157	0.400	0.157	mg/kg	400	11/03/22 18:23	8270C		MS
Benzo[a]pyrene*	<0.182	0.400	0.182	mg/kg	400	11/03/22 18:23	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.168	0.400	0.168	mg/kg	400	11/03/22 18:23	8270C		MS
Dibenz[a,h]anthracene*	<0.186	0.400	0.186	mg/kg	400	11/03/22 18:23	8270C		MS
<i>Surrogate: Nitrobenzene-d5</i>			27.8 %	39.6-121		11/03/22 18:23	8270C	S-BN	MS
<i>Surrogate: 2-Fluorobiphenyl</i>			77.2 %	39.8-134		11/03/22 18:23	8270C		MS
<i>Surrogate: Terphenyl-dl4</i>			98.6 %	33.3-136		11/03/22 18:23	8270C		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-32 (0-3')

2210207-36 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	11.4	10.0	6.25	mg/kg	1	10/25/22 00:25	8015B		MS
DRO >C10-C28*	177	10.0	4.26	mg/kg	1	10/25/22 00:25	8015B		MS
EXT DRO >C28-C36	98.4	10.0	4.26	mg/kg	1	10/25/22 00:25	8015B		MS
<i>Surrogate: 1-Chlorooctane</i>			98.5 %	45.3-161		10/25/22 00:25	8015B		MS
<i>Surrogate: 1-Chlorooctadecane</i>			132 %	46.3-178		10/25/22 00:25	8015B		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-33 (0-5')

2210207-37 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

Hexavalent Chromium	<0.250	0.250	0.128	mg/kg dry	25	11/02/22 12:17	3060A/3500-Cr B		HTB
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Saturated Paste Extraction

Calcium	63.0	0.100	0.058	mg/L	1	11/11/22 14:20	EPA200.7		AES
Conductivity	630			umho/cm@25 C	1	11/08/22 09:15	ASA#9 10-3.3		AWG
Magnesium	9.30	0.100	0.065	mg/L	1	11/11/22 14:20	EPA200.7		AES
pH	7.36			pH Units	1	11/08/22 09:15	ASA#9 10-3.2		AWG
SAR	1.98			No Unit	1	11/11/22 14:20	Calculation		AES
Sodium	63.5	1.00	0.079	mg/L	1	11/11/22 14:20	EPA200.7		AES

Total Metals by ICP

Barium	162	5.00	1.10	mg/kg dry	100	11/04/22 15:29	6010B		AES
Cadmium	<5.00	5.00	2.54	mg/kg dry	100	11/04/22 15:30	6010B		AES
Chromium	18.8	5.00	1.58	mg/kg dry	100	11/04/22 15:30	6010B		AES
Copper	18.0	5.00	2.83	mg/kg dry	100	11/04/22 15:29	6010B		AES
Lead	<10.0	10.0	4.02	mg/kg dry	100	11/04/22 15:30	6010B		AES
Nickel	10.1	5.00	2.41	mg/kg dry	100	11/04/22 15:30	6010B		AES
Selenium	<20.0	20.0	5.39	mg/kg dry	100	11/04/22 15:29	6010B		AES
Silver	<1.00	1.00	0.518	mg/kg dry	100	11/04/22 15:29	6010B		AES
Zinc	65.1	10.0	2.18	mg/kg dry	100	11/04/22 15:30	6010B		AES

Total Metals by ICPMS

Arsenic	2.43	1.00	0.158	mg/kg dry	1000	11/07/22 11:52	6020A		AES
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Hot Water Extractable

Boron	<1.20	1.20	0.568	mg/L	4	11/08/22 16:22	EPA200.7		AES
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

S-04

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	10/25/22 00:47	8015B		MS
DRO >C10-C28*	376	10.0	4.26	mg/kg	1	10/25/22 00:47	8015B		MS
EXT DRO >C28-C36	207	10.0	4.26	mg/kg	1	10/25/22 00:47	8015B		MS

Surrogate: 1-Chlorooctane 122 % 45.3-161 10/25/22 00:47 8015B MS

Surrogate: 1-Chlorooctadecane 220 % 46.3-178 10/25/22 00:47 8015B MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-33 (0-5')

2210207-37 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

VOLATILES BY GC/MS

Benzene*	<0.0250	0.0250	0.00885	mg/kg	50	11/01/22 12:49	8260B		MS
Toluene*	<0.0250	0.0250	0.00670	mg/kg	50	11/01/22 12:49	8260B		MS
Ethylbenzene*	<0.0250	0.0250	0.00405	mg/kg	50	11/01/22 12:49	8260B		MS
m+p - Xylene*	<0.0500	0.0500	0.0186	mg/kg	50	11/01/22 12:49	8260B		MS
o-Xylene*	<0.0250	0.0250	0.00700	mg/kg	50	11/01/22 12:49	8260B		MS
Total Xylenes*	<0.0750	0.0750	0.0256	mg/kg	50	11/01/22 12:49	8260B		MS
1,3,5-Trimethylbenzene	<0.0250	0.0250	0.00450	mg/kg	50	11/01/22 12:49	8260B		MS
1,2,4-Trimethylbenzene	<0.0250	0.0250	0.00650	mg/kg	50	11/01/22 12:49	8260B		MS
Naphthalene*	<0.0250	0.0250	0.00500	mg/kg	50	11/01/22 12:49	8260B		MS
Surrogate: Dibromofluoromethane			98.8 %	84.6-114		11/01/22 12:49	8260B		MS
Surrogate: Toluene-d8			93.3 %	90.4-109		11/01/22 12:49	8260B		MS
Surrogate: 4-Bromofluorobenzene			112 %	82.5-117		11/01/22 12:49	8260B		MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.153	0.400	0.153	mg/kg	400	11/03/22 18:53	8270C		MS
2-Methylnaphthalene*	<0.226	0.400	0.226	mg/kg	400	11/03/22 18:53	8270C		MS
1-Methylnaphthalene	<0.161	0.400	0.161	mg/kg	400	11/03/22 18:53	8270C		MS
Acenaphthene*	<0.235	0.400	0.235	mg/kg	400	11/03/22 18:53	8270C		MS
Fluorene*	<0.142	0.400	0.142	mg/kg	400	11/03/22 18:53	8270C		MS
Anthracene*	<0.172	0.400	0.172	mg/kg	400	11/03/22 18:53	8270C		MS
Fluoranthene*	<0.185	0.400	0.185	mg/kg	400	11/03/22 18:53	8270C		MS
Pyrene*	0.150	0.400	0.132	mg/kg	400	11/03/22 18:53	8270C	J	MS
Benzo[a]anthracene*	<0.230	0.400	0.230	mg/kg	400	11/03/22 18:53	8270C		MS
Chrysene	0.525	0.400	0.172	mg/kg	400	11/03/22 18:53	8270C		MS
Benzo[b]fluoranthene*	<0.192	0.400	0.192	mg/kg	400	11/03/22 18:53	8270C		MS
Benzo[k]fluoranthene*	<0.157	0.400	0.157	mg/kg	400	11/03/22 18:53	8270C		MS
Benzo[a]pyrene*	<0.182	0.400	0.182	mg/kg	400	11/03/22 18:53	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.168	0.400	0.168	mg/kg	400	11/03/22 18:53	8270C		MS
Dibenz[a,h]anthracene*	<0.186	0.400	0.186	mg/kg	400	11/03/22 18:53	8270C		MS
Surrogate: Nitrobenzene-d5			48.3 %	39.6-121		11/03/22 18:53	8270C		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-33 (0-5')

2210207-37 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Polynuclear Aromatic Compounds by GC/MS

Surrogate: 2-Fluorobiphenyl	65.2 %	39.8-134				11/03/22 18:53	8270C		MS
Surrogate: Terphenyl-d14	88.9 %	33.3-136				11/03/22 18:53	8270C		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-33 (5-10')

2210207-38 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

S-06

GRO C6-C10*	549	50.0	31.2	mg/kg	5	10/25/22 04:35	8015B		MS
DRO >C10-C28*	4440	50.0	21.3	mg/kg	5	10/25/22 04:35	8015B		MS
EXT DRO >C28-C36	1110	50.0	21.3	mg/kg	5	10/25/22 04:35	8015B		MS
Surrogate: 1-Chlorooctane			204 %	45.3-161		10/25/22 04:35	8015B		MS
Surrogate: 1-Chlorooctadecane			252 %	46.3-178		10/25/22 04:35	8015B		MS

VOLATILES BY GC/MS

Benzene*	<0.250	0.250	0.0885	mg/kg	500	11/01/22 13:11	8260B		MS
Toluene*	<0.250	0.250	0.0670	mg/kg	500	11/01/22 13:11	8260B		MS
Ethylbenzene*	1.90	0.250	0.0405	mg/kg	500	11/01/22 13:11	8260B		MS
m+p - Xylene*	<0.500	0.500	0.186	mg/kg	500	11/01/22 13:11	8260B		MS
o-Xylene*	<0.250	0.250	0.0700	mg/kg	500	11/01/22 13:11	8260B		MS
Total Xylenes*	<0.750	0.750	0.256	mg/kg	500	11/01/22 13:11	8260B		MS
1,3,5-Trimethylbenzene	<0.250	0.250	0.0450	mg/kg	500	11/01/22 13:11	8260B		MS
1,2,4-Trimethylbenzene	<0.250	0.250	0.0650	mg/kg	500	11/01/22 13:11	8260B		MS
Naphthalene*	7.07	0.250	0.0500	mg/kg	500	11/01/22 13:11	8260B		MS
Surrogate: Dibromofluoromethane			99.7 %	84.6-114		11/01/22 13:11	8260B		MS
Surrogate: Toluene-d8			94.1 %	90.4-109		11/01/22 13:11	8260B		MS
Surrogate: 4-Bromofluorobenzene			117 %	82.5-117		11/01/22 13:11	8260B		MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	1.77	0.400	0.153	mg/kg	400	11/03/22 19:24	8270C		MS
2-Methylnaphthalene*	9.48	0.400	0.226	mg/kg	400	11/03/22 19:24	8270C		MS
1-Methylnaphthalene	7.41	0.400	0.161	mg/kg	400	11/03/22 19:24	8270C		MS
Acenaphthene*	<0.235	0.400	0.235	mg/kg	400	11/03/22 19:24	8270C		MS
Fluorene*	1.77	0.400	0.142	mg/kg	400	11/03/22 19:24	8270C		MS
Anthracene*	<0.172	0.400	0.172	mg/kg	400	11/03/22 19:24	8270C		MS
Fluoranthene*	<0.185	0.400	0.185	mg/kg	400	11/03/22 19:24	8270C		MS
Pyrene*	0.612	0.400	0.132	mg/kg	400	11/03/22 19:24	8270C		MS
Benzo[a]anthracene*	<0.230	0.400	0.230	mg/kg	400	11/03/22 19:24	8270C		MS

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Jeremy D Allen, Laboratory Director



Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-33 (5-10')

2210207-38 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Polynuclear Aromatic Compounds by GC/MS

Chrysene	0.897	0.400	0.172	mg/kg	400	11/03/22 19:24	8270C		MS
Benzo[b]flouranthene*	0.202	0.400	0.192	mg/kg	400	11/03/22 19:24	8270C	J	MS
Benzo[k]flouranthene*	<0.157	0.400	0.157	mg/kg	400	11/03/22 19:24	8270C		MS
Benzo[a]pyrene*	<0.182	0.400	0.182	mg/kg	400	11/03/22 19:24	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.168	0.400	0.168	mg/kg	400	11/03/22 19:24	8270C		MS
Dibenz[a,h]anthracene*	<0.186	0.400	0.186	mg/kg	400	11/03/22 19:24	8270C		MS
<i>Surrogate: Nitrobenzene-d5</i>			49.5 %	39.6-121		11/03/22 19:24	8270C		MS
<i>Surrogate: 2-Fluorobiphenyl</i>			73.0 %	39.8-134		11/03/22 19:24	8270C		MS
<i>Surrogate: Terphenyl-dl4</i>			95.6 %	33.3-136		11/03/22 19:24	8270C		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-34 (0-5')

2210207-39 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	10/25/22 01:11	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	10/25/22 01:11	8015B		MS
EXT DRO >C28-C36	21.8	10.0	4.26	mg/kg	1	10/25/22 01:11	8015B		MS
<i>Surrogate: 1-Chlorooctane</i>			127 %	45.3-161		10/25/22 01:11	8015B		MS
<i>Surrogate: 1-Chlorooctadecane</i>			157 %	46.3-178		10/25/22 01:11	8015B		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-34 (16'6''-18')

2210207-40 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	10/25/22 01:34	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	10/25/22 01:34	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	10/25/22 01:34	8015B		MS
Surrogate: 1-Chlorooctane			128 %	45.3-161		10/25/22 01:34	8015B		MS
Surrogate: 1-Chlorooctadecane			158 %	46.3-178		10/25/22 01:34	8015B		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-36 (0-5')

2210207-41 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	10/24/22 20:48	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	10/24/22 20:48	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	10/24/22 20:48	8015B		MS
Surrogate: 1-Chlorooctane			94.5 %	45.3-161		10/24/22 20:48	8015B		MS
Surrogate: 1-Chlorooctadecane			112 %	46.3-178		10/24/22 20:48	8015B		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-37 (5-10')

2210207-42 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	10/24/22 21:08	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	10/24/22 21:08	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	10/24/22 21:08	8015B		MS
Surrogate: 1-Chlorooctane			98.7 %	45.3-161		10/24/22 21:08	8015B		MS
Surrogate: 1-Chlorooctadecane			119 %	46.3-178		10/24/22 21:08	8015B		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-37 (20-22')

2210207-43 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	10/24/22 21:29	8015B		MS
DRO >C10-C28*	85.7	10.0	4.26	mg/kg	1	10/24/22 21:29	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	10/24/22 21:29	8015B		MS
Surrogate: 1-Chlorooctane			95.4 %	45.3-161		10/24/22 21:29	8015B		MS
Surrogate: 1-Chlorooctadecane			116 %	46.3-178		10/24/22 21:29	8015B		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-38 (0-5')

2210207-44 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	10/24/22 21:52	8015B		MS
DRO >C10-C28*	177	10.0	4.26	mg/kg	1	10/24/22 21:52	8015B		MS
EXT DRO >C28-C36	53.9	10.0	4.26	mg/kg	1	10/24/22 21:52	8015B		MS
Surrogate: 1-Chlorooctane			102 %	45.3-161		10/24/22 21:52	8015B		MS
Surrogate: 1-Chlorooctadecane			117 %	46.3-178		10/24/22 21:52	8015B		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-38 (20-22')

2210207-45 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

S-06

GRO C6-C10*	315	50.0	31.2	mg/kg	5	10/25/22 03:11	8015B		MS
DRO >C10-C28*	1710	50.0	21.3	mg/kg	5	10/25/22 03:11	8015B		MS
EXT DRO >C28-C36	165	50.0	21.3	mg/kg	5	10/25/22 03:11	8015B		MS
Surrogate: 1-Chlorooctane			136 %	45.3-161		10/25/22 03:11	8015B		MS
Surrogate: 1-Chlorooctadecane			192 %	46.3-178		10/25/22 03:11	8015B		MS

VOLATILES BY GC/MS

Benzene*	<0.250	0.250	0.0885	mg/kg	500	11/01/22 13:34	8260B		MS
Toluene*	<0.250	0.250	0.0670	mg/kg	500	11/01/22 13:34	8260B		MS
Ethylbenzene*	0.500	0.250	0.0405	mg/kg	500	11/01/22 13:34	8260B		MS
m+p - Xylene*	<0.500	0.500	0.186	mg/kg	500	11/01/22 13:34	8260B		MS
o-Xylene*	<0.250	0.250	0.0700	mg/kg	500	11/01/22 13:34	8260B		MS
Total Xylenes*	<0.750	0.750	0.256	mg/kg	500	11/01/22 13:34	8260B		MS
1,3,5-Trimethylbenzene	<0.250	0.250	0.0450	mg/kg	500	11/01/22 13:34	8260B		MS
1,2,4-Trimethylbenzene	0.490	0.250	0.0650	mg/kg	500	11/01/22 13:34	8260B		MS
Naphthalene*	2.88	0.250	0.0500	mg/kg	500	11/01/22 13:34	8260B		MS
Surrogate: Dibromofluoromethane			100 %	84.6-114		11/01/22 13:34	8260B		MS
Surrogate: Toluene-d8			92.6 %	90.4-109		11/01/22 13:34	8260B		MS
Surrogate: 4-Bromofluorobenzene			115 %	82.5-117		11/01/22 13:34	8260B		MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	1.08	0.400	0.153	mg/kg	400	11/03/22 19:55	8270C		MS
2-Methylnaphthalene*	6.64	0.400	0.226	mg/kg	400	11/03/22 19:55	8270C		MS
1-Methylnaphthalene	5.14	0.400	0.161	mg/kg	400	11/03/22 19:55	8270C		MS
Acenaphthene*	<0.235	0.400	0.235	mg/kg	400	11/03/22 19:55	8270C		MS
Fluorene*	1.45	0.400	0.142	mg/kg	400	11/03/22 19:55	8270C		MS
Anthracene*	<0.172	0.400	0.172	mg/kg	400	11/03/22 19:55	8270C		MS
Fluoranthene*	<0.185	0.400	0.185	mg/kg	400	11/03/22 19:55	8270C		MS
Pyrene*	0.455	0.400	0.132	mg/kg	400	11/03/22 19:55	8270C		MS
Benzo[a]anthracene*	<0.230	0.400	0.230	mg/kg	400	11/03/22 19:55	8270C		MS

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Jeremy D Allen, Laboratory Director



Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-38 (20-22')

2210207-45 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Polynuclear Aromatic Compounds by GC/MS

Chrysene	0.683	0.400	0.172	mg/kg	400	11/03/22 19:55	8270C		MS
Benzo[b]flouranthene*	<0.192	0.400	0.192	mg/kg	400	11/03/22 19:55	8270C		MS
Benzo[k]flouranthene*	<0.157	0.400	0.157	mg/kg	400	11/03/22 19:55	8270C		MS
Benzo[a]pyrene*	<0.182	0.400	0.182	mg/kg	400	11/03/22 19:55	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.168	0.400	0.168	mg/kg	400	11/03/22 19:55	8270C		MS
Dibenz[a,h]anthracene*	<0.186	0.400	0.186	mg/kg	400	11/03/22 19:55	8270C		MS
<i>Surrogate: Nitrobenzene-d5</i>			43.2 %	39.6-121		11/03/22 19:55	8270C		MS
<i>Surrogate: 2-Fluorobiphenyl</i>			74.4 %	39.8-134		11/03/22 19:55	8270C		MS
<i>Surrogate: Terphenyl-dl4</i>			105 %	33.3-136		11/03/22 19:55	8270C		MS

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-39 (1-5')

2210207-46 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	10/24/22 22:14	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	10/24/22 22:14	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	10/24/22 22:14	8015B		MS
Surrogate: 1-Chlorooctane			86.5 %	45.3-161		10/24/22 22:14	8015B		MS
Surrogate: 1-Chlorooctadecane			106 %	46.3-178		10/24/22 22:14	8015B		MS

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Jeremy D Allen, Laboratory Director

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-40 (19'6''-20')

2210207-47 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	393	50.0	31.2	mg/kg	5	10/25/22 03:31	8015B		MS
DRO >C10-C28*	1910	50.0	21.3	mg/kg	5	10/25/22 03:31	8015B		MS
EXT DRO >C28-C36	192	50.0	21.3	mg/kg	5	10/25/22 03:31	8015B		MS
Surrogate: 1-Chlorooctane			127 %	45.3-161		10/25/22 03:31	8015B		MS
Surrogate: 1-Chlorooctadecane			157 %	46.3-178		10/25/22 03:31	8015B		MS

VOLATILES BY GC/MS

Benzene*	<0.250	0.250	0.0885	mg/kg	500	11/01/22 21:44	8260B		MS
Toluene*	<0.250	0.250	0.0670	mg/kg	500	11/01/22 21:44	8260B		MS
Ethylbenzene*	<0.250	0.250	0.0405	mg/kg	500	11/01/22 21:44	8260B		MS
m+p - Xylene*	<0.500	0.500	0.186	mg/kg	500	11/01/22 21:44	8260B		MS
o-Xylene*	<0.250	0.250	0.0700	mg/kg	500	11/01/22 21:44	8260B		MS
Total Xylenes*	<0.750	0.750	0.256	mg/kg	500	11/01/22 21:44	8260B		MS
1,3,5-Trimethylbenzene	<0.250	0.250	0.0450	mg/kg	500	11/01/22 21:44	8260B		MS
1,2,4-Trimethylbenzene	<0.250	0.250	0.0650	mg/kg	500	11/01/22 21:44	8260B		MS
Naphthalene*	2.13	0.250	0.0500	mg/kg	500	11/01/22 21:44	8260B		MS
Surrogate: Dibromofluoromethane			101 %	84.6-114		11/01/22 21:44	8260B		MS
Surrogate: Toluene-d8			92.3 %	90.4-109		11/01/22 21:44	8260B		MS
Surrogate: 4-Bromofluorobenzene			113 %	82.5-117		11/01/22 21:44	8260B		MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	0.018	0.040	0.015	mg/kg	40	11/02/22 20:02	8270C	J	MS
2-Methylnaphthalene*	0.759	0.040	0.023	mg/kg	40	11/02/22 20:02	8270C		MS
1-Methylnaphthalene	0.693	0.040	0.016	mg/kg	40	11/02/22 20:02	8270C		MS
Acenaphthene*	<0.024	0.040	0.024	mg/kg	40	11/02/22 20:02	8270C		MS
Fluorene*	0.268	0.040	0.014	mg/kg	40	11/02/22 20:02	8270C		MS
Anthracene*	<0.017	0.040	0.017	mg/kg	40	11/02/22 20:02	8270C		MS
Fluoranthene*	0.041	0.040	0.019	mg/kg	40	11/02/22 20:02	8270C		MS
Pyrene*	0.126	0.040	0.013	mg/kg	40	11/02/22 20:02	8270C		MS
Benzo[a]anthracene*	<0.023	0.040	0.023	mg/kg	40	11/02/22 20:02	8270C		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-40 (19'6''-20')

2210207-47 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Polynuclear Aromatic Compounds by GC/MS

Chrysene	0.187	0.040	0.017	mg/kg	40	11/02/22 20:02	8270C		MS
Benzo[b]flouranthene*	0.043	0.040	0.019	mg/kg	40	11/02/22 20:02	8270C		MS
Benzo[k]flouranthene*	<0.016	0.040	0.016	mg/kg	40	11/02/22 20:02	8270C		MS
Benzo[a]pyrene*	<0.018	0.040	0.018	mg/kg	40	11/02/22 20:02	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.017	0.040	0.017	mg/kg	40	11/02/22 20:02	8270C		MS
Dibenz[a,h]anthracene*	<0.019	0.040	0.019	mg/kg	40	11/02/22 20:02	8270C		MS
<i>Surrogate: Nitrobenzene-d5</i>			28.2 %	39.6-121		11/02/22 20:02	8270C	S-BN	MS
<i>Surrogate: 2-Fluorobiphenyl</i>			70.3 %	39.8-134		11/02/22 20:02	8270C		MS
<i>Surrogate: Terphenyl-dl4</i>			72.1 %	33.3-136		11/02/22 20:02	8270C		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-42 (15-18')

2210207-48 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	10/24/22 22:35	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	10/24/22 22:35	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	10/24/22 22:35	8015B		MS
Surrogate: 1-Chlorooctane			104 %	45.3-161		10/24/22 22:35	8015B		MS
Surrogate: 1-Chlorooctadecane			124 %	46.3-178		10/24/22 22:35	8015B		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-43 (10-15')

2210207-49 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	10/24/22 22:56	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	10/24/22 22:56	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	10/24/22 22:56	8015B		MS
Surrogate: 1-Chlorooctane			109 %	45.3-161		10/24/22 22:56	8015B		MS
Surrogate: 1-Chlorooctadecane			131 %	46.3-178		10/24/22 22:56	8015B		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-44 (5-9'4")

2210207-50 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	10/24/22 23:17	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	10/24/22 23:17	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	10/24/22 23:17	8015B		MS
Surrogate: 1-Chlorooctane			102 %	45.3-161		10/24/22 23:17	8015B		MS
Surrogate: 1-Chlorooctadecane			121 %	46.3-178		10/24/22 23:17	8015B		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-44 (20-24')

2210207-51 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	257	10.0	6.25	mg/kg	1	10/24/22 23:37	8015B		MS
DRO >C10-C28*	1400	10.0	4.26	mg/kg	1	10/24/22 23:37	8015B		MS
EXT DRO >C28-C36	260	10.0	4.26	mg/kg	1	10/24/22 23:37	8015B		MS
Surrogate: 1-Chlorooctane			120 %	45.3-161		10/24/22 23:37	8015B		MS
Surrogate: 1-Chlorooctadecane			152 %	46.3-178		10/24/22 23:37	8015B		MS

VOLATILES BY GC/MS

Benzene*	<0.250	0.250	0.0885	mg/kg	500	11/01/22 22:06	8260B		MS
Toluene*	<0.250	0.250	0.0670	mg/kg	500	11/01/22 22:06	8260B		MS
Ethylbenzene*	<0.250	0.250	0.0405	mg/kg	500	11/01/22 22:06	8260B		MS
m+p - Xylene*	<0.500	0.500	0.186	mg/kg	500	11/01/22 22:06	8260B		MS
o-Xylene*	<0.250	0.250	0.0700	mg/kg	500	11/01/22 22:06	8260B		MS
Total Xylenes*	<0.750	0.750	0.256	mg/kg	500	11/01/22 22:06	8260B		MS
1,3,5-Trimethylbenzene	<0.250	0.250	0.0450	mg/kg	500	11/01/22 22:06	8260B		MS
1,2,4-Trimethylbenzene	<0.250	0.250	0.0650	mg/kg	500	11/01/22 22:06	8260B		MS
Naphthalene*	2.64	0.250	0.0500	mg/kg	500	11/01/22 22:06	8260B		MS
Surrogate: Dibromofluoromethane			101 %	84.6-114		11/01/22 22:06	8260B		MS
Surrogate: Toluene-d8			93.1 %	90.4-109		11/01/22 22:06	8260B		MS
Surrogate: 4-Bromofluorobenzene			111 %	82.5-117		11/01/22 22:06	8260B		MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	0.038	0.040	0.015	mg/kg	40	11/02/22 20:32	8270C	J	MS
2-Methylnaphthalene*	1.42	0.040	0.023	mg/kg	40	11/02/22 20:32	8270C		MS
1-Methylnaphthalene	1.15	0.040	0.016	mg/kg	40	11/02/22 20:32	8270C		MS
Acenaphthene*	<0.024	0.040	0.024	mg/kg	40	11/02/22 20:32	8270C		MS
Fluorene*	0.508	0.040	0.014	mg/kg	40	11/02/22 20:32	8270C		MS
Anthracene*	<0.017	0.040	0.017	mg/kg	40	11/02/22 20:32	8270C		MS
Fluoranthene*	0.049	0.040	0.019	mg/kg	40	11/02/22 20:32	8270C		MS
Pyrene*	0.157	0.040	0.013	mg/kg	40	11/02/22 20:32	8270C		MS
Benzo[a]anthracene*	<0.023	0.040	0.023	mg/kg	40	11/02/22 20:32	8270C		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-44 (20-24')

2210207-51 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Polynuclear Aromatic Compounds by GC/MS

Chrysene	0.220	0.040	0.017	mg/kg	40	11/02/22 20:32	8270C		MS
Benzo[b]flouranthene*	0.050	0.040	0.019	mg/kg	40	11/02/22 20:32	8270C		MS
Benzo[k]flouranthene*	<0.016	0.040	0.016	mg/kg	40	11/02/22 20:32	8270C		MS
Benzo[a]pyrene*	<0.018	0.040	0.018	mg/kg	40	11/02/22 20:32	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.017	0.040	0.017	mg/kg	40	11/02/22 20:32	8270C		MS
Dibenz[a,h]anthracene*	<0.019	0.040	0.019	mg/kg	40	11/02/22 20:32	8270C		MS
<i>Surrogate: Nitrobenzene-d5</i>			32.0 %	39.6-121		11/02/22 20:32	8270C	S-BN	MS
<i>Surrogate: 2-Fluorobiphenyl</i>			65.8 %	39.8-134		11/02/22 20:32	8270C		MS
<i>Surrogate: Terphenyl-dl4</i>			87.0 %	33.3-136		11/02/22 20:32	8270C		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-45 (15-20')

2210207-52 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	10/24/22 23:59	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	10/24/22 23:59	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	10/24/22 23:59	8015B		MS
Surrogate: 1-Chlorooctane			110 %	45.3-161		10/24/22 23:59	8015B		MS
Surrogate: 1-Chlorooctadecane			134 %	46.3-178		10/24/22 23:59	8015B		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-46 (0-5')

2210207-53 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	10/25/22 00:22	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	10/25/22 00:22	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	10/25/22 00:22	8015B		MS
Surrogate: 1-Chlorooctane			102 %	45.3-161		10/25/22 00:22	8015B		MS
Surrogate: 1-Chlorooctadecane			123 %	46.3-178		10/25/22 00:22	8015B		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-47 (18-19')

2210207-54 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	10/25/22 00:43	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	10/25/22 00:43	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	10/25/22 00:43	8015B		MS
Surrogate: 1-Chlorooctane			105 %	45.3-161		10/25/22 00:43	8015B		MS
Surrogate: 1-Chlorooctadecane			126 %	46.3-178		10/25/22 00:43	8015B		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-47 (19'6''-20')

2210207-55 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	10/25/22 01:03	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	10/25/22 01:03	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	10/25/22 01:03	8015B		MS
Surrogate: 1-Chlorooctane			88.9 %	45.3-161		10/25/22 01:03	8015B		MS
Surrogate: 1-Chlorooctadecane			107 %	46.3-178		10/25/22 01:03	8015B		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-49 (0-5')

2210207-56 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	10/25/22 01:23	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	10/25/22 01:23	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	10/25/22 01:23	8015B		MS
Surrogate: 1-Chlorooctane			105 %	45.3-161		10/25/22 01:23	8015B		MS
Surrogate: 1-Chlorooctadecane			123 %	46.3-178		10/25/22 01:23	8015B		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-49 (18'6''-19')

2210207-57 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	10/25/22 01:44	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	10/25/22 01:44	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	10/25/22 01:44	8015B		MS
Surrogate: 1-Chlorooctane			83.7 %	45.3-161		10/25/22 01:44	8015B		MS
Surrogate: 1-Chlorooctadecane			101 %	46.3-178		10/25/22 01:44	8015B		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-50 (15-19')

2210207-58 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	10/25/22 02:06	8015B		MS
DRO >C10-C28*	241	10.0	4.26	mg/kg	1	10/25/22 02:06	8015B		MS
EXT DRO >C28-C36	10.3	10.0	4.26	mg/kg	1	10/25/22 02:06	8015B		MS
<i>Surrogate: 1-Chlorooctane</i>			92.0 %	45.3-161		10/25/22 02:06	8015B		MS
<i>Surrogate: 1-Chlorooctadecane</i>			117 %	46.3-178		10/25/22 02:06	8015B		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-51 (5-10')

2210207-59 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	10/25/22 02:28	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	10/25/22 02:28	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	10/25/22 02:28	8015B		MS
Surrogate: 1-Chlorooctane			88.2 %	45.3-161		10/25/22 02:28	8015B		MS
Surrogate: 1-Chlorooctadecane			105 %	46.3-178		10/25/22 02:28	8015B		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-51 (15-16')

2210207-60 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	10/25/22 02:50	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	10/25/22 02:50	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	10/25/22 02:50	8015B		MS
Surrogate: 1-Chlorooctane			97.0 %	45.3-161		10/25/22 02:50	8015B		MS
Surrogate: 1-Chlorooctadecane			118 %	46.3-178		10/25/22 02:50	8015B		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-51 (16-19')

2210207-61 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

S-06

GRO C6-C10*	5240	50.0	31.2	mg/kg	5	10/25/22 09:43	8015B		MS
DRO >C10-C28*	4640	50.0	21.3	mg/kg	5	10/25/22 09:43	8015B		MS
EXT DRO >C28-C36	354	50.0	21.3	mg/kg	5	10/25/22 09:43	8015B		MS
Surrogate: 1-Chlorooctane			771 %	45.3-161		10/25/22 09:43	8015B		MS
Surrogate: 1-Chlorooctadecane			198 %	46.3-178		10/25/22 09:43	8015B		MS

VOLATILES BY GC/MS

Benzene*	<0.250	0.250	0.0885	mg/kg	500	11/01/22 22:29	8260B		MS
Toluene*	2.61	0.250	0.0670	mg/kg	500	11/01/22 22:29	8260B		MS
Ethylbenzene*	70.8	0.250	0.0405	mg/kg	500	11/01/22 22:29	8260B	E	MS
m+p - Xylene*	268	0.500	0.186	mg/kg	500	11/01/22 22:29	8260B	E	MS
o-Xylene*	218	0.250	0.0700	mg/kg	500	11/01/22 22:29	8260B	E	MS
Total Xylenes*	486	0.750	0.256	mg/kg	500	11/01/22 22:29	8260B	E	MS
1,3,5-Trimethylbenzene	411	0.250	0.0450	mg/kg	500	11/01/22 22:29	8260B	E	MS
1,2,4-Trimethylbenzene	397	0.250	0.0650	mg/kg	500	11/01/22 22:29	8260B	E	MS
Naphthalene*	232	0.250	0.0500	mg/kg	500	11/01/22 22:29	8260B	E	MS
Surrogate: Dibromofluoromethane			101 %	84.6-114		11/01/22 22:29	8260B		MS
Surrogate: Toluene-d8			98.9 %	90.4-109		11/01/22 22:29	8260B		MS
Surrogate: 4-Bromofluorobenzene			119 %	82.5-117		11/01/22 22:29	8260B	S-04	MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	16.7	0.800	0.306	mg/kg	800	11/08/22 11:37	8270C		MS
2-Methylnaphthalene*	53.2	0.800	0.452	mg/kg	800	11/08/22 11:37	8270C		MS
1-Methylnaphthalene	32.5	0.800	0.322	mg/kg	800	11/08/22 11:37	8270C		MS
Acenaphthene*	<0.470	0.800	0.470	mg/kg	800	11/08/22 11:37	8270C		MS
Fluorene*	2.06	0.800	0.285	mg/kg	800	11/08/22 11:37	8270C		MS
Anthracene*	<0.343	0.800	0.343	mg/kg	800	11/08/22 11:37	8270C		MS
Fluoranthene*	0.378	0.800	0.370	mg/kg	800	11/08/22 11:37	8270C	J	MS
Pyrene*	0.684	0.800	0.263	mg/kg	800	11/08/22 11:37	8270C	J	MS
Benzo[a]anthracene*	<0.461	0.800	0.461	mg/kg	800	11/08/22 11:37	8270C		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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BH-51 (16-19')

2210207-61 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Polynuclear Aromatic Compounds by GC/MS

Chrysene	0.814	0.800	0.344	mg/kg	800	11/08/22 11:37	8270C		MS
Benzo[b]flouranthene*	<0.383	0.800	0.383	mg/kg	800	11/08/22 11:37	8270C		MS
Benzo[k]flouranthene*	<0.314	0.800	0.314	mg/kg	800	11/08/22 11:37	8270C		MS
Benzo[a]pyrene*	<0.363	0.800	0.363	mg/kg	800	11/08/22 11:37	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.336	0.800	0.336	mg/kg	800	11/08/22 11:37	8270C		MS
Dibenz[a,h]anthracene*	<0.371	0.800	0.371	mg/kg	800	11/08/22 11:37	8270C		MS
<i>Surrogate: Nitrobenzene-d5</i>			41.5 %	39.6-121		11/08/22 11:37	8270C		MS
<i>Surrogate: 2-Fluorobiphenyl</i>			73.0 %	39.8-134		11/08/22 11:37	8270C		MS
<i>Surrogate: Terphenyl-dl4</i>			78.6 %	33.3-136		11/08/22 11:37	8270C		MS

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: MS Centralized Tank Battery	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	11/30/22 10:49

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B223040 - General Prep - Wet Chem

Blank (B223040-BLK1)	Prepared & Analyzed: 11/02/22									
Hexavalent Chromium	ND	0.250	mg/kg dry							
LCS (B223040-BS1)	Prepared & Analyzed: 11/02/22									
Hexavalent Chromium	2.34	0.250	mg/kg dry	2.50		93.8	85-115			

Saturated Paste Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B223106 - Paste Extract

Blank (B223106-BLK1)	Prepared: 11/08/22 Analyzed: 11/11/22									
Calcium	ND	0.100	mg/L							
Magnesium	ND	0.100	mg/L							
SAR	0.00		No Unit							
Sodium	ND	1.00	mg/L							
Reference (B223106-SRM1)	Prepared: 11/08/22 Analyzed: 11/11/22									
SAR	10.7		No Unit	10.5		102	90-110			

Batch B223108 - Paste Extract

Reference (B223108-SRM1)	Prepared & Analyzed: 11/08/22									
Conductivity	7910		umho/cm@2 5C	8340		94.9	90-110			

Batch B223109 - Paste Extract

Reference (B223109-SRM1)	Prepared & Analyzed: 11/08/22									
pH	6.81		pH Units	6.93		98.3	92-108			

Batch B223245 - Paste Extract

Blank (B223245-BLK1)	Prepared: 11/21/22 Analyzed: 11/23/22									
Calcium	ND	0.100	mg/L							
Magnesium	ND	0.100	mg/L							
SAR	0.00		No Unit							
Sodium	ND	1.00	mg/L							

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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**Saturated Paste Extraction - Quality Control
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B223245 - Paste Extract (Continued)

Reference (B223245-SRM1) Prepared: 11/21/22 Analyzed: 11/23/22

SAR	10.9		No Unit	10.5		103	90-110			
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Batch B223246 - Paste Extract

Reference (B223246-SRM1) Prepared & Analyzed: 11/21/22

pH	6.90		pH Units	6.93		99.6	92-108			
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Batch B223247 - Paste Extract

Reference (B223247-SRM1) Prepared & Analyzed: 11/21/22

Conductivity	8090		umho/cm@25C	8340		97.1	90-110			
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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: MS Centralized Tank Battery	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	11/30/22 10:49

Total Metals by ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B223056 - EPA 3050

Blank (B223056-BLK1)

Prepared: 11/03/22 Analyzed: 11/04/22

Barium	ND	5.00	mg/kg dry							
Cadmium	ND	5.00	mg/kg dry							
Chromium	ND	5.00	mg/kg dry							
Copper	ND	5.00	mg/kg dry							
Lead	ND	10.0	mg/kg dry							
Nickel	ND	5.00	mg/kg dry							
Selenium	ND	20.0	mg/kg dry							
Silver	ND	1.00	mg/kg dry							
Zinc	ND	10.0	mg/kg dry							

LCS (B223056-BS1)

Prepared: 11/03/22 Analyzed: 11/04/22

Barium	195	5.00	mg/kg dry	200		97.4	80-120			
Cadmium	181	5.00	mg/kg dry	200		90.4	80-120			
Chromium	194	5.00	mg/kg dry	200		97.2	80-120			
Copper	404	5.00	mg/kg dry	400		101	80-120			
Lead	187	10.0	mg/kg dry	200		93.4	80-120			
Nickel	186	5.00	mg/kg dry	200		92.8	80-120			
Selenium	777	20.0	mg/kg dry	800		97.1	80-120			
Silver	9.38	1.00	mg/kg dry	10.0		93.8	80-120			
Zinc	175	10.0	mg/kg dry	200		87.3	80-120			

LCS Dup (B223056-BSD1)

Prepared: 11/03/22 Analyzed: 11/04/22

Barium	194	5.00	mg/kg dry	200		96.9	80-120	0.545	20	
Cadmium	179	5.00	mg/kg dry	200		89.6	80-120	0.842	20	
Chromium	193	5.00	mg/kg dry	200		96.7	80-120	0.585	20	
Copper	404	5.00	mg/kg dry	400		101	80-120	0.0828	20	
Lead	184	10.0	mg/kg dry	200		92.0	80-120	1.52	20	
Nickel	183	5.00	mg/kg dry	200		91.6	80-120	1.31	20	
Selenium	762	20.0	mg/kg dry	800		95.3	80-120	1.92	20	
Silver	9.42	1.00	mg/kg dry	10.0		94.2	80-120	0.471	20	
Zinc	171	10.0	mg/kg dry	200		85.3	80-120	2.26	20	

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/30/22 10:49
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Total Metals by ICPMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B223057 - EPA 3050M

Blank (B223057-BLK1)

Prepared: 11/03/22 Analyzed: 11/07/22

Arsenic	ND	1.00	mg/kg dry							
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LCS (B223057-BS1)

Prepared: 11/03/22 Analyzed: 11/07/22

Arsenic	4.58	1.00	mg/kg dry	5.00		91.7	80-120			
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LCS Dup (B223057-BSD1)

Prepared: 11/03/22 Analyzed: 11/07/22

Arsenic	4.89	1.00	mg/kg dry	5.00		97.8	80-120	6.45	20	
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Hot Water Extractable - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B223110 - Hot Water Soluble Metals Extract

Blank (B223110-BLK1)

Prepared & Analyzed: 11/08/22

Boron	ND	1.20	mg/L							
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Cottonwood Consulting	Project: COGCC Table 915-1	Reported:
PO Box 1653	Project Name / Number: MS Centralized Tank Battery	11/30/22 10:49
Durango CO, 81302	Project Manager: Kyle Siesser	

Petroleum Hydrocarbons by GC FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2102404 - General Prep - Organics

Blank (2102404-BLK1)

Prepared & Analyzed: 10/24/22

Surrogate: 1-Chlorooctadecane	51.0		mg/kg	50.0		102	46.3-178			
Surrogate: 1-Chlorooctane	47.4		mg/kg	50.0		94.8	45.3-161			
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
GRO C6-C10	ND	10.0	mg/kg							

LCS (2102404-BS1)

Prepared & Analyzed: 10/24/22

Surrogate: 1-Chlorooctadecane	58.0		mg/kg	50.0		116	46.3-178			
Surrogate: 1-Chlorooctane	53.0		mg/kg	50.0		106	45.3-161			
DRO >C10-C28	187	10.0	mg/kg	200		93.4	74.9-127			
GRO C6-C10	199	10.0	mg/kg	200		99.4	76.8-124			
Total TPH C6-C28	386	10.0	mg/kg	400		96.4	77.5-124			

LCS Dup (2102404-BSD1)

Prepared & Analyzed: 10/24/22

Surrogate: 1-Chlorooctadecane	55.9		mg/kg	50.0		112	46.3-178			
Surrogate: 1-Chlorooctane	53.2		mg/kg	50.0		106	45.3-161			
DRO >C10-C28	180	10.0	mg/kg	200		90.2	74.9-127	3.49	18.6	
GRO C6-C10	190	10.0	mg/kg	200		95.2	76.8-124	4.37	17.2	
Total TPH C6-C28	371	10.0	mg/kg	400		92.7	77.5-124	3.94	17.6	

Batch 2102405 - General Prep - Organics

Blank (2102405-BLK1)

Prepared & Analyzed: 10/24/22

Surrogate: 1-Chlorooctadecane	63.0		mg/kg	50.0		126	46.3-178			
Surrogate: 1-Chlorooctane	54.6		mg/kg	50.0		109	45.3-161			
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
GRO C6-C10	ND	10.0	mg/kg							

LCS (2102405-BS1)

Prepared & Analyzed: 10/24/22

Surrogate: 1-Chlorooctadecane	76.1		mg/kg	50.0		152	46.3-178			
Surrogate: 1-Chlorooctane	61.6		mg/kg	50.0		123	45.3-161			
DRO >C10-C28	226	10.0	mg/kg	200		113	74.9-127			
GRO C6-C10	235	10.0	mg/kg	200		118	76.8-124			
Total TPH C6-C28	461	10.0	mg/kg	400		115	77.5-124			

LCS Dup (2102405-BSD1)

Prepared & Analyzed: 10/24/22

Surrogate: 1-Chlorooctadecane	71.6		mg/kg	50.0		143	46.3-178			
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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: MS Centralized Tank Battery	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	11/30/22 10:49

**Petroleum Hydrocarbons by GC FID - Quality Control
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2102405 - General Prep - Organics (Continued)

LCS Dup (2102405-BSD1) (Continued)

Prepared & Analyzed: 10/24/22

Surrogate: 1-Chlorooctane	58.8		mg/kg	50.0		118	45.3-161			
DRO >C10-C28	214	10.0	mg/kg	200		107	74.9-127	5.34	18.6	
GRO C6-C10	229	10.0	mg/kg	200		115	76.8-124	2.60	17.2	
Total TPH C6-C28	443	10.0	mg/kg	400		111	77.5-124	3.93	17.6	

Batch 2102406 - General Prep - Organics

Blank (2102406-BLK1)

Prepared & Analyzed: 10/24/22

Surrogate: 1-Chlorooctadecane	49.9		mg/kg	50.0		99.9	46.3-178			
Surrogate: 1-Chlorooctane	43.4		mg/kg	50.0		86.8	45.3-161			
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
GRO C6-C10	ND	10.0	mg/kg							

LCS (2102406-BS1)

Prepared & Analyzed: 10/24/22

Surrogate: 1-Chlorooctadecane	63.2		mg/kg	50.0		126	46.3-178			
Surrogate: 1-Chlorooctane	51.1		mg/kg	50.0		102	45.3-161			
DRO >C10-C28	221	10.0	mg/kg	200		110	74.9-127			
GRO C6-C10	244	10.0	mg/kg	200		122	76.8-124			
Total TPH C6-C28	465	10.0	mg/kg	400		116	77.5-124			

LCS Dup (2102406-BSD1)

Prepared & Analyzed: 10/24/22

Surrogate: 1-Chlorooctadecane	60.6		mg/kg	50.0		121	46.3-178			
Surrogate: 1-Chlorooctane	50.6		mg/kg	50.0		101	45.3-161			
DRO >C10-C28	195	10.0	mg/kg	200		97.5	74.9-127	12.3	18.6	
GRO C6-C10	225	10.0	mg/kg	200		113	76.8-124	8.23	17.2	
Total TPH C6-C28	420	10.0	mg/kg	400		105	77.5-124	10.2	17.6	

Batch 2102407 - General Prep - Organics

Blank (2102407-BLK1)

Prepared: 10/24/22 Analyzed: 10/25/22

Surrogate: 1-Chlorooctadecane	53.7		mg/kg	50.0		107	46.3-178			
Surrogate: 1-Chlorooctane	46.4		mg/kg	50.0		92.7	45.3-161			
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
GRO C6-C10	ND	10.0	mg/kg							

LCS (2102407-BS1)

Prepared: 10/24/22 Analyzed: 10/25/22

Surrogate: 1-Chlorooctadecane	62.4		mg/kg	50.0		125	46.3-178			
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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: MS Centralized Tank Battery	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	11/30/22 10:49

**Petroleum Hydrocarbons by GC FID - Quality Control
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2102407 - General Prep - Organics (Continued)

LCS (2102407-BS1) (Continued)

Prepared: 10/24/22 Analyzed: 10/25/22

<i>Surrogate: 1-Chlorooctane</i>	52.4		mg/kg	50.0		105	45.3-161			
DRO >C10-C28	221	10.0	mg/kg	200		110	74.9-127			
GRO C6-C10	236	10.0	mg/kg	200		118	76.8-124			
Total TPH C6-C28	457	10.0	mg/kg	400		114	77.5-124			

LCS Dup (2102407-BSD1)

Prepared: 10/24/22 Analyzed: 10/25/22

<i>Surrogate: 1-Chlorooctadecane</i>	62.8		mg/kg	50.0		126	46.3-178			
<i>Surrogate: 1-Chlorooctane</i>	51.7		mg/kg	50.0		103	45.3-161			
DRO >C10-C28	203	10.0	mg/kg	200		102	74.9-127	8.21	18.6	
GRO C6-C10	232	10.0	mg/kg	200		116	76.8-124	1.70	17.2	
Total TPH C6-C28	436	10.0	mg/kg	400		109	77.5-124	4.79	17.6	

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Cottonwood Consulting	Project: COGCC Table 915-1	Reported:
PO Box 1653	Project Name / Number: MS Centralized Tank Battery	11/30/22 10:49
Durango CO, 81302	Project Manager: Kyle Siesser	

VOLATILES BY GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2102726 - Volatiles

Blank (2102726-BLK1)

Prepared: 10/27/22 Analyzed: 10/31/22

1,2,4-Trimethylbenzene	ND	0.0250	mg/kg							
1,3,5-Trimethylbenzene	ND	0.0250	mg/kg							
<i>Surrogate: 4-Bromofluorobenzene</i>	1.27		mg/kg	1.25		102	82.5-117			
Benzene	ND	0.0250	mg/kg							
<i>Surrogate: Dibromofluoromethane</i>	1.21		mg/kg	1.25		96.7	84.6-114			
Ethylbenzene	ND	0.0250	mg/kg							
m+p - Xylene	ND	0.0500	mg/kg							
Naphthalene	ND	0.0250	mg/kg							
o-Xylene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	mg/kg							
<i>Surrogate: Toluene-d8</i>	1.19		mg/kg	1.25		95.1	90.4-109			
Total Xylenes	ND	0.0750	mg/kg							

LCS (2102726-BS1)

Prepared: 10/27/22 Analyzed: 10/31/22

1,2,4-Trimethylbenzene	0.503	0.0250	mg/kg	0.500		101	62.4-140			
1,3,5-Trimethylbenzene	0.494	0.0250	mg/kg	0.500		98.8	64.4-138			
<i>Surrogate: 4-Bromofluorobenzene</i>	1.30		mg/kg	1.25		104	82.5-117			
Benzene	0.455	0.0250	mg/kg	0.500		91.1	73-130			
<i>Surrogate: Dibromofluoromethane</i>	1.29		mg/kg	1.25		103	84.6-114			
Ethylbenzene	0.462	0.0250	mg/kg	0.500		92.5	75.4-127			
m+p - Xylene	0.914	0.0500	mg/kg	1.00		91.4	71.8-133			
Naphthalene	0.481	0.0250	mg/kg	0.500		96.2	28.7-158			
o-Xylene	0.482	0.0250	mg/kg	0.500		96.4	78.6-125			
Toluene	0.440	0.0250	mg/kg	0.500		87.9	79-122			
<i>Surrogate: Toluene-d8</i>	1.17		mg/kg	1.25		93.4	90.4-109			
Total Xylenes	1.40	0.0750	mg/kg	1.50		93.1	74.6-130			

LCS Dup (2102726-BS1)

Prepared: 10/27/22 Analyzed: 10/31/22

1,2,4-Trimethylbenzene	0.512	0.0250	mg/kg	0.500		102	62.4-140	1.65	38.2	
1,3,5-Trimethylbenzene	0.504	0.0250	mg/kg	0.500		101	64.4-138	1.92	39.1	
<i>Surrogate: 4-Bromofluorobenzene</i>	1.28		mg/kg	1.25		103	82.5-117			
Benzene	0.475	0.0250	mg/kg	0.500		95.1	73-130	4.27	17.1	
<i>Surrogate: Dibromofluoromethane</i>	1.26		mg/kg	1.25		101	84.6-114			
Ethylbenzene	0.479	0.0250	mg/kg	0.500		95.8	75.4-127	3.57	16.5	
m+p - Xylene	0.942	0.0500	mg/kg	1.00		94.2	71.8-133	3.05	19.1	
Naphthalene	0.446	0.0250	mg/kg	0.500		89.2	28.7-158	7.58	64	
o-Xylene	0.494	0.0250	mg/kg	0.500		98.7	78.6-125	2.38	13.2	
Toluene	0.460	0.0250	mg/kg	0.500		92.0	79-122	4.53	18.3	

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: MS Centralized Tank Battery	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	11/30/22 10:49

VOLATILES BY GC/MS - Quality Control
(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2102726 - Volatiles (Continued)

LCS Dup (2102726-BSD1) (Continued)

Prepared: 10/27/22 Analyzed: 10/31/22

Surrogate: Toluene-d8	1.19		mg/kg	1.25		95.1	90.4-109			
Total Xylenes	1.44	0.0750	mg/kg	1.50		95.7	74.6-130	2.82	16.5	

Batch 2102727 - Volatiles

Blank (2102727-BLK1)

Prepared: 10/27/22 Analyzed: 11/01/22

1,2,4-Trimethylbenzene	ND	0.0250	mg/kg							
1,3,5-Trimethylbenzene	ND	0.0250	mg/kg							
Surrogate: 4-Bromofluorobenzene	1.30		mg/kg	1.25		104	82.5-117			
Benzene	ND	0.0250	mg/kg							
Surrogate: Dibromofluoromethane	1.26		mg/kg	1.25		101	84.6-114			
Ethylbenzene	ND	0.0250	mg/kg							
m+p - Xylene	ND	0.0500	mg/kg							
Naphthalene	ND	0.0250	mg/kg							
o-Xylene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	mg/kg							
Surrogate: Toluene-d8	1.17		mg/kg	1.25		93.7	90.4-109			
Total Xylenes	ND	0.0750	mg/kg							

LCS (2102727-BS1)

Prepared: 10/27/22 Analyzed: 11/01/22

1,2,4-Trimethylbenzene	0.525	0.0250	mg/kg	0.500		105	62.4-140			
1,3,5-Trimethylbenzene	0.523	0.0250	mg/kg	0.500		105	64.4-138			
Surrogate: 4-Bromofluorobenzene	1.29		mg/kg	1.25		104	82.5-117			
Benzene	0.490	0.0250	mg/kg	0.500		98.1	73-130			
Surrogate: Dibromofluoromethane	1.26		mg/kg	1.25		101	84.6-114			
Ethylbenzene	0.489	0.0250	mg/kg	0.500		97.9	75.4-127			
m+p - Xylene	0.957	0.0500	mg/kg	1.00		95.7	71.8-133			
Naphthalene	0.456	0.0250	mg/kg	0.500		91.2	28.7-158			
o-Xylene	0.512	0.0250	mg/kg	0.500		102	78.6-125			
Toluene	0.470	0.0250	mg/kg	0.500		94.0	79-122			
Surrogate: Toluene-d8	1.18		mg/kg	1.25		94.8	90.4-109			
Total Xylenes	1.47	0.0750	mg/kg	1.50		97.9	74.6-130			

LCS Dup (2102727-BSD1)

Prepared: 10/27/22 Analyzed: 11/01/22

1,2,4-Trimethylbenzene	0.498	0.0250	mg/kg	0.500		99.7	62.4-140	5.29	38.2	
1,3,5-Trimethylbenzene	0.496	0.0250	mg/kg	0.500		99.2	64.4-138	5.19	39.1	
Surrogate: 4-Bromofluorobenzene	1.29		mg/kg	1.25		103	82.5-117			
Benzene	0.473	0.0250	mg/kg	0.500		94.5	73-130	3.71	17.1	

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: MS Centralized Tank Battery	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	11/30/22 10:49

**VOLATILES BY GC/MS - Quality Control
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2102727 - Volatiles (Continued)

LCS Dup (2102727-BSD1) (Continued)

Prepared: 10/27/22 Analyzed: 11/01/22

<i>Surrogate: Dibromofluoromethane</i>	1.23		mg/kg	1.25		98.2	84.6-114			
Ethylbenzene	0.472	0.0250	mg/kg	0.500		94.3	75.4-127	3.71	16.5	
m+p - Xylene	0.929	0.0500	mg/kg	1.00		92.9	71.8-133	2.89	19.1	
Naphthalene	0.408	0.0250	mg/kg	0.500		81.6	28.7-158	11.1	64	
o-Xylene	0.492	0.0250	mg/kg	0.500		98.5	78.6-125	3.98	13.2	
Toluene	0.457	0.0250	mg/kg	0.500		91.4	79-122	2.72	18.3	
<i>Surrogate: Toluene-d8</i>	1.19		mg/kg	1.25		95.1	90.4-109			
Total Xylenes	1.42	0.0750	mg/kg	1.50		94.8	74.6-130	3.27	16.5	

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: MS Centralized Tank Battery	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	11/30/22 10:49

Polynuclear Aromatic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2102541 - SW846-3510

Blank (2102541-BLK1)

Prepared: 10/25/22 Analyzed: 11/02/22

1-Methylnaphthalene	ND	0.040	mg/kg							
<i>Surrogate: 2-Fluorobiphenyl</i>	1.07		mg/kg	2.00		53.4	39.8-134			
2-Methylnaphthalene	ND	0.040	mg/kg							
Acenaphthene	ND	0.040	mg/kg							
Anthracene	ND	0.040	mg/kg							
Benzo[a]anthracene	0.023	0.040	mg/kg							J
Benzo[a]pyrene	ND	0.040	mg/kg							
Benzo[b]flouranthene	0.019	0.040	mg/kg							J
Benzo[k]flouranthene	ND	0.040	mg/kg							
Chrysene	0.022	0.040	mg/kg							J
Dibenz[a,h]anthracene	ND	0.040	mg/kg							
Fluoranthene	ND	0.040	mg/kg							
Fluorene	ND	0.040	mg/kg							
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg							
Naphthalene	ND	0.040	mg/kg							
<i>Surrogate: Nitrobenzene-d5</i>	0.802		mg/kg	2.00		40.1	39.6-121			
Pyrene	0.017	0.040	mg/kg							J
<i>Surrogate: Terphenyl-d14</i>	1.32		mg/kg	2.00		66.1	33.3-136			

LCS (2102541-BS1)

Prepared: 10/25/22 Analyzed: 11/02/22

1-Methylnaphthalene	0.309	0.040	mg/kg	0.400		77.3	57.6-108			
<i>Surrogate: 2-Fluorobiphenyl</i>	1.38		mg/kg	2.00		69.0	39.8-134			
2-Methylnaphthalene	0.306	0.040	mg/kg	0.400		76.6	59-106			
Acenaphthene	0.348	0.040	mg/kg	0.400		87.0	60.9-105			
Acenaphthylene	0.325	0.040	mg/kg	0.400		81.1	57.4-107			
Anthracene	0.332	0.040	mg/kg	0.400		82.9	60.8-105			
Benzo[a]anthracene	0.311	0.040	mg/kg	0.400		77.9	56.1-121			
Benzo[a]pyrene	0.258	0.040	mg/kg	0.400		64.4	56.7-115			
Benzo[b]flouranthene	0.302	0.040	mg/kg	0.400		75.6	45.4-128			
Benzo[g,h,i]perylene	0.315	0.040	mg/kg	0.400		78.9	56.5-107			
Benzo[k]flouranthene	0.306	0.040	mg/kg	0.400		76.6	49.6-119			
Carbazole	0.368	0.040	mg/kg	0.400		91.9	59.7-107			
Chrysene	0.317	0.040	mg/kg	0.400		79.3	12.2-190			
Dibenz[a,h]anthracene	0.304	0.040	mg/kg	0.400		76.0	59.1-111			
Fluoranthene	0.334	0.040	mg/kg	0.400		83.4	60.6-111			
Fluorene	0.316	0.040	mg/kg	0.400		78.9	59.3-108			
Indeno[1,2,3-cd]pyrene	0.298	0.040	mg/kg	0.400		74.4	53.4-116			
Naphthalene	0.315	0.040	mg/kg	0.400		78.9	56.5-106			

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Cottonwood Consulting	Project: COGCC Table 915-1	Reported:
PO Box 1653	Project Name / Number: MS Centralized Tank Battery	11/30/22 10:49
Durango CO, 81302	Project Manager: Kyle Siesser	

**Polynuclear Aromatic Compounds by GC/MS - Quality Control
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2102541 - SW846-3510 (Continued)

LCS (2102541-BS1) (Continued)

Prepared: 10/25/22 Analyzed: 11/02/22

<i>Surrogate: Nitrobenzene-d5</i>	1.07		mg/kg	2.00		53.7	39.6-121			
Phenanthrene	0.339	0.040	mg/kg	0.400		84.7	59.9-107			
Pyrene	0.356	0.040	mg/kg	0.400		88.9	51.5-122			
<i>Surrogate: Terphenyl-dl4</i>	1.68		mg/kg	2.00		84.1	33.3-136			

LCS Dup (2102541-BSD1)

Prepared: 10/25/22 Analyzed: 11/02/22

1-Methylnaphthalene	0.302	0.040	mg/kg	0.400		75.6	57.6-108	2.32	6.22	
<i>Surrogate: 2-Fluorobiphenyl</i>	1.44		mg/kg	2.00		71.8	39.8-134			
2-Methylnaphthalene	0.304	0.040	mg/kg	0.400		76.1	59-106	0.589	6.23	
Acenaphthene	0.347	0.040	mg/kg	0.400		86.6	60.9-105	0.466	8.18	
Acenaphthylene	0.331	0.040	mg/kg	0.400		82.7	57.4-107	1.90	5	
Anthracene	0.329	0.040	mg/kg	0.400		82.3	60.8-105	0.784	3.68	
Benzo[a]anthracene	0.317	0.040	mg/kg	0.400		79.2	56.1-121	1.67	9.01	
Benzo[a]pyrene	0.226	0.040	mg/kg	0.400		56.5	56.7-115	13.1	4.92	BS2, QR-04
Benzo[b]flouranthene	0.289	0.040	mg/kg	0.400		72.3	45.4-128	4.34	7.63	
Benzo[g,h,i]perylene	0.313	0.040	mg/kg	0.400		78.1	56.5-107	0.898	12.5	
Benzo[k]flouranthene	0.306	0.040	mg/kg	0.400		76.4	49.6-119	0.157	10.6	
Carbazole	0.357	0.040	mg/kg	0.400		89.2	59.7-107	3.01	8.65	
Chrysene	0.316	0.040	mg/kg	0.400		78.9	12.2-190	0.537	21.8	
Dibenz[a,h]anthracene	0.314	0.040	mg/kg	0.400		78.4	59.1-111	3.11	11.6	
Fluoranthene	0.318	0.040	mg/kg	0.400		79.6	60.6-111	4.74	7.54	
Fluorene	0.308	0.040	mg/kg	0.400		76.9	59.3-108	2.63	5.49	
Indeno[1,2,3-cd]pyrene	0.308	0.040	mg/kg	0.400		77.1	53.4-116	3.58	22.3	
Naphthalene	0.315	0.040	mg/kg	0.400		78.8	56.5-106	0.130	4.56	
<i>Surrogate: Nitrobenzene-d5</i>	1.07		mg/kg	2.00		53.5	39.6-121			
Phenanthrene	0.336	0.040	mg/kg	0.400		84.0	59.9-107	0.765	5.21	
Pyrene	0.367	0.040	mg/kg	0.400		91.9	51.5-122	3.26	10.6	
<i>Surrogate: Terphenyl-dl4</i>	1.73		mg/kg	2.00		86.6	33.3-136			

Batch 2102542 - SW846-3510

Blank (2102542-BLK1)

Prepared: 10/25/22 Analyzed: 11/04/22

1-Methylnaphthalene	ND	0.040	mg/kg							
<i>Surrogate: 2-Fluorobiphenyl</i>	1.33		mg/kg	2.00		66.6	39.8-134			
2-Methylnaphthalene	ND	0.040	mg/kg							
Acenaphthene	ND	0.040	mg/kg							
Anthracene	ND	0.040	mg/kg							
Benzo[a]anthracene	ND	0.040	mg/kg							
Benzo[a]pyrene	ND	0.040	mg/kg							

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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Cottonwood Consulting	Project: COGCC Table 915-1	Reported:
PO Box 1653	Project Name / Number: MS Centralized Tank Battery	11/30/22 10:49
Durango CO, 81302	Project Manager: Kyle Siesser	

**Polynuclear Aromatic Compounds by GC/MS - Quality Control
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2102542 - SW846-3510 (Continued)

Blank (2102542-BLK1) (Continued)

Prepared: 10/25/22 Analyzed: 11/04/22

Benzo[b]flouranthene	ND	0.040	mg/kg							
Benzo[k]flouranthene	ND	0.040	mg/kg							
Chrysene	ND	0.040	mg/kg							
Dibenz[a,h]anthracene	ND	0.040	mg/kg							
Fluoranthene	ND	0.040	mg/kg							
Fluorene	ND	0.040	mg/kg							
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg							
Naphthalene	ND	0.040	mg/kg							
<i>Surrogate: Nitrobenzene-d5</i>	0.929		mg/kg	2.00		46.5	39.6-121			
Pyrene	ND	0.040	mg/kg							
<i>Surrogate: Terphenyl-dl4</i>	1.55		mg/kg	2.00		77.6	33.3-136			

LCS (2102542-BS1)

Prepared: 10/25/22 Analyzed: 11/04/22

1-Methylnaphthalene	0.308	0.040	mg/kg	0.400		76.9	57.6-108			
<i>Surrogate: 2-Fluorobiphenyl</i>	1.32		mg/kg	2.00		65.8	39.8-134			
2-Methylnaphthalene	0.305	0.040	mg/kg	0.400		76.2	59-106			
Acenaphthene	0.332	0.040	mg/kg	0.400		83.0	60.9-105			
Acenaphthylene	0.309	0.040	mg/kg	0.400		77.1	57.4-107			
Anthracene	0.307	0.040	mg/kg	0.400		76.9	60.8-105			
Benzo[a]anthracene	0.290	0.040	mg/kg	0.400		72.5	56.1-121			
Benzo[a]pyrene	0.301	0.040	mg/kg	0.400		75.2	56.7-115			
Benzo[b]flouranthene	0.140	0.040	mg/kg	0.400		35.0	45.4-128			BS2
Benzo[g,h,i]perylene	0.318	0.040	mg/kg	0.400		79.4	56.5-107			
Benzo[k]flouranthene	0.270	0.040	mg/kg	0.400		67.4	49.6-119			
Carbazole	0.338	0.040	mg/kg	0.400		84.6	59.7-107			
Chrysene	0.298	0.040	mg/kg	0.400		74.5	12.2-190			
Dibenz[a,h]anthracene	0.305	0.040	mg/kg	0.400		76.3	59.1-111			
Fluoranthene	0.306	0.040	mg/kg	0.400		76.4	60.6-111			
Fluorene	0.297	0.040	mg/kg	0.400		74.2	59.3-108			
Indeno[1,2,3-cd]pyrene	0.319	0.040	mg/kg	0.400		79.8	53.4-116			
Naphthalene	0.303	0.040	mg/kg	0.400		75.8	56.5-106			
<i>Surrogate: Nitrobenzene-d5</i>	0.986		mg/kg	2.00		49.3	39.6-121			
Phenanthrene	0.324	0.040	mg/kg	0.400		81.0	59.9-107			
Pyrene	0.326	0.040	mg/kg	0.400		81.6	51.5-122			
<i>Surrogate: Terphenyl-dl4</i>	1.48		mg/kg	2.00		73.9	33.3-136			

LCS Dup (2102542-BSD1)

Prepared: 10/25/22 Analyzed: 11/04/22

1-Methylnaphthalene	0.310	0.040	mg/kg	0.400		77.5	57.6-108	0.777	6.22	
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Jeremy D Allen, Laboratory Director

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: MS Centralized Tank Battery	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	11/30/22 10:49

**Polynuclear Aromatic Compounds by GC/MS - Quality Control
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2102542 - SW846-3510 (Continued)

LCS Dup (2102542-BSD1) (Continued)

Prepared: 10/25/22 Analyzed: 11/04/22

<i>Surrogate: 2-Fluorobiphenyl</i>	1.31		mg/kg	2.00		65.4	39.8-134			
2-Methylnaphthalene	0.304	0.040	mg/kg	0.400		76.0	59-106	0.269	6.23	
Acenaphthene	0.322	0.040	mg/kg	0.400		80.6	60.9-105	2.97	8.18	
Acenaphthylene	0.311	0.040	mg/kg	0.400		77.6	57.4-107	0.636	5	
Anthracene	0.322	0.040	mg/kg	0.400		80.5	60.8-105	4.60	3.68	QR-04
Benzo[a]anthracene	0.298	0.040	mg/kg	0.400		74.4	56.1-121	2.63	9.01	
Benzo[a]pyrene	0.300	0.040	mg/kg	0.400		75.0	56.7-115	0.213	4.92	
Benzo[b]flouranthene	0.284	0.040	mg/kg	0.400		71.1	45.4-128	68.1	7.63	QR-04
Benzo[g,h,i]perylene	0.329	0.040	mg/kg	0.400		82.3	56.5-107	3.53	12.5	
Benzo[k]flouranthene	0.287	0.040	mg/kg	0.400		71.8	49.6-119	6.27	10.6	
Carbazole	0.347	0.040	mg/kg	0.400		86.8	59.7-107	2.66	8.65	
Chrysene	0.291	0.040	mg/kg	0.400		72.7	12.2-190	2.41	21.8	
Dibenz[a,h]anthracene	0.318	0.040	mg/kg	0.400		79.6	59.1-111	4.21	11.6	
Fluoranthene	0.308	0.040	mg/kg	0.400		77.1	60.6-111	0.922	7.54	
Fluorene	0.298	0.040	mg/kg	0.400		74.5	59.3-108	0.407	5.49	
Indeno[1,2,3-cd]pyrene	0.327	0.040	mg/kg	0.400		81.8	53.4-116	2.40	22.3	
Naphthalene	0.304	0.040	mg/kg	0.400		75.9	56.5-106	0.0626	4.56	
<i>Surrogate: Nitrobenzene-d5</i>	0.981		mg/kg	2.00		49.1	39.6-121			
Phenanthrene	0.329	0.040	mg/kg	0.400		82.2	59.9-107	1.44	5.21	
Pyrene	0.338	0.040	mg/kg	0.400		84.6	51.5-122	3.59	10.6	
<i>Surrogate: Terphenyl-d14</i>	1.52		mg/kg	2.00		75.8	33.3-136			

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: MS Centralized Tank Battery	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	11/30/22 10:49

Notes and Definitions

- S-BN Base/Neutral surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two base/neutral surrogates.
- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QR-04 The RPD for the BS/BSD was outside of historical limits.
- M5 Sample was chosen for matrix spike. Spike recovery did not meet laboratory acceptance criteria, possible matrix interference in sample.
- J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
- E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate (CLP E-flag).
- BS2 Blank spike recovery below laboratory acceptance criteria. Results for analyte potentially biased low.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
*Results reported on as received basis unless designated as dry.
- RPD Relative Percent Difference
- LCS Laboratory Control Sample (Blank Spike)
- RL Report Limit
- MDL Method Detection Limit

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 75 Suttle St Durango, CO 81303

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 7

Company Name: Cottonwood Consulting LLC

Project Manager: Kyle Slessor

Address: PO Box 1653

City: Durango

Phone #: (970) 764-7356

Additional Report To:

Project Name: MS Centralized Tank Battery

Project Number:

Sampler Name (Print): Kyle Slessor / Kelsey O'Brien

FOR LAB USE ONLY

Lab I.D. Sample Name or Location

Lab I.D.	Sample Name or Location	Collected		Matrix (check one)						# of containers	ANALYSIS REQUEST
		Date	Time	GROUNDWATER	SURFACEWATER	WASTEWATER	PRODUCEDWATER	SOIL	OTHER :		
2210-207	BH-2 (0-5')	10/18/22	1135					X		3	
	BH-3 (0-5')	10/18/22	1200					X		3	
	BH-4 (0-4')	10/18/22	1235					X		3	
	BH-5 (0-5')	10/18/22	1245					X		3	
	BH-6 (10-15')	10/18/22	1330					X		3	
	BH-8 (18'6"-19')	10/18/22	1430					X		3	
	BH-9 (1-5'6")	10/18/22	1500					X		3	
	BH-9 (15-17')	10/18/22	1510					X		3	
	BH-9 (17-17'6")	10/18/22	1520					X		1	
	BH-10 (0-5')	10/18/22	1540					X		3	

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Relinquished By: Kyle Slessor

Date: 10/18/22

Received By: Kelsey O'Brien

Time: 1500

Relinquished By: Kyle Slessor

Date: 10/18/22

Received By: Kelsey O'Brien

Time: 1500

Relinquished By: Kyle Slessor

Date: 10/18/22

Received By: Kelsey O'Brien

Time: 1500

Delivered By: (Circle One)

UPS - FedEx - Kangaroo - Other:

Temperature at receipt: 5.2°C on ice

CHECKED BY: LLC

ADDITIONAL REMARKS:

Report to State? (Circle)

Yes

No

*Rush (5 day) TPH first. If TPH exceeds 500 mg/kg, then run remainder of COCC Table 915.

* GAL cannot always accept verbal changes. Please fax or email written change requests. Chain of Custody must be signed in "Relinquished By:" as an acceptance of services and all applicable charges.

#2 Laser



(970) 247-4220
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service@greenanalytical.com or dzu@felt@greenanalytical.com
 75 Suttle St Durango, CO 81303

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 7

Company Name: Cottonwood Consulting LLC

Project Manager: Kyle Slessor

Address: PO Box 1653

City: Durango

Phone #: (970) 764-7356

State: CO Zip: 81302

Email: kslessor@cottonwoodconsulting.com

Additional Report To:

Project Name: MS Centralized Tank Battery

Project Number:

Sampler Name (Print): Kyle Slessor / Kelsey O'Brien

FOR LAB USE ONLY

ANALYSIS REQUEST

P.O. #: Bill to (if different):

Company: COCC

Attn: James Hix

Address: 1120 Lincoln St. Ste 801

City: Denver

State: CO Zip: 80203

Phone #: 303 894 200 X 5181

Fax or Email: james.hix@state.co.us

Lab I.D.	Sample Name or Location	Collected		Matrix (check one)						# of containers	
		Date	Time	GROUNDWATER	SURFACEWATER	WASTEWATER	PRODUCEDWATER	SOIL	OTHER :		
2210-207	BH-10 (5-10')	10/18/22	1550					X		3	X
	BH-11 (0-5')	10/18/22	1620					X		3	X
	BH-12 (0-5')	10/19/22	0830					X		3	X
	BH-13 (0-5')	10/19/22	0845					X		3	X
	BH-14 (0-2'6")	10/19/22	0910					X		2	X
	BH-14 (16'8"-17')	10/19/22	0930					X		3	X
	BH-15 (5-9'4")	10/19/22	1000					X		3	X
	BH-16 (2'6"-4'6")	10/19/22	1040					X		3	X
	BH-18 (0-1')	10/19/22	1050					X		3	X
	BH-18 (13'6"-14'6")	10/19/22	1050					X		3	X

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Relinquished By: *Wm. Hix* Date: 10/21/22 Received By: *Darlene Sublett* Time: 1506

Relinquished By: _____ Date: _____ Received By: _____ Time: _____

Relinquished By: _____ Date: _____ Received By: _____ Time: _____

Relinquished By: _____ Date: _____ Received By: _____ Time: _____

Relinquished By: _____ Date: _____ Received By: _____ Time: _____

Delivered By: (Circle One) _____ Temperature at receipt: _____ CHECKED BY: _____

Sampler: UPS - FedEx - Kangaroo - Other: _____

ADDITIONAL REMARKS: *Rush (5 day) TPH first, IF TPH exceeds 500 mg/Kg then run remainder of COCC Table 915.

† GAL cannot always accept verbal changes. Please fax or email written change requests. Chain of Custody must be signed in "Relinquished By:" as an acceptance of services and all applicable charges. #2 last yr



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 75 Suttle St Durango, CO 81303

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

5 of 7

Company Name: Cottonwood Consulting LLC

Project Manager: Kyle Siesser

Address: PO Box 1653

City: Durango

State: CO

Zip: 81302

Phone #: (970) 764-7356

Email: ksiesser@cottonwoodconsulting.com

Additional Report To:

Project Name: MS Centralized Tank Battery

Project Number:

Sampler Name (Print): Kyle Siesser / Kelsey O'Brien

FOR LAB USE ONLY

Lab I.D. 2210-207

Sample Name or Location	Collected		Matrix (check one)										# of containers				
	Date	Time	GROUNDWATER	SURFACEWATER	WASTEWATER	PRODUCEDWATER	SOIL	OTHER :	No preservation (general)	HNO ³	HCl	H ₂ SO ₄	Other:	Other:			
BH-36 (0-5')	10/20/22	1010					X		3						X		
BH-37 (5-10')	10/20/22	1025					X		3						X		
BH-37 (20-22')	10/20/22	1035					X		3						X		
BH-38 (0-5')	10/20/22	1050					X		3						X		
BH-38 (20-22')	10/20/22	1055					X		3						X		
BH-39 (1-5')	10/20/22	1115					X		3						X		
BH-40 (19'6"-20')	10/20/22	1135					X		2						X		
BH-42 (15-18')	10/20/22	1300					X		3						X		
BH-43 (10-15')	10/20/22	1315					X		3						X		
BH-44 (5-9'4")	10/20/22	1340					X		3						X		

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Relinquished By: Mphki

Date: 10/20/22

Received By: Julie G. Goff

Time: 1500

Report to State? (Circle) No

Relinquished By: [Blank]

Date: [Blank]

Received By: [Blank]

Time: [Blank]

Report to State? (Circle) [Blank]

Relinquished By: [Blank]

Date: [Blank]

Received By: [Blank]

Time: [Blank]

Report to State? (Circle) [Blank]

Relinquished By: [Blank]

Date: [Blank]

Received By: [Blank]

Time: [Blank]

Report to State? (Circle) [Blank]

Relinquished By: [Blank]

Date: [Blank]

Received By: [Blank]

Time: [Blank]

Report to State? (Circle) [Blank]

Relinquished By: [Blank]

Date: [Blank]

Received By: [Blank]

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Report to State? (Circle) [Blank]

Relinquished By: [Blank]

Date: [Blank]

Received By: [Blank]

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Report to State? (Circle) [Blank]

Relinquished By: [Blank]

Date: [Blank]

Received By: [Blank]

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Report to State? (Circle) [Blank]

Relinquished By: [Blank]

Date: [Blank]

Received By: [Blank]

Time: [Blank]

Report to State? (Circle) [Blank]

Relinquished By: [Blank]

Date: [Blank]

Received By: [Blank]

Time: [Blank]

Report to State? (Circle) [Blank]

Relinquished By: [Blank]

Date: [Blank]

Received By: [Blank]

Time: [Blank]

Report to State? (Circle) [Blank]

Relinquished By: [Blank]

Date: [Blank]

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Report to State? (Circle) [Blank]

Relinquished By: [Blank]

Date: [Blank]

Received By: [Blank]

Time: [Blank]

Report to State? (Circle) [Blank]

Relinquished By: [Blank]

Date: [Blank]

Received By: [Blank]

Time: [Blank]

Report to State? (Circle) [Blank]

Temperature at receipt: 5.20 C in UG

CHECKED BY: [Signature]

ADDITIONAL REMARKS: * Rush (5-day) TPH first. IF TPH exceeds 500 mg/kg then run remainder of COGCC Table 915.

* GAL cannot always accept verbal changes. Please fax or email written change requests. Chain of Custody must be signed in "Relinquished By:" as an acceptance of services and all applicable charges.

#2 Laser



(970) 247-4220
 Fax: (970) 247-4227

service@greenanalytical.com or dzufelt@greenanalytical.com
 75 Suttle St Durango, CO 81303

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

7 of 7

Company Name: Cottonwood Consulting LLC

Project Manager: Kyle Stesser

Address: PO Box 1653

City: Durango

Phone #: (970) 764-7356

Additional Report To:

Project Name: MS Centralized Tank Battery

Project Number:

Sampler Name (Print): Kyle Stesser / Kelsey O'Brien

FOR LAB USE ONLY

Lab I.D.

Sample Name or Location

2210-207
 -61

BH-51 (16-19')

Sample Name or Location	Collected		Matrix (check one)		# of containers		ANALYSIS REQUEST
	Date	Time					
BH-51 (16-19')	10/29/22	1625	GROUNDWATER		No preservation (general)	3	X
			SURFACEWATER		HNO ₃		
			WASTEWATER		HCl		
			PRODUCEDWATER		H ₂ SO ₄		
			SOIL	X	Other:		
			OTHER :		Other:		

Bill to (if different):

P.O. #:

Company: COCC

Attn: James Hix

Address: 1120 Lincoln St Ste 801

City: Denver

State: CO Zip: 80203

Phone #: 303 894 2100 x 5181

Fax or Email: james.hix@coffco.co.us

PLEASE NOTE: GAL's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by GAL within 30 days after completion. In no event shall GAL be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by GAL, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:

Kyle Stesser

Date: 10/29/22
 Time: 1500

Received By:

Dalvinie Zupitt

Date: _____
 Time: _____

Received By: _____

Relinquished By:

Date: _____
 Time: _____

Received By: _____

Delivered By: (Circle One)

Sample: UPS - FedEx - Kangaroo - Other:

Temperature at receipt:

CHECKED BY:

5:20c on 03

ADDITIONAL REMARKS:

Report to State? (Circle)

Yes

No

Rush (5 day) TPH first.
 If TPH exceeds 500 mg/kg
 then run remainder of
 COCC Table 915.

* Chain of Custody must be signed in "Relinquished By:" as an acceptance of services and all applicable charges.

#2 Laser



75 Suttle Street
Durango, CO 81303
970.247.4220 Phone
970.247.4227 Fax
www.greenanalytical.com

22 November 2022

Kyle Siesser
Cottonwood Consulting
PO Box 1653
Durango, CO 81302
RE: COGCC Table 915-1

Enclosed are the results of analyses for samples received by the laboratory on 10/26/22 14:30. The data to follow was performed, in whole or in part, by Green Analytical Laboratories. Any data that was performed by a subcontract laboratory is included within the GAL report, or with an additional report attached.

If you need any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads 'Jeremy D. Allen'.

Jeremy D Allen
Laboratory Director

All accredited analytes contained in this report are denoted by an asterisk (*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at <http://greenanalytical.com/certifications/>

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water. TNI Certificate Number: T104704514-22-15

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8. TNI Certificate Number: T104704398-22-15



Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: COGCC Table 915-1
Project Name / Number: MS CTB
Project Manager: Kyle Siesser

Reported:
11/22/22 15:19

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
BH-52 (0-5')	2210227-01	Solid	10/24/22 13:20	10/26/22 14:30	
BH-53 (0-5')	2210227-02	Solid	10/24/22 13:30	10/26/22 14:30	
BH-53 (6.5-7.5')	2210227-03	Solid	10/24/22 13:35	10/26/22 14:30	
BH-54 (0-5')	2210227-04	Solid	10/24/22 13:40	10/26/22 14:30	
BH-55 (15-19')	2210227-05	Solid	10/25/22 15:30	10/26/22 14:30	
BH-56 (15-15.5')	2210227-06	Solid	10/25/22 15:40	10/26/22 14:30	

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS CTB Project Manager: Kyle Siesser	Reported: 11/22/22 15:19
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BH-52 (0-5')

2210227-01 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

Hexavalent Chromium	<0.250	0.250	0.128	mg/kg dry	25	11/09/22 15:43	3060A/3500-Cr B		HTB
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Saturated Paste Extraction

Calcium	36.9	0.100	0.058	mg/L	1	11/11/22 13:41	EPA200.7		AES
Conductivity	450			umho/cm@25 C	1	11/10/22 16:22	ASA#9 10-3.3		AWG
Magnesium	6.69	0.100	0.065	mg/L	1	11/11/22 13:41	EPA200.7		AES
pH	7.28			pH Units	1	11/10/22 16:21	ASA#9 10-3.2		AWG
SAR	2.18			No Unit	1	11/11/22 13:41	Calculation		AES
Sodium	54.8	1.00	0.079	mg/L	1	11/11/22 13:41	EPA200.7		AES

Total Metals by ICP

Barium	237	5.00	1.10	mg/kg dry	100	11/14/22 16:02	6010B		AES
Cadmium	<5.00	5.00	2.54	mg/kg dry	100	11/14/22 16:02	6010B		AES
Chromium	21.7	5.00	1.58	mg/kg dry	100	11/14/22 16:02	6010B		AES
Copper	27.7	5.00	2.83	mg/kg dry	100	11/14/22 16:02	6010B		AES
Lead	<10.0	10.0	4.02	mg/kg dry	100	11/14/22 16:02	6010B		AES
Nickel	13.0	5.00	2.41	mg/kg dry	100	11/14/22 16:02	6010B		AES
Selenium	<20.0	20.0	5.39	mg/kg dry	100	11/14/22 16:02	6010B		AES
Silver	<1.00	1.00	0.518	mg/kg dry	100	11/14/22 16:02	6010B		AES
Zinc	271	10.0	2.18	mg/kg dry	100	11/14/22 16:02	6010B		AES

Total Metals by ICPMS

Arsenic	2.01	1.00	0.158	mg/kg dry	1000	11/11/22 13:49	6020A		AES
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Hot Water Extractable

Boron	<1.20	1.20	0.568	mg/L	4	11/18/22 12:05	EPA200.7		AES
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	10/31/22 09:06	8015B		MS
DRO >C10-C28*	534	10.0	4.26	mg/kg	1	10/31/22 09:06	8015B		MS
EXT DRO >C28-C36	372	10.0	4.26	mg/kg	1	10/31/22 09:06	8015B		MS

Surrogate: 1-Chlorooctane			109 %	45.3-161		10/31/22 09:06	8015B		MS
Surrogate: 1-Chlorooctadecane			174 %	46.3-178		10/31/22 09:06	8015B		MS

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Jeremy D Allen, Laboratory Director

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Cottonwood Consulting	Project: COGCC Table 915-1	Reported:
PO Box 1653	Project Name / Number: MS CTB	11/22/22 15:19
Durango CO, 81302	Project Manager: Kyle Siesser	

BH-52 (0-5')

2210227-01 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

VOLATILES BY GC/MS

Benzene*	<0.0250	0.0250	0.00885	mg/kg	50	11/03/22 07:49	8260B		MS
Toluene*	<0.0250	0.0250	0.00670	mg/kg	50	11/03/22 07:49	8260B		MS
Ethylbenzene*	<0.0250	0.0250	0.00405	mg/kg	50	11/03/22 07:49	8260B		MS
m+p - Xylene*	<0.0500	0.0500	0.0186	mg/kg	50	11/03/22 07:49	8260B		MS
o-Xylene*	<0.0250	0.0250	0.00700	mg/kg	50	11/03/22 07:49	8260B		MS
Total Xylenes*	<0.0750	0.0750	0.0256	mg/kg	50	11/03/22 07:49	8260B		MS
1,3,5-Trimethylbenzene	<0.0250	0.0250	0.00450	mg/kg	50	11/03/22 07:49	8260B		MS
1,2,4-Trimethylbenzene	<0.0250	0.0250	0.00650	mg/kg	50	11/03/22 07:49	8260B		MS
Naphthalene*	<0.0250	0.0250	0.00500	mg/kg	50	11/03/22 07:49	8260B		MS
Surrogate: Dibromofluoromethane			95.2 %	84.6-114		11/03/22 07:49	8260B		MS
Surrogate: Toluene-d8			97.8 %	90.4-109		11/03/22 07:49	8260B		MS
Surrogate: 4-Bromofluorobenzene			104 %	82.5-117		11/03/22 07:49	8260B		MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.015	0.040	0.015	mg/kg	40	11/04/22 18:27	8270C		MS
2-Methylnaphthalene*	<0.023	0.040	0.023	mg/kg	40	11/04/22 18:27	8270C		MS
1-Methylnaphthalene	<0.016	0.040	0.016	mg/kg	40	11/04/22 18:27	8270C		MS
Acenaphthene*	<0.024	0.040	0.024	mg/kg	40	11/04/22 18:27	8270C		MS
Fluorene*	<0.014	0.040	0.014	mg/kg	40	11/04/22 18:27	8270C		MS
Anthracene*	<0.017	0.040	0.017	mg/kg	40	11/04/22 18:27	8270C		MS
Fluoranthene*	<0.019	0.040	0.019	mg/kg	40	11/04/22 18:27	8270C		MS
Pyrene*	0.032	0.040	0.013	mg/kg	40	11/04/22 18:27	8270C	J	MS
Benzo[a]anthracene*	<0.023	0.040	0.023	mg/kg	40	11/04/22 18:27	8270C		MS
Chrysene	0.092	0.040	0.017	mg/kg	40	11/04/22 18:27	8270C		MS
Benzo[b]fluoranthene*	<0.019	0.040	0.019	mg/kg	40	11/04/22 18:27	8270C		MS
Benzo[k]fluoranthene*	<0.016	0.040	0.016	mg/kg	40	11/04/22 18:27	8270C		MS
Benzo[a]pyrene*	0.184	0.040	0.018	mg/kg	40	11/04/22 18:27	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.017	0.040	0.017	mg/kg	40	11/04/22 18:27	8270C		MS
Dibenz[a,h]anthracene*	<0.019	0.040	0.019	mg/kg	40	11/04/22 18:27	8270C		MS
Surrogate: Nitrobenzene-d5			52.5 %	39.6-121		11/04/22 18:27	8270C		MS

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Jeremy D Allen, Laboratory Director

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: MS CTB	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	11/22/22 15:19

BH-52 (0-5')

2210227-01 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Polynuclear Aromatic Compounds by GC/MS

Surrogate: 2-Fluorobiphenyl	74.4 %	39.8-134				11/04/22 18:27	8270C		MS
Surrogate: Terphenyl-d14	90.0 %	33.3-136				11/04/22 18:27	8270C		MS

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS CTB Project Manager: Kyle Siesser	Reported: 11/22/22 15:19
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BH-53 (0-5')

2210227-02 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	10/31/22 09:29	8015B		MS
DRO >C10-C28*	95.1	10.0	4.26	mg/kg	1	10/31/22 09:29	8015B		MS
EXT DRO >C28-C36	93.6	10.0	4.26	mg/kg	1	10/31/22 09:29	8015B		MS
Surrogate: 1-Chlorooctane			108 %	45.3-161		10/31/22 09:29	8015B		MS
Surrogate: 1-Chlorooctadecane			140 %	46.3-178		10/31/22 09:29	8015B		MS

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: MS CTB	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	11/22/22 15:19

BH-53 (6.5-7.5')

2210227-03 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

S-06

GRO C6-C10*	219	100	62.5	mg/kg	10	10/28/22 17:15	8015B		MS
DRO >C10-C28*	3650	100	42.6	mg/kg	10	10/28/22 17:15	8015B		MS
EXT DRO >C28-C36	639	100	42.6	mg/kg	10	10/28/22 17:15	8015B		MS
Surrogate: 1-Chlorooctane			135 %	45.3-161		10/28/22 17:15	8015B		MS
Surrogate: 1-Chlorooctadecane			308 %	46.3-178		10/28/22 17:15	8015B		MS

VOLATILES BY GC/MS

Benzene*	<0.0250	0.0250	0.00885	mg/kg	50	11/03/22 08:11	8260B		MS
Toluene*	<0.0250	0.0250	0.00670	mg/kg	50	11/03/22 08:11	8260B		MS
Ethylbenzene*	0.0356	0.0250	0.00405	mg/kg	50	11/03/22 08:11	8260B		MS
m+p - Xylene*	<0.0500	0.0500	0.0186	mg/kg	50	11/03/22 08:11	8260B		MS
o-Xylene*	0.0351	0.0250	0.00700	mg/kg	50	11/03/22 08:11	8260B		MS
Total Xylenes*	<0.0750	0.0750	0.0256	mg/kg	50	11/03/22 08:11	8260B		MS
1,3,5-Trimethylbenzene	<0.0250	0.0250	0.00450	mg/kg	50	11/03/22 08:11	8260B		MS
1,2,4-Trimethylbenzene	<0.0250	0.0250	0.00650	mg/kg	50	11/03/22 08:11	8260B		MS
Naphthalene*	0.246	0.0250	0.00500	mg/kg	50	11/03/22 08:11	8260B		MS
Surrogate: Dibromofluoromethane			97.7 %	84.6-114		11/03/22 08:11	8260B		MS
Surrogate: Toluene-d8			104 %	90.4-109		11/03/22 08:11	8260B		MS
Surrogate: 4-Bromofluorobenzene			215 %	82.5-117		11/03/22 08:11	8260B	S-04	MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.015	0.040	0.015	mg/kg	40	11/04/22 18:58	8270C		MS
2-Methylnaphthalene*	2.13	0.040	0.023	mg/kg	40	11/04/22 18:58	8270C		MS
1-Methylnaphthalene	2.20	0.040	0.016	mg/kg	40	11/04/22 18:58	8270C		MS
Acenaphthene*	<0.024	0.040	0.024	mg/kg	40	11/04/22 18:58	8270C		MS
Fluorene*	1.16	0.040	0.014	mg/kg	40	11/04/22 18:58	8270C		MS
Anthracene*	2.12	0.040	0.017	mg/kg	40	11/04/22 18:58	8270C		MS
Fluoranthene*	<0.019	0.040	0.019	mg/kg	40	11/04/22 18:58	8270C		MS
Pyrene*	<0.013	0.040	0.013	mg/kg	40	11/04/22 18:58	8270C		MS
Benzo[a]anthracene*	<0.023	0.040	0.023	mg/kg	40	11/04/22 18:58	8270C		MS

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: MS CTB	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	11/22/22 15:19

BH-53 (6.5-7.5')

2210227-03 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Polynuclear Aromatic Compounds by GC/MS

Chrysene	<0.017	0.040	0.017	mg/kg	40	11/04/22 18:58	8270C		MS
Benzo[b]flouranthene*	<0.019	0.040	0.019	mg/kg	40	11/04/22 18:58	8270C		MS
Benzo[k]flouranthene*	<0.016	0.040	0.016	mg/kg	40	11/04/22 18:58	8270C		MS
Benzo[a]pyrene*	<0.018	0.040	0.018	mg/kg	40	11/04/22 18:58	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.017	0.040	0.017	mg/kg	40	11/04/22 18:58	8270C		MS
Dibenz[a,h]anthracene*	<0.019	0.040	0.019	mg/kg	40	11/04/22 18:58	8270C		MS
Surrogate: Nitrobenzene-d5			80.0 %	39.6-121		11/04/22 18:58	8270C		MS
Surrogate: 2-Fluorobiphenyl			62.0 %	39.8-134		11/04/22 18:58	8270C		MS
Surrogate: Terphenyl-d14			146 %	33.3-136		11/04/22 18:58	8270C	S-04	MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS CTB Project Manager: Kyle Siesser	Reported: 11/22/22 15:19
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BH-54 (0-5')

2210227-04 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	11/01/22 00:28	8015B		MS
DRO >C10-C28*	16.7	10.0	4.26	mg/kg	1	11/01/22 00:28	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	11/01/22 00:28	8015B		MS
Surrogate: 1-Chlorooctane			91.3 %	45.3-161		11/01/22 00:28	8015B		MS
Surrogate: 1-Chlorooctadecane			112 %	46.3-178		11/01/22 00:28	8015B		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS CTB Project Manager: Kyle Siesser	Reported: 11/22/22 15:19
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BH-55 (15-19')

2210227-05 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	11/01/22 00:47	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	11/01/22 00:47	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	11/01/22 00:47	8015B		MS
Surrogate: 1-Chlorooctane			88.6 %	45.3-161		11/01/22 00:47	8015B		MS
Surrogate: 1-Chlorooctadecane			108 %	46.3-178		11/01/22 00:47	8015B		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS CTB Project Manager: Kyle Siesser	Reported: 11/22/22 15:19
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BH-56 (15-15.5')

2210227-06 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	11/01/22 01:06	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	11/01/22 01:06	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	11/01/22 01:06	8015B		MS
<i>Surrogate: 1-Chlorooctane</i>			84.3 %	45.3-161		11/01/22 01:06	8015B		MS
<i>Surrogate: 1-Chlorooctadecane</i>			102 %	46.3-178		11/01/22 01:06	8015B		MS

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: MS CTB	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	11/22/22 15:19

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B223128 - General Prep - Wet Chem										
Blank (B223128-BLK1) Prepared & Analyzed: 11/09/22										
Hexavalent Chromium	ND	0.250	mg/kg dry							
LCS (B223128-BS1) Prepared & Analyzed: 11/09/22										
Hexavalent Chromium	2.55	0.250	mg/kg dry	2.50		102	85-115			

Saturated Paste Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B223137 - Paste Extract										
Blank (B223137-BLK1) Prepared: 11/10/22 Analyzed: 11/11/22										
Calcium	ND	0.100	mg/L							
Magnesium	ND	0.100	mg/L							
SAR	0.00		No Unit							
Sodium	ND	1.00	mg/L							
Reference (B223137-SRM1) Prepared: 11/10/22 Analyzed: 11/11/22										
SAR	10.6		No Unit	10.5		101	90-110			
Batch B223138 - Paste Extract										
Reference (B223138-SRM1) Prepared & Analyzed: 11/10/22										
pH	7.03		pH Units	6.93		101	92-108			
Batch B223139 - Paste Extract										
Reference (B223139-SRM1) Prepared & Analyzed: 11/10/22										
Conductivity	8010		umho/cm@25C	8340		96.1	90-110			

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: MS CTB	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	11/22/22 15:19

Total Metals by ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B223104 - EPA 3050

Blank (B223104-BLK1)

Prepared: 11/08/22 Analyzed: 11/14/22

Barium	ND	5.00	mg/kg dry							
Cadmium	ND	5.00	mg/kg dry							
Chromium	ND	5.00	mg/kg dry							
Copper	ND	5.00	mg/kg dry							
Lead	ND	10.0	mg/kg dry							
Nickel	ND	5.00	mg/kg dry							
Selenium	ND	20.0	mg/kg dry							
Silver	ND	1.00	mg/kg dry							
Zinc	ND	10.0	mg/kg dry							

LCS (B223104-BS1)

Prepared: 11/08/22 Analyzed: 11/14/22

Barium	196	5.00	mg/kg dry	200		97.8	80-120			
Cadmium	182	5.00	mg/kg dry	200		91.0	80-120			
Chromium	198	5.00	mg/kg dry	200		98.8	80-120			
Copper	414	5.00	mg/kg dry	400		104	80-120			
Lead	186	10.0	mg/kg dry	200		93.2	80-120			
Nickel	189	5.00	mg/kg dry	200		94.4	80-120			
Selenium	806	20.0	mg/kg dry	800		101	80-120			
Silver	9.59	1.00	mg/kg dry	10.0		95.9	80-120			
Zinc	177	10.0	mg/kg dry	200		88.3	80-120			

LCS Dup (B223104-BSD1)

Prepared: 11/08/22 Analyzed: 11/14/22

Barium	193	5.00	mg/kg dry	200		96.4	80-120	1.47	20	
Cadmium	180	5.00	mg/kg dry	200		89.9	80-120	1.17	20	
Chromium	195	5.00	mg/kg dry	200		97.4	80-120	1.42	20	
Copper	405	5.00	mg/kg dry	400		101	80-120	2.33	20	
Lead	187	10.0	mg/kg dry	200		93.3	80-120	0.165	20	
Nickel	190	5.00	mg/kg dry	200		94.8	80-120	0.503	20	
Selenium	791	20.0	mg/kg dry	800		98.9	80-120	1.87	20	
Silver	9.77	1.00	mg/kg dry	10.0		97.7	80-120	1.79	20	
Zinc	177	10.0	mg/kg dry	200		88.3	80-120	0.0789	20	

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS CTB Project Manager: Kyle Siesser	Reported: 11/22/22 15:19
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Total Metals by ICPMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B223146 - EPA 3050M

Blank (B223146-BLK1)

Prepared: 11/10/22 Analyzed: 11/11/22

Arsenic	ND	0.100	mg/kg dry							
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LCS (B223146-BS1)

Prepared: 11/10/22 Analyzed: 11/11/22

Arsenic	4.70	0.100	mg/kg dry	5.00		94.1	80-120			
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LCS Dup (B223146-BSD1)

Prepared: 11/10/22 Analyzed: 11/11/22

Arsenic	4.70	0.100	mg/kg dry	5.00		94.0	80-120	0.0645	20	
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Hot Water Extractable - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B223152 - Hot Water Soluble Metals Extract

Blank (B223152-BLK1)

Prepared: 11/11/22 Analyzed: 11/18/22

Boron	ND	1.20	mg/L							
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Cottonwood Consulting	Project: COGCC Table 915-1	Reported:
PO Box 1653	Project Name / Number: MS CTB	11/22/22 15:19
Durango CO, 81302	Project Manager: Kyle Siesser	

Petroleum Hydrocarbons by GC FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2102767 - General Prep - Organics

Blank (2102767-BLK1)

Prepared: 10/27/22 Analyzed: 10/28/22

Surrogate: 1-Chlorooctadecane	56.0		mg/kg	50.0		112	46.3-178			
Surrogate: 1-Chlorooctane	46.2		mg/kg	50.0		92.5	45.3-161			
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
GRO C6-C10	ND	10.0	mg/kg							

LCS (2102767-BS1)

Prepared: 10/27/22 Analyzed: 10/28/22

Surrogate: 1-Chlorooctadecane	61.3		mg/kg	50.0		123	46.3-178			
Surrogate: 1-Chlorooctane	49.5		mg/kg	50.0		99.0	45.3-161			
DRO >C10-C28	220	10.0	mg/kg	200		110	74.9-127			
GRO C6-C10	217	10.0	mg/kg	200		108	76.8-124			
Total TPH C6-C28	437	10.0	mg/kg	400		109	77.5-124			

LCS Dup (2102767-BSD1)

Prepared: 10/27/22 Analyzed: 10/28/22

Surrogate: 1-Chlorooctadecane	62.9		mg/kg	50.0		126	46.3-178			
Surrogate: 1-Chlorooctane	51.2		mg/kg	50.0		102	45.3-161			
DRO >C10-C28	221	10.0	mg/kg	200		110	74.9-127	0.330	18.6	
GRO C6-C10	214	10.0	mg/kg	200		107	76.8-124	1.30	17.2	
Total TPH C6-C28	435	10.0	mg/kg	400		109	77.5-124	0.474	17.6	

Batch 2102835 - General Prep - Organics

Blank (2102835-BLK1)

Prepared: 10/28/22 Analyzed: 10/31/22

Surrogate: 1-Chlorooctadecane	58.6		mg/kg	50.0		117	46.3-178			
Surrogate: 1-Chlorooctane	48.5		mg/kg	50.0		96.9	45.3-161			
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
GRO C6-C10	ND	10.0	mg/kg							

LCS (2102835-BS1)

Prepared: 10/28/22 Analyzed: 10/31/22

Surrogate: 1-Chlorooctadecane	68.4		mg/kg	50.0		137	46.3-178			
Surrogate: 1-Chlorooctane	52.9		mg/kg	50.0		106	45.3-161			
DRO >C10-C28	211	10.0	mg/kg	200		105	74.9-127			
GRO C6-C10	214	10.0	mg/kg	200		107	76.8-124			
Total TPH C6-C28	424	10.0	mg/kg	400		106	77.5-124			

LCS Dup (2102835-BSD1)

Prepared: 10/28/22 Analyzed: 10/31/22

Surrogate: 1-Chlorooctadecane	71.9		mg/kg	50.0		144	46.3-178			
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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: MS CTB	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	11/22/22 15:19

**Petroleum Hydrocarbons by GC FID - Quality Control
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2102835 - General Prep - Organics (Continued)

LCS Dup (2102835-BSD1) (Continued)

Prepared: 10/28/22 Analyzed: 10/31/22

<i>Surrogate: 1-Chlorooctane</i>	55.4		mg/kg	50.0		111	45.3-161			
DRO >C10-C28	195	10.0	mg/kg	200		97.5	74.9-127	7.82	18.6	
GRO C6-C10	214	10.0	mg/kg	200		107	76.8-124	0.0725	17.2	
Total TPH C6-C28	409	10.0	mg/kg	400		102	77.5-124	3.77	17.6	

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: MS CTB	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	11/22/22 15:19

VOLATILES BY GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2103110 - Volatiles

Blank (2103110-BLK1)

Prepared: 10/31/22 Analyzed: 11/03/22

1,2,4-Trimethylbenzene	ND	0.0250	mg/kg							
1,3,5-Trimethylbenzene	ND	0.0250	mg/kg							
<i>Surrogate: 4-Bromofluorobenzene</i>	1.33		mg/kg	1.25		106	82.5-117			
Benzene	ND	0.0250	mg/kg							
<i>Surrogate: Dibromofluoromethane</i>	1.25		mg/kg	1.25		100	84.6-114			
Ethylbenzene	ND	0.0250	mg/kg							
m+p - Xylene	ND	0.0500	mg/kg							
Naphthalene	ND	0.0250	mg/kg							
o-Xylene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	mg/kg							
<i>Surrogate: Toluene-d8</i>	1.21		mg/kg	1.25		96.7	90.4-109			
Total Xylenes	ND	0.0750	mg/kg							

LCS (2103110-BS1)

Prepared: 10/31/22 Analyzed: 11/02/22

1,2,4-Trimethylbenzene	0.544	0.0250	mg/kg	0.500		109	62.4-140			
1,3,5-Trimethylbenzene	0.560	0.0250	mg/kg	0.500		112	64.4-138			
<i>Surrogate: 4-Bromofluorobenzene</i>	1.27		mg/kg	1.25		101	82.5-117			
Benzene	0.487	0.0250	mg/kg	0.500		97.5	73-130			
<i>Surrogate: Dibromofluoromethane</i>	1.23		mg/kg	1.25		98.7	84.6-114			
Ethylbenzene	0.507	0.0250	mg/kg	0.500		101	75.4-127			
m+p - Xylene	1.04	0.0500	mg/kg	1.00		104	71.8-133			
Naphthalene	0.497	0.0250	mg/kg	0.500		99.5	28.7-158			
o-Xylene	0.489	0.0250	mg/kg	0.500		97.7	78.6-125			
Toluene	0.480	0.0250	mg/kg	0.500		96.0	79-122			
<i>Surrogate: Toluene-d8</i>	1.23		mg/kg	1.25		98.6	90.4-109			
Total Xylenes	1.53	0.0750	mg/kg	1.50		102	74.6-130			

LCS Dup (2103110-BSD1)

Prepared: 10/31/22 Analyzed: 11/03/22

1,2,4-Trimethylbenzene	0.507	0.0250	mg/kg	0.500		101	62.4-140	7.04	38.2	
1,3,5-Trimethylbenzene	0.521	0.0250	mg/kg	0.500		104	64.4-138	7.30	39.1	
<i>Surrogate: 4-Bromofluorobenzene</i>	1.30		mg/kg	1.25		104	82.5-117			
Benzene	0.483	0.0250	mg/kg	0.500		96.6	73-130	0.847	17.1	
<i>Surrogate: Dibromofluoromethane</i>	1.23		mg/kg	1.25		98.0	84.6-114			
Ethylbenzene	0.497	0.0250	mg/kg	0.500		99.5	75.4-127	1.93	16.5	
m+p - Xylene	1.01	0.0500	mg/kg	1.00		101	71.8-133	2.52	19.1	
Naphthalene	0.425	0.0250	mg/kg	0.500		85.0	28.7-158	15.6	64	
o-Xylene	0.481	0.0250	mg/kg	0.500		96.2	78.6-125	1.63	13.2	
Toluene	0.468	0.0250	mg/kg	0.500		93.6	79-122	2.48	18.3	

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: MS CTB	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	11/22/22 15:19

**VOLATILES BY GC/MS - Quality Control
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2103110 - Volatiles (Continued)

LCS Dup (2103110-BSD1) (Continued)

Prepared: 10/31/22 Analyzed: 11/03/22

Surrogate: Toluene-d8	1.23		mg/kg	1.25		98.8	90.4-109			
Total Xylenes	1.50	0.0750	mg/kg	1.50		99.7	74.6-130	2.24	16.5	

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Jeremy D Allen, Laboratory Director

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: MS CTB	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	11/22/22 15:19

Polynuclear Aromatic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2102542 - SW846-3510

Blank (2102542-BLK1)

Prepared: 10/25/22 Analyzed: 11/04/22

1-Methylnaphthalene	ND	0.040	mg/kg							
<i>Surrogate: 2-Fluorobiphenyl</i>	1.33		mg/kg	2.00		66.6	39.8-134			
2-Methylnaphthalene	ND	0.040	mg/kg							
Acenaphthene	ND	0.040	mg/kg							
Anthracene	ND	0.040	mg/kg							
Benzo[a]anthracene	ND	0.040	mg/kg							
Benzo[a]pyrene	ND	0.040	mg/kg							
Benzo[b]flouranthene	ND	0.040	mg/kg							
Benzo[k]flouranthene	ND	0.040	mg/kg							
Chrysene	ND	0.040	mg/kg							
Dibenz[a,h]anthracene	ND	0.040	mg/kg							
Fluoranthene	ND	0.040	mg/kg							
Fluorene	ND	0.040	mg/kg							
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg							
Naphthalene	ND	0.040	mg/kg							
<i>Surrogate: Nitrobenzene-d5</i>	0.929		mg/kg	2.00		46.5	39.6-121			
Pyrene	ND	0.040	mg/kg							
<i>Surrogate: Terphenyl-d14</i>	1.55		mg/kg	2.00		77.6	33.3-136			

LCS (2102542-BS1)

Prepared: 10/25/22 Analyzed: 11/04/22

1-Methylnaphthalene	0.308	0.040	mg/kg	0.400		76.9	57.6-108			
<i>Surrogate: 2-Fluorobiphenyl</i>	1.32		mg/kg	2.00		65.8	39.8-134			
2-Methylnaphthalene	0.305	0.040	mg/kg	0.400		76.2	59-106			
Acenaphthene	0.332	0.040	mg/kg	0.400		83.0	60.9-105			
Acenaphthylene	0.309	0.040	mg/kg	0.400		77.1	57.4-107			
Anthracene	0.307	0.040	mg/kg	0.400		76.9	60.8-105			
Benzo[a]anthracene	0.290	0.040	mg/kg	0.400		72.5	56.1-121			
Benzo[a]pyrene	0.301	0.040	mg/kg	0.400		75.2	56.7-115			
Benzo[b]flouranthene	0.140	0.040	mg/kg	0.400		35.0	45.4-128			BS2
Benzo[g,h,i]perylene	0.318	0.040	mg/kg	0.400		79.4	56.5-107			
Benzo[k]flouranthene	0.270	0.040	mg/kg	0.400		67.4	49.6-119			
Carbazole	0.338	0.040	mg/kg	0.400		84.6	59.7-107			
Chrysene	0.298	0.040	mg/kg	0.400		74.5	12.2-190			
Dibenz[a,h]anthracene	0.305	0.040	mg/kg	0.400		76.3	59.1-111			
Fluoranthene	0.306	0.040	mg/kg	0.400		76.4	60.6-111			
Fluorene	0.297	0.040	mg/kg	0.400		74.2	59.3-108			
Indeno[1,2,3-cd]pyrene	0.319	0.040	mg/kg	0.400		79.8	53.4-116			
Naphthalene	0.303	0.040	mg/kg	0.400		75.8	56.5-106			

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Cottonwood Consulting	Project: COGCC Table 915-1	Reported:
PO Box 1653	Project Name / Number: MS CTB	11/22/22 15:19
Durango CO, 81302	Project Manager: Kyle Siesser	

**Polynuclear Aromatic Compounds by GC/MS - Quality Control
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2102542 - SW846-3510 (Continued)

LCS (2102542-BS1) (Continued)

Prepared: 10/25/22 Analyzed: 11/04/22

<i>Surrogate: Nitrobenzene-d5</i>	0.986		mg/kg	2.00		49.3	39.6-121			
Phenanthrene	0.324	0.040	mg/kg	0.400		81.0	59.9-107			
Pyrene	0.326	0.040	mg/kg	0.400		81.6	51.5-122			
<i>Surrogate: Terphenyl-d14</i>	1.48		mg/kg	2.00		73.9	33.3-136			

LCS Dup (2102542-BSD1)

Prepared: 10/25/22 Analyzed: 11/04/22

1-Methylnaphthalene	0.310	0.040	mg/kg	0.400		77.5	57.6-108	0.777	6.22	
<i>Surrogate: 2-Fluorobiphenyl</i>	1.31		mg/kg	2.00		65.4	39.8-134			
2-Methylnaphthalene	0.304	0.040	mg/kg	0.400		76.0	59-106	0.269	6.23	
Acenaphthene	0.322	0.040	mg/kg	0.400		80.6	60.9-105	2.97	8.18	
Acenaphthylene	0.311	0.040	mg/kg	0.400		77.6	57.4-107	0.636	5	
Anthracene	0.322	0.040	mg/kg	0.400		80.5	60.8-105	4.60	3.68	QR-04
Benzo[a]anthracene	0.298	0.040	mg/kg	0.400		74.4	56.1-121	2.63	9.01	
Benzo[a]pyrene	0.300	0.040	mg/kg	0.400		75.0	56.7-115	0.213	4.92	
Benzo[b]fluoranthene	0.284	0.040	mg/kg	0.400		71.1	45.4-128	68.1	7.63	QR-04
Benzo[g,h,i]perylene	0.329	0.040	mg/kg	0.400		82.3	56.5-107	3.53	12.5	
Benzo[k]fluoranthene	0.287	0.040	mg/kg	0.400		71.8	49.6-119	6.27	10.6	
Carbazole	0.347	0.040	mg/kg	0.400		86.8	59.7-107	2.66	8.65	
Chrysene	0.291	0.040	mg/kg	0.400		72.7	12.2-190	2.41	21.8	
Dibenz[a,h]anthracene	0.318	0.040	mg/kg	0.400		79.6	59.1-111	4.21	11.6	
Fluoranthene	0.308	0.040	mg/kg	0.400		77.1	60.6-111	0.922	7.54	
Fluorene	0.298	0.040	mg/kg	0.400		74.5	59.3-108	0.407	5.49	
Indeno[1,2,3-cd]pyrene	0.327	0.040	mg/kg	0.400		81.8	53.4-116	2.40	22.3	
Naphthalene	0.304	0.040	mg/kg	0.400		75.9	56.5-106	0.0626	4.56	
<i>Surrogate: Nitrobenzene-d5</i>	0.981		mg/kg	2.00		49.1	39.6-121			
Phenanthrene	0.329	0.040	mg/kg	0.400		82.2	59.9-107	1.44	5.21	
Pyrene	0.338	0.040	mg/kg	0.400		84.6	51.5-122	3.59	10.6	
<i>Surrogate: Terphenyl-d14</i>	1.52		mg/kg	2.00		75.8	33.3-136			

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: MS CTB	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	11/22/22 15:19

Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QR-04 The RPD for the BS/BSD was outside of historical limits.
- J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
- BS2 Blank spike recovery below laboratory acceptance criteria. Results for analyte potentially biased low.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
*Results reported on as received basis unless designated as dry.
- RPD Relative Percent Difference
- LCS Laboratory Control Sample (Blank Spike)
- RL Report Limit
- MDL Method Detection Limit

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03 November 2022

Kyle Siesser
Cottonwood Consulting
PO Box 1653
Durango, CO 81302
RE: COGCC Table 915-1

Enclosed are the results of analyses for samples received by the laboratory on 10/21/22 15:00. The data to follow was performed, in whole or in part, by Green Analytical Laboratories. Any data that was performed by a subcontract laboratory is included within the GAL report, or with an additional report attached.

If you need any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads 'Jeremy D. Allen'.

Jeremy D Allen
Laboratory Director

All accredited analytes contained in this report are denoted by an asterisk (*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at <http://greenanalytical.com/certifications/>

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water. TNI Certificate Number: T104704514-22-15

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8. TNI Certificate Number: T104704398-22-15



Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: COGCC Table 915-1
Project Name / Number: MS Centralized Tank Battery
Project Manager: Kyle Siesser

Reported:
11/03/22 16:17

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
Background-1	2210206-01	Solid	10/20/22 16:45	10/21/22 15:00	
Background-2	2210206-02	Solid	10/20/22 17:00	10/21/22 15:00	
Background-3	2210206-03	Solid	10/20/22 17:15	10/21/22 15:00	
Background-4	2210206-04	Solid	10/20/22 17:30	10/21/22 15:00	
Background-5	2210206-05	Solid	10/20/22 17:45	10/21/22 15:00	

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/03/22 16:17
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Background-1

2210206-01 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

Hexavalent Chromium	<0.250	0.250	0.128	mg/kg dry	25	10/24/22 16:53	3060A/3500-Cr B	M5	HTB
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Saturated Paste Extraction

Calcium	61.7	0.100	0.058	mg/L	1	11/02/22 12:42	EPA200.7		AES
Conductivity	316			umho/cm@25 C	1	11/01/22 09:00	ASA#9 10-3.3		AWG
Magnesium	6.12	0.100	0.065	mg/L	1	11/02/22 12:42	EPA200.7		AES
pH	7.48			pH Units	1	11/01/22 09:00	ASA#9 10-3.2		AWG
SAR	0.14			No Unit	1	11/02/22 12:42	Calculation		AES
Sodium	4.40	1.00	0.079	mg/L	1	11/02/22 12:42	EPA200.7		AES

Total Metals by ICP

Barium	172	5.00	1.10	mg/kg dry	100	11/02/22 11:50	6010B		AES
Cadmium	<5.00	5.00	2.54	mg/kg dry	100	11/02/22 11:50	6010B		AES
Chromium	19.2	5.00	1.58	mg/kg dry	100	11/02/22 11:50	6010B		AES
Copper	13.0	5.00	2.83	mg/kg dry	100	11/02/22 11:50	6010B		AES
Lead	<10.0	10.0	4.02	mg/kg dry	100	11/02/22 11:50	6010B		AES
Nickel	12.7	5.00	2.41	mg/kg dry	100	11/02/22 11:50	6010B		AES
Selenium	<20.0	20.0	5.39	mg/kg dry	100	11/02/22 11:50	6010B		AES
Silver	<1.00	1.00	0.518	mg/kg dry	100	11/02/22 11:50	6010B		AES
Zinc	54.3	10.0	2.18	mg/kg dry	100	11/02/22 11:50	6010B		AES

Total Metals by ICPMS

Arsenic	3.97	1.00	0.158	mg/kg dry	1000	11/01/22 12:58	6020A		AES
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Hot Water Extractable

Boron	<1.20	1.20	0.568	mg/L	4	11/02/22 15:05	EPA200.7		AES
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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/03/22 16:17
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Background-2

2210206-02 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

Hexavalent Chromium	<0.250	0.250	0.128	mg/kg dry	25	10/24/22 16:53	3060A/3500-Cr B		HTB
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Saturated Paste Extraction

Calcium	34.3	0.100	0.058	mg/L	1	11/02/22 12:44	EPA200.7		AES
Conductivity	226			umho/cm@25 C	1	11/01/22 09:00	ASA#9 10-3.3		AWG
Magnesium	7.59	0.100	0.065	mg/L	1	11/02/22 12:44	EPA200.7		AES
pH	6.56			pH Units	1	11/01/22 09:00	ASA#9 10-3.2		AWG
SAR	0.27			No Unit	1	11/02/22 12:44	Calculation		AES
Sodium	6.65	1.00	0.079	mg/L	1	11/02/22 12:44	EPA200.7		AES

Total Metals by ICP

Barium	156	5.00	1.10	mg/kg dry	100	11/02/22 12:00	6010B		AES
Cadmium	<5.00	5.00	2.54	mg/kg dry	100	11/02/22 12:00	6010B		AES
Chromium	19.0	5.00	1.58	mg/kg dry	100	11/02/22 12:00	6010B		AES
Copper	12.7	5.00	2.83	mg/kg dry	100	11/02/22 12:00	6010B		AES
Lead	10.1	10.0	4.02	mg/kg dry	100	11/02/22 12:00	6010B		AES
Nickel	11.4	5.00	2.41	mg/kg dry	100	11/02/22 12:00	6010B		AES
Selenium	<20.0	20.0	5.39	mg/kg dry	100	11/02/22 11:59	6010B		AES
Silver	<1.00	1.00	0.518	mg/kg dry	100	11/02/22 11:59	6010B		AES
Zinc	53.8	10.0	2.18	mg/kg dry	100	11/02/22 12:00	6010B		AES

Total Metals by ICPMS

Arsenic	3.49	1.00	0.158	mg/kg dry	1000	11/01/22 13:00	6020A		AES
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Hot Water Extractable

Boron	<1.20	1.20	0.568	mg/L	4	11/02/22 15:07	EPA200.7		AES
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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/03/22 16:17
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Background-3

2210206-03 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

Hexavalent Chromium	<0.250	0.250	0.128	mg/kg dry	25	10/24/22 16:53	3060A/3500-Cr B		HTB
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Saturated Paste Extraction

Calcium	34.8	0.100	0.058	mg/L	1	11/02/22 12:47	EPA200.7		AES
Conductivity	235			umho/cm@25 C	1	11/01/22 09:00	ASA#9 10-3.3		AWG
Magnesium	6.51	0.100	0.065	mg/L	1	11/02/22 12:47	EPA200.7		AES
pH	6.68			pH Units	1	11/01/22 09:00	ASA#9 10-3.2		AWG
SAR	0.31			No Unit	1	11/02/22 12:47	Calculation		AES
Sodium	7.60	1.00	0.079	mg/L	1	11/02/22 12:47	EPA200.7		AES

Total Metals by ICP

Barium	154	5.00	1.10	mg/kg dry	100	11/02/22 12:05	6010B		AES
Cadmium	<5.00	5.00	2.54	mg/kg dry	100	11/02/22 12:05	6010B		AES
Chromium	18.4	5.00	1.58	mg/kg dry	100	11/02/22 12:05	6010B		AES
Copper	12.3	5.00	2.83	mg/kg dry	100	11/02/22 12:05	6010B		AES
Lead	<10.0	10.0	4.02	mg/kg dry	100	11/02/22 12:05	6010B		AES
Nickel	11.6	5.00	2.41	mg/kg dry	100	11/02/22 12:05	6010B		AES
Selenium	<20.0	20.0	5.39	mg/kg dry	100	11/02/22 12:04	6010B		AES
Silver	<1.00	1.00	0.518	mg/kg dry	100	11/02/22 12:04	6010B		AES
Zinc	52.5	10.0	2.18	mg/kg dry	100	11/02/22 12:05	6010B		AES

Total Metals by ICPMS

Arsenic	3.61	1.00	0.158	mg/kg dry	1000	11/01/22 13:05	6020A		AES
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Hot Water Extractable

Boron	<1.20	1.20	0.568	mg/L	4	11/02/22 15:10	EPA200.7		AES
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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/03/22 16:17
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Background-4

2210206-04 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

Hexavalent Chromium	0.364	0.250	0.128	mg/kg dry	25	10/24/22 16:53	3060A/3500-Cr B		HTB
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Saturated Paste Extraction

Calcium	32.6	0.100	0.058	mg/L	1	11/02/22 12:49	EPA200.7		AES
Conductivity	208			umho/cm@25 C	1	11/01/22 09:00	ASA#9 10-3.3		AWG
Magnesium	6.78	0.100	0.065	mg/L	1	11/02/22 12:49	EPA200.7		AES
pH	6.16			pH Units	1	11/01/22 09:00	ASA#9 10-3.2		AWG
SAR	0.10			No Unit	1	11/02/22 12:49	Calculation		AES
Sodium	2.44	1.00	0.079	mg/L	1	11/02/22 12:49	EPA200.7		AES

Total Metals by ICP

Barium	192	5.00	1.10	mg/kg dry	100	11/02/22 12:09	6010B		AES
Cadmium	<5.00	5.00	2.54	mg/kg dry	100	11/02/22 12:09	6010B		AES
Chromium	22.4	5.00	1.58	mg/kg dry	100	11/02/22 12:09	6010B		AES
Copper	18.0	5.00	2.83	mg/kg dry	100	11/02/22 12:09	6010B		AES
Lead	12.5	10.0	4.02	mg/kg dry	100	11/02/22 12:09	6010B		AES
Nickel	13.4	5.00	2.41	mg/kg dry	100	11/02/22 12:09	6010B		AES
Selenium	<20.0	20.0	5.39	mg/kg dry	100	11/02/22 12:09	6010B		AES
Silver	<1.00	1.00	0.518	mg/kg dry	100	11/02/22 12:09	6010B		AES
Zinc	96.6	10.0	2.18	mg/kg dry	100	11/02/22 12:09	6010B		AES

Total Metals by ICPMS

Arsenic	3.46	1.00	0.158	mg/kg dry	1000	11/01/22 13:06	6020A		AES
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Hot Water Extractable

Boron	1.51	1.20	0.568	mg/L	4	11/02/22 15:12	EPA200.7		AES
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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/03/22 16:17
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Background-5

2210206-05 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

Hexavalent Chromium	<0.250	0.250	0.128	mg/kg dry	25	10/24/22 16:53	3060A/3500-Cr B		HTB
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Saturated Paste Extraction

Calcium	30.4	0.100	0.058	mg/L	1	11/02/22 12:51	EPA200.7		AES
Conductivity	256			umho/cm@25 C	1	11/01/22 09:00	ASA#9 10-3.3		AWG
Magnesium	7.26	0.100	0.065	mg/L	1	11/02/22 12:52	EPA200.7		AES
pH	6.05			pH Units	1	11/01/22 09:00	ASA#9 10-3.2		AWG
SAR	0.18			No Unit	1	11/02/22 12:51	Calculation		AES
Sodium	4.37	1.00	0.079	mg/L	1	11/02/22 12:52	EPA200.7		AES

Total Metals by ICP

Barium	148	5.00	1.10	mg/kg dry	100	11/02/22 12:14	6010B		AES
Cadmium	<5.00	5.00	2.54	mg/kg dry	100	11/02/22 12:14	6010B		AES
Chromium	19.6	5.00	1.58	mg/kg dry	100	11/02/22 12:14	6010B		AES
Copper	15.3	5.00	2.83	mg/kg dry	100	11/02/22 12:14	6010B		AES
Lead	<10.0	10.0	4.02	mg/kg dry	100	11/02/22 12:14	6010B		AES
Nickel	11.3	5.00	2.41	mg/kg dry	100	11/02/22 12:14	6010B		AES
Selenium	<20.0	20.0	5.39	mg/kg dry	100	11/02/22 12:13	6010B		AES
Silver	<1.00	1.00	0.518	mg/kg dry	100	11/02/22 12:13	6010B		AES
Zinc	71.4	10.0	2.18	mg/kg dry	100	11/02/22 12:14	6010B		AES

Total Metals by ICPMS

Arsenic	3.43	1.00	0.158	mg/kg dry	1000	11/01/22 13:08	6020A		AES
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Hot Water Extractable

Boron	<1.20	1.20	0.568	mg/L	4	11/02/22 15:19	EPA200.7		AES
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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: MS Centralized Tank Battery	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	11/03/22 16:17

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B222944 - General Prep - Wet Chem										
Blank (B222944-BLK1) Prepared & Analyzed: 10/24/22										
Hexavalent Chromium	ND	0.250	mg/kg dry							
LCS (B222944-BS1) Prepared & Analyzed: 10/24/22										
Hexavalent Chromium	2.37	0.250	mg/kg dry	2.50		95.0	85-115			

Saturated Paste Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B223009 - Paste Extract										
Blank (B223009-BLK1) Prepared: 10/31/22 Analyzed: 11/02/22										
Calcium	ND	0.100	mg/L							
Magnesium	ND	0.100	mg/L							
SAR	0.00		No Unit							
Sodium	ND	1.00	mg/L							
Reference (B223009-SRM1) Prepared: 10/31/22 Analyzed: 11/02/22										
SAR	10.7		No Unit	10.5		102	90-110			
Batch B223010 - Paste Extract										
Reference (B223010-SRM1) Prepared: 10/31/22 Analyzed: 11/01/22										
pH	6.86		pH Units	6.93		99.0	92-108			
Batch B223011 - Paste Extract										
Reference (B223011-SRM1) Prepared: 10/31/22 Analyzed: 11/01/22										
Conductivity	7950		umho/cm@25C	8340		95.4	90-110			

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: MS Centralized Tank Battery	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	11/03/22 16:17

Total Metals by ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B223007 - EPA 3050

Blank (B223007-BLK1)

Prepared: 10/31/22 Analyzed: 11/02/22

Barium	ND	5.00	mg/kg dry							
Cadmium	ND	5.00	mg/kg dry							
Chromium	ND	5.00	mg/kg dry							
Copper	ND	5.00	mg/kg dry							
Lead	ND	10.0	mg/kg dry							
Nickel	ND	5.00	mg/kg dry							
Selenium	ND	20.0	mg/kg dry							
Silver	ND	1.00	mg/kg dry							
Zinc	ND	10.0	mg/kg dry							

LCS (B223007-BS1)

Prepared: 10/31/22 Analyzed: 11/02/22

Barium	189	5.00	mg/kg dry	200		94.3	80-120			
Cadmium	177	5.00	mg/kg dry	200		88.6	80-120			
Chromium	183	5.00	mg/kg dry	200		91.6	80-120			
Copper	395	5.00	mg/kg dry	400		98.7	80-120			
Lead	181	10.0	mg/kg dry	200		90.5	80-120			
Nickel	182	5.00	mg/kg dry	200		90.9	80-120			
Selenium	777	20.0	mg/kg dry	800		97.1	80-120			
Silver	9.34	1.00	mg/kg dry	10.0		93.4	80-120			
Zinc	169	10.0	mg/kg dry	200		84.3	80-120			

LCS Dup (B223007-BSD1)

Prepared: 10/31/22 Analyzed: 11/02/22

Barium	191	5.00	mg/kg dry	200		95.7	80-120	1.47	20	
Cadmium	174	5.00	mg/kg dry	200		87.2	80-120	1.51	20	
Chromium	186	5.00	mg/kg dry	200		93.0	80-120	1.51	20	
Copper	399	5.00	mg/kg dry	400		99.8	80-120	1.19	20	
Lead	179	10.0	mg/kg dry	200		89.7	80-120	0.852	20	
Nickel	179	5.00	mg/kg dry	200		89.6	80-120	1.42	20	
Selenium	768	20.0	mg/kg dry	800		96.0	80-120	1.12	20	
Silver	9.33	1.00	mg/kg dry	10.0		93.3	80-120	0.0541	20	
Zinc	167	10.0	mg/kg dry	200		83.4	80-120	1.15	20	

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: MS Centralized Tank Battery Project Manager: Kyle Siesser	Reported: 11/03/22 16:17
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Total Metals by ICPMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B223008 - EPA 3050M

Blank (B223008-BLK1)

Prepared: 10/31/22 Analyzed: 11/01/22

Arsenic	ND	1.00	mg/kg dry							
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LCS (B223008-BS1)

Prepared: 10/31/22 Analyzed: 11/01/22

Arsenic	4.95	1.00	mg/kg dry	5.00		99.1	80-120			
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LCS Dup (B223008-BSD1)

Prepared: 10/31/22 Analyzed: 11/01/22

Arsenic	5.04	1.00	mg/kg dry	5.00		101	80-120	1.74	20	
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Hot Water Extractable - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B222996 - Hot Water Soluble Metals Extract

Blank (B222996-BLK1)

Prepared: 10/28/22 Analyzed: 11/02/22

Boron	ND	1.20	mg/L							
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Notes and Definitions

- M5 Sample was chosen for matrix spike. Spike recovery did not meet laboratory acceptance criteria, possible matrix interference in sample.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
*Results reported on as received basis unless designated as dry.
- RPD Relative Percent Difference
- LCS Laboratory Control Sample (Blank Spike)
- RL Report Limit
- MDL Method Detection Limit

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(970) 247-4220 service@greenanalytical.com or dzufelt@greenanalytical.com
 Fax: (970) 247-4227 75 Suttle St Durango, CO 81303

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 1

Company Name: Cottonwood Consulting LLC
 Project Manager: Kyle Siesser
 Address: PO Box 1653
 City: Durango State: CO Zip: 81302
 Phone #: (970) 764-7356 Email: ksiesser@cottonwoodconsulting.com
 Additional Report To:
 Project Name: MS Centralized Tank Battery
 Project Number:
 Sampler Name (Print): Kyle Siesser / Kelsey O'Brien
 FOR LAB USE ONLY

Bill to (if different):
 P.O. #:
 Company: COGCC
 Attn: James Hix
 Address: 1120 Lincoln St Ste 801
 City: Denver
 State: CO Zip: 80203
 Phone #: 303 894 2100 x 5181
 Fax or Email: james.hix@sthrte.co.us

Lab I.D.	Sample Name or Location	Collected		Matrix (check one)		# of containers		ANALYSIS REQUEST											
		Date	Time	GROUNDWATER	SURFACEWATER	WASTEWATER	PRODUCEDWATER		SOIL	OTHER :	No preservation (general)	HNO ³	HCl	H ₂ SO ₄	Other:	Other:			
2-216-206	Background - 1	10/21/22	1645					X											
-01	Background - 2		1700																
-02	Background - 3		1715																
-03	Background - 4		1730																
-04	Background - 5		1745																
-05																			

PLEASE NOTE: GAL's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by GAL within 30 days after completion. In no event shall GAL be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder.

Relinquished By: lyh li Date: 10/21/22 Time: 1500 Received By: Dulcie Zuplet

Relinquished By: _____ Date: _____ Time: _____ Received By: _____

Relinquished By: _____ Date: _____ Time: _____ Received By: _____

Delivered By: (Circle One) UPS - FedEx - Kangaroo - Other: _____ Temperature at receipt: 5.2c ice CHECKED BY: llc

Sampler: UPS - FedEx - Kangaroo - Other: _____

ADDITIONAL REMARKS: Standard TAT

Report to State? (Circle) No

* Chain of Custody must be signed in "Relinquished By:" as an acceptance of services and all applicable charges.