



April 30, 2024

Mr. Jason Davidson, PG
PDC Energy Inc.
4000 Burlington Ave
Evans, CO 80620

**RE: Background Soil Sampling and Produced Water Sampling Results:
Mershon Production Facility and Associated Wellheads Closure Request.
ECMC Remediation Project #24760
Weld County, Colorado**

Mr. Davidson,

Entrada Consulting Group, Inc. (Entrada) has prepared this report for PDC Energy, Inc. (PDC) to present the results of background soil sampling and produced water sampling activities conducted for the Mershon production facility (Mershon Pad, Site) and associated wellheads. A general location map is provided as Figure 1.

The Initial Form 27 Site Investigation and Remediation Workplan (Energy and Carbon Management Commission [ECMC] Document Number 403145274) for facility closure was approved by the ECMC on August 29, 2022, and was assigned Remediation Project Number 24760. Entrada was retained by PDC to conduct facility closure field screening and to collect confirmation soil samples during decommissioning of the production facility equipment and during cut and cap activities of the wellheads.

In October, 2022, approximately 5,930 cubic yards of impacted soil was excavated from three excavations on Site and hauled offsite for disposal under PDC manifest to Waste Management's North Weld Landfill in Ault, Colorado in accordance with Rules 905 and 906. A summary report of work completed, *Facility Closure Investigation and Excavation Environmental Report, Mershon Production Facility and Associated Wellheads*, dated January 10, 2023, was submitted on April 24, 2023 with Form 27 Document Number 403283666. The form had previously been returned to draft with an Environmental User Group Comment to conduct additional background soil sampling for arsenic, barium and selenium.

On July 21, 2023, PDC submitted Supplemental Form 27 Document Number 403472534 proposing 10 background soil borings located in areas away from former oil and gas infrastructure associated with the facility. Soil samples were proposed at depths representative of floor and sidewall confirmation soil samples collected from the 2022 excavations, to be submitted for analysis of arsenic and barium. The form was approved August 28, 2023 without conditions of approval.

This report presents the results of the background soil boring investigation. In addition, this report presents the results of produced water sampling conducted at the nearby Kodak South FD pad to characterize metals concentrations in produced water for the Niobrara and Codell formations in this area, discussed in detail below.

BACKGROUND SOIL BORING INVESTIGATION

Ten background soil borings (BKG02 – BKG11) were advanced into native soils offsite on September 28, 2023, utilizing a track mounted Geoprobe® with direct push sampling equipment. Each soil boring was advanced to 15 feet below ground surface (ft-bgs), and samples were collected from the 5-7 ft-bgs, 10-12 ft-bgs, and 13-15 ft-bgs intervals. These intervals are representative of all floor and sidewall soil sample depths that were collected during 2022 excavation activities. Lithologies encountered during the soil boring investigation are characterized by silty sand and clayey silt from the surface to depths of 10 to 13 ft-bgs, and well graded fine to medium grain sand at depths from 10 to 13 ft-bgs and 15 ft-bgs. These lithologies are consistent with what was observed during excavation activities. Soil boring locations are presented on Figure 2, and soil boring logs are provided in Attachment A.

Background Soil Boring Analytical Results

Thirty background soil samples were collected from 10 soil borings and submitted for analysis of arsenic and barium by EPA Method 6020B. Background arsenic concentrations were reported from 1.19 milligrams per kilogram (mg/kg) to 9.67 mg/kg, and background barium concentrations were reported from 24.9 mg/kg to 275 mg/kg. Background standards were calculated using 1.25x the average of these metals and resulted in site-specific background standards of 5.46 mg/kg for arsenic and 116 mg/kg for barium.

Metals concentrations for confirmation soil samples collected during excavation activities were compared to the calculated site-specific background levels. A summary of remaining exceedances, relative to the calculated standards, is provided below:

- Arsenic was reported above the calculated standard of 5.46 mg/kg in confirmation soil samples 2EX23@12 (6.96 mg/kg), 2EX24@6 (6.09 mg/kg), 2EX26@12 (6.12 mg/kg), 2EX29@6 (7.54 mg/kg) and 3EX07@6 (5.87 mg/kg).

- Barium was reported above the calculated standard of 116 mg/kg in confirmation soil sample EX13@10 (149 mg/kg).

All remaining analytical results reported for facility closure and excavation confirmation soil samples are compliant with their respective standards. Inorganic soil sample results for all background, facility closure and excavation soil samples are provided in Table 1, and the analytical report for the background soil sampling investigation is provided in Attachment B. All remaining analytical results and additional information related to facility closure and excavation activities were provided in the summary report referenced above.

PRODUCED WATER SAMPLING ACTIVITIES

In order to evaluate the feasibility of metals concentrations in soils at the Site resulting from product produced at the former Mershon Pad facility, produced water samples were collected from PDC's Kodak South FD pad, located approximately 0.3 miles west of the Site.

The wells at the former Mershon Pad facility were deviated (S-curve) vertical wells that produced from the Niobrara and the Codell formations. All wells at the Site were plugged and abandoned to allow for the horizontal development of the Niobrara and Codell formations in this area from the Kodak South FD Pad to the west. A map showing wellbore paths for the former Mershon Pad, and for the Kodak South FD pad, is provided on Figure 3. The Kodak South FD pad wellbores are represented by actual directional surveys, while the former Mershon Pad wells are represented by top hole–bottom hole location connectors without directional surveys.

To characterize Niobrara produced water, a sample was collected from the Kodak South FD #25-280HN horizontal well on April 21, 2023. To characterize Codell produced water, a sample was collected from the Kodak South FD #25-241HC horizontal well on June 8, 2023. First production dates for both wells were in late 2017. Therefore, produced water samples were collected long after the flowback of frac water would have been completed, which generally takes between one to three months. For this reason, the produced water samples can be considered representative of water produced at the former Mershon Pad facility, in addition to being representative of the same geologic formations in the same geographic area, as shown on Figure 3.

Both samples were submitted for analysis of total recoverable metals: arsenic, barium, cadmium, copper, lead, nickel, selenium, silver, and zinc by EPA Method 200.8. The analytical results are presented in Table 2, and the analytical reports are provided in Attachment B.

Produced Water Analytical Results

Produced water analytical results are reported in milligrams per liter (mg/l), which is approximate to mg/kg (one liter of fresh water is equal to one kilogram). Because the density of produced water is slightly greater than the density of fresh water, the concentrations of arsenic and barium in produced water reported on a per-liter basis are actually slightly less when considered on a per-kilogram basis (one milligram per liter produced water equals less than one milligram per kilogram produced water). A summary of produced water analytical results for arsenic and barium is provided below:

- Arsenic was reported at a concentration of 0.00189 mg/l for the Niobrara sample, and 0.00117 mg/l for the Codell sample.
- Barium was reported at a concentration of 12.600 mg/l for the Niobrara sample, and 6.990 mg/l for the Codell sample.

SUMMARY

Based on the analytical results of the background soil sampling investigation, elevated arsenic concentrations remain in five excavation confirmation soil samples and elevated barium concentrations remain in one excavation confirmation soil sample, relative to the calculated background standards.

Based on the results of produced water sampling, the highest arsenic concentration of 7.54 mg/kg reported in soils at the former Mershon Pad facility is approximately 5,000 times the average concentration of 0.00153 mg/l, reported in produced water. The highest barium concentration of 149 mg/kg reported in soils at the Site is approximately 15 times the average reported concentration of 9.79 mg/l in reported in produced water.

These results suggest that elevated concentrations of arsenic and barium in soils at the Site cannot be the result of oil and gas operations and are representative of naturally occurring background concentrations. In order for these metals to deposit in soils at concentrations reported for soil samples discussed above, large volumes of produced water would be required to have moved through the soil while depositing only metals, and none of the organics or salts that would contribute to other elevated analytes. All analytical results for organics, pH, EC, SAR, and boron in these samples are compliant with their respective GWSSLs, indicating that all areas where produced water and hydrocarbons had concentrated on Site have been excavated and hauled to an appropriately licensed disposal facility.

Based on these results, Entrada recommends that PDC respectfully request that the ECMC grant closure status for Remediation Project Number 24760.

We appreciate the opportunity to assist PDC Energy, Inc. Please contact me at (804) 513-0707 if you have any questions.

Sincerely,

ENTRADA CONSULTING GROUP

A handwritten signature in black ink, appearing to read 'Ben Baugh', with a long horizontal stroke extending to the right.

Ben Baugh, P.G.
Senior Project Geologist

Attachments:

Figure 1 – General Location Map

Figure 2 – Background Soil Boring Location Map

Figure 3 – Wellbore Map, Mershon Pad and Kodak South FD Pad

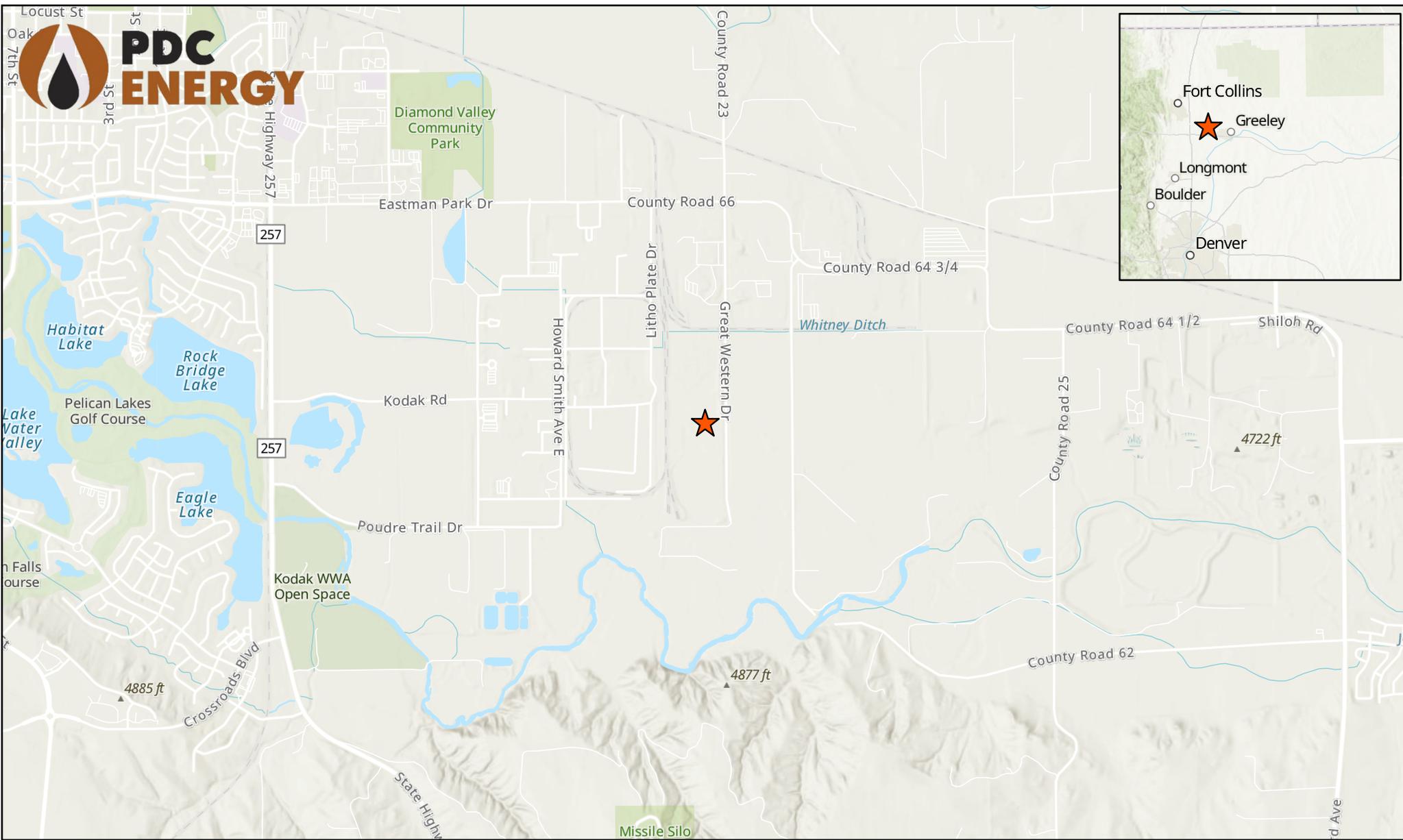
Table 1 – Soil Analytical Results: Inorganics

Table 2 – Produced Water Analytical Results: Metals

Attachment A: Soil Boring Logs

Attachment B: Analytical Reports

FIGURES



LEGEND

★ Site Location

0 0.5 1 Miles
1 inch = 0.5 Mile

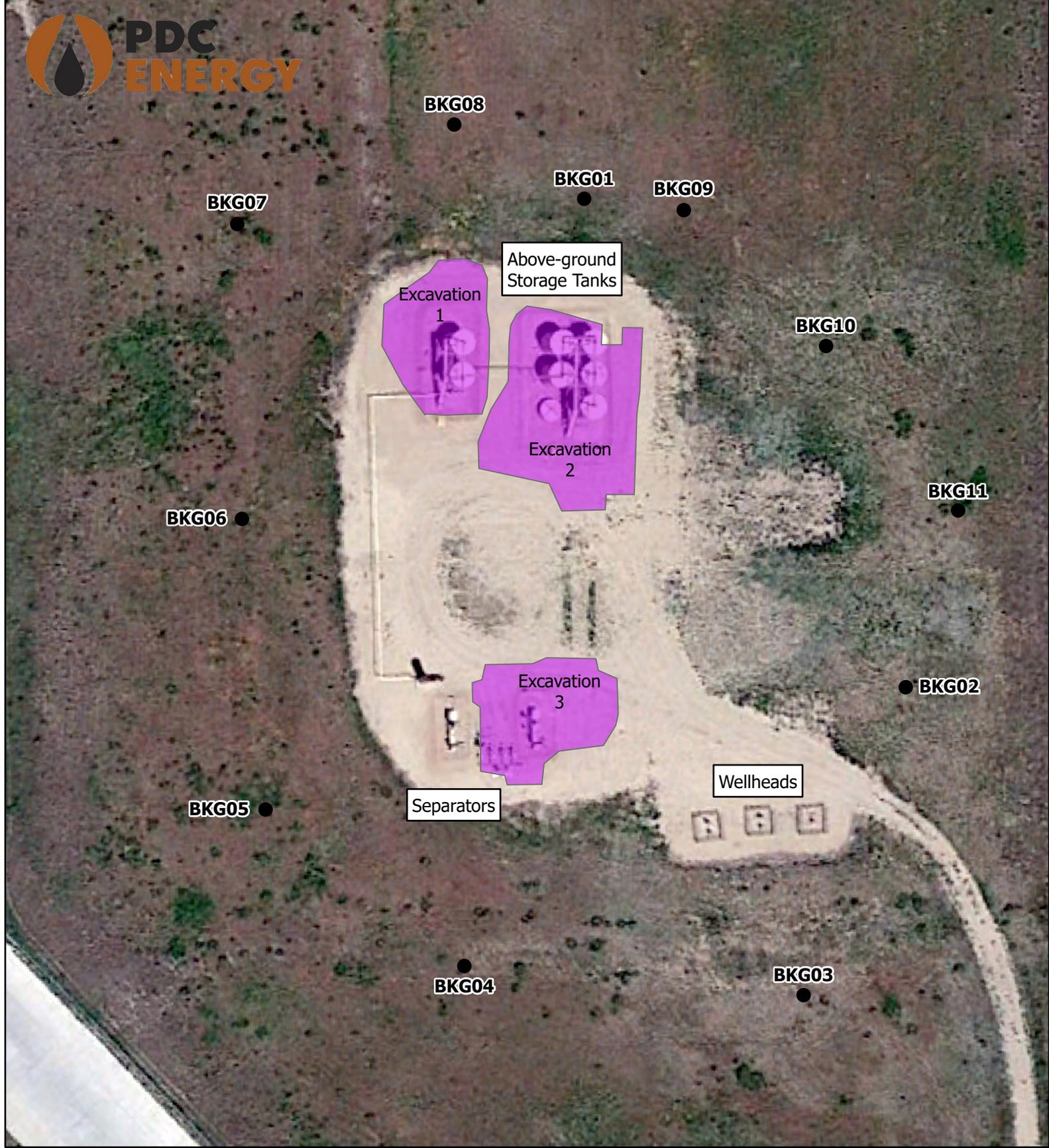
Project No:	022-089
Map By:	JW
Date:	11/18/2022

GENERAL LOCATION MAP
MERSON PAD AND ASSOCIATED WELLHEADS
 PDC ENERGY
 SW 1/4 SE 1/4 SECTION 26
 T6N R67W, 6TH PM
 WELD COUNTY, COLORADO



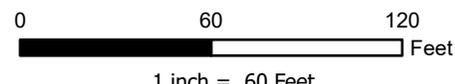
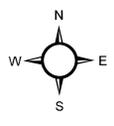
1843 Sunlight Dr.
 Longmont, CO 80504
 303.378.4036

Figure
1

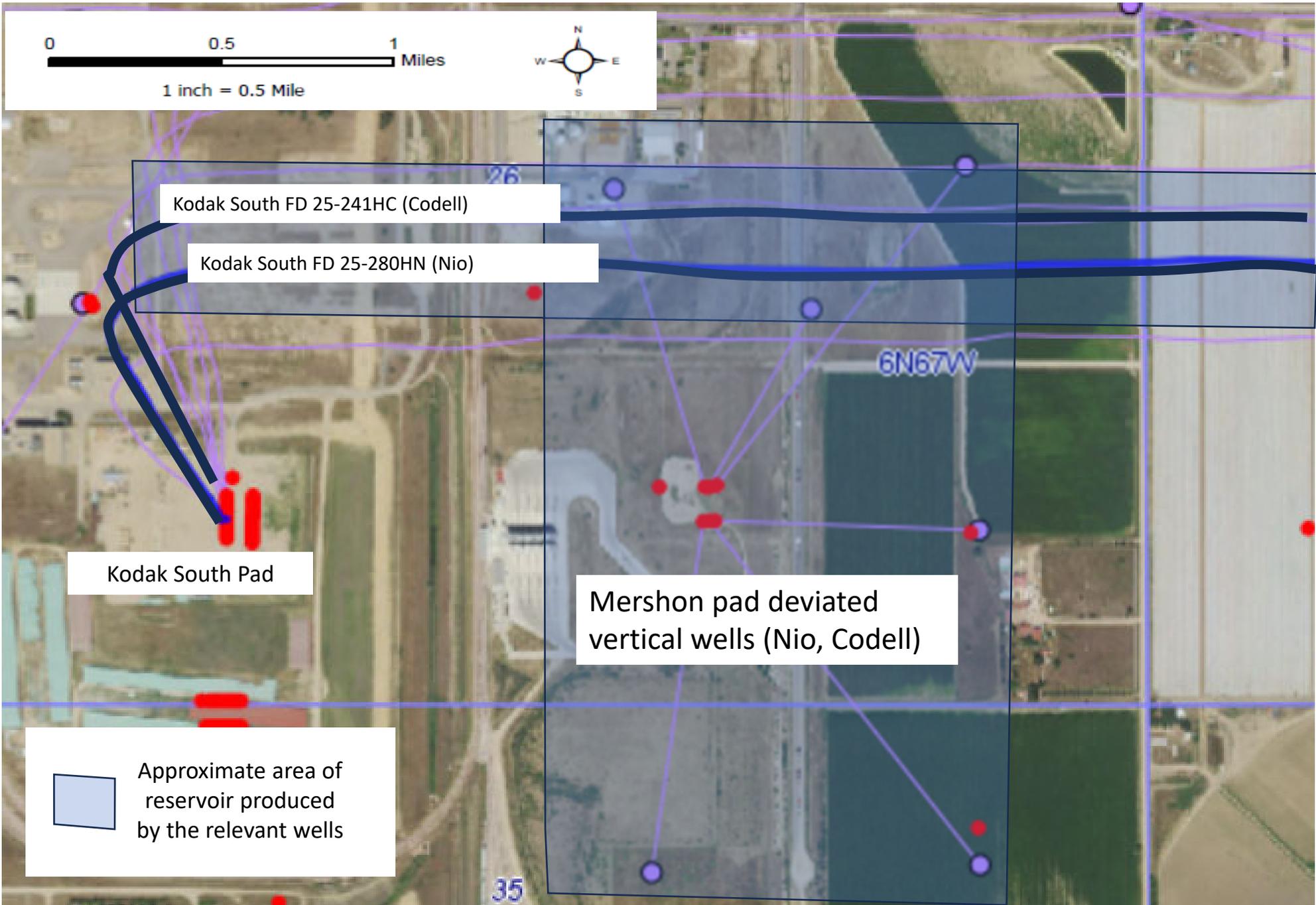


Legend

- Background Boring Location
- █ Excavation Extent

Project No: 022-089	EXCAVATIONS & BACKGROUND SOIL BORINGS MERSHON PRODUCTION FACILITY AND ASSOCIATED WELLHEADS PDC ENERGY		1843 Sunlight Drive Longmont, CO 80504 303.378.4036	Figure
Map By: JW	SW 1/4 SE 1/4 SECTION 26, T6N R67W, 6TH PM WELD COUNTY, COLORADO			2
Date: 04/22/2024				



Project No:
Drawn By: BB
Date: 4/22/2024

Meshon Pad, Kodak South Pad Wellbores
 Sec. 26 T6N R67W



1843 Sunlight Dr.
 Longmont, CO 80504
 303.378.4036

FIGURE
3

TABLES



TABLE 1
Merston Pad Facility Closure, Weld County, CO
Soil Analytical Results Summary Table - Inorganics

Sample Information				Soil Suitability for Reclamation				Metals in Soils									
Sample ID	Depth	Sample Date	PID Field Screening	EC	SAR	pH	Boron	Arsenic	Barium	Cadmium	Chromium (VI)	Copper	Lead	Nickel	Selenium	Silver	Zinc
Units -->	ft-bgs	mm/dd/yyyy	ppm	mmhos/cm	Unitless	Unitless	mg/l	mg/kg									
COGCC RSSL -->				<4	<6	6.0 - 8.3	2	0.68	15000	71	0.3	3100	400	1500	390	390	23000
COGCC GWSSL -->				<4	<6	6.0 - 8.3	2	0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
1.25x Average Background Level				NA				5.46	116	NA	NA	NA	NA	NA	1.88	NA	NA
Max Background Level All Samples				NA				9.67	275	NA	NA	NA	NA	NA	NA	NA	NA
Background Samples																	
BKG01@1	1	9/22/2022	NM	0.290	0.628	8.30	0.235	7.97	119						1.50		
BKG01@3	3	9/22/2022	NM	0.486	1.27	8.23	0.101		68.1								
BKG01@5	5	9/22/2022	NM	1.66	1.49	8.08	0.124		57.6								
BKG01@8	8	9/22/2022	NM	2.96	2.13	7.94	0.155	4.60	85.0						1.10		
BKG02@5-7	5-7	9/28/2023	NM					5.90	96.9								
BKG02@10-12	10-12	9/28/2023	NM					4.95	76.7								
BKG02@13-15	13-15	9/28/2023	NM					9.67	275								
BKG03@5-7	5-7	9/28/2023	NM					4.62	68.6								
BKG03@10-12	10-12	9/28/2023	NM					5.83	125								
BKG03@13-15	13-15	9/28/2023	NM					2.71	33.3								
BKG04@5-7	5-7	9/28/2023	NM					6.03	105								
BKG04@10-12	10-12	9/28/2023	NM					3.95	47.6								
BKG04@13-15	13-15	9/28/2023	NM					2.15	128								
BKG05@5-7	5-7	9/28/2023	NM					3.85	51.5								
BKG05@10-12	10-12	9/28/2023	NM					2.46	174								
BKG05@13-15	13-15	9/28/2023	NM					6.56	197								
BKG06@5-7	5-7	9/28/2023	NM					4.13	54.4								
BKG06@10-12	10-12	9/28/2023	NM					4.32	74.4								
BKG06@13-15	13-15	9/28/2023	NM					1.19	29.4								
BKG07@5-7	5-7	9/28/2023	NM					5.05	114								
BKG07@10-12	10-12	9/28/2023	NM					2.09	112								
BKG07@13-15	13-15	9/28/2023	NM					6.37	130								
BKG08@5-7	5-7	9/28/2023	NM					4.96	99.4								
BKG08@10-12	10-12	9/28/2023	NM					4.84	128								
BKG08@13-15	13-15	9/28/2023	NM					2.85	80.2								
BKG09@5-7	5-7	9/28/2023	NM					4.79	69.1								
BKG09@10-12	10-12	9/28/2023	NM					2.09	24.9								
BKG09@13-15	13-15	9/28/2023	NM					2.32	73.6								
BKG10@5-7	5-7	9/28/2023	NM					4.38	69.3								
BKG10@10-12	10-12	9/28/2023	NM					2.83	29.7								
BKG10@13-15	13-15	9/28/2023	NM					4.41	79.1								
BKG11@5-7	5-7	9/28/2023	NM					4.34	81.7								
BKG11@10-12	10-12	9/28/2023	NM					4.51	77.0								
BKG11@13-15	13-15	9/28/2023	NM					3.03	122								





TABLE 1
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Sample ID	Depth	Sample Date	PID Field Screening	EC	SAR	pH	Boron	Arsenic	Barium	Cadmium	Chromium (VI)	Copper	Lead	Nickel	Selenium	Silver	Zinc
Units -->	ft-bgs	mm/dd/yyyy	ppm	mmhos/cm	Unitless	Unitless	mg/l	mg/kg									
COGCC RSSL -->				<4	<6	6.0 - 8.3	2	0.68	15000	71	0.3	3100	400	1500	390	390	23000
COGCC GWSSL -->				<4	<6	6.0 - 8.3	2	0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
1.25x Average Background Level				NA				5.46	116	NA	NA	NA	NA	NA	1.88	NA	NA
Max Background Level All Samples				NA				9.67	275	NA	NA	NA	NA	NA	NA	NA	NA
Facility Closure Sampling																	
AST03@0.5	0.5	9/20/2022	39.0	1.43	3.92	7.72	0.182	3.48	300	<0.226	<0.30	9.10	6.87	8.60	0.710	0.0349	34.6
PWV01@5	5	9/21/2022	0.0	2.62	3.97	7.97	0.230										
FLR01@3	3	9/21/2022	0.0	0.30	0.330	7.73	0.0934										
FLR02@3	3	9/21/2022	0.0	0.358	0.404	7.79	0.106										
FLR03@4	4	9/21/2022	0.0	0.186	0.545	7.77	0.140										
Excavation 1 (Northwest Excavation)																	
WC02@5	5	10/4/2022	1550	0.360	1.14	8.11	<0.0100	4.86	80.1	<0.239	<0.30	7.80	7.86	8.18	0.731	0.0344	35.1
EX01@14	14	10/4/2022	0.0	1.02	0.825	7.77	<0.0100	4.55	65.4	<0.243	<0.30	6.78	5.87	8.48	0.728	<0.0243	30
EX02@14.5	14.5	10/5/2022	0.0	0.747	1.37	7.95	0.0441	1.44	50.7	<0.235	<0.30	4.12	5.22	5.04	<0.306	<0.0235	17.3
EX03@14	14	10/5/2022	0.0	0.808	1.39	7.68	0.0471	1.30	31.9	<0.235	<0.30	4.67	4.80	4.67	<0.305	<0.0235	17.5
EX04@5	5	10/6/2022	0.0	0.845	1.41	7.73	0.113	1.44	55.5	<0.231	<0.30	5.09	7.01	5.66	<0.301	0.126	23.6
EX04@10	10	10/5/2022	2.6	0.713	1.00	7.71	0.121	1.41	72.1	<0.238	<0.30	5.81	7.89	6.07	<0.309	0.0414	24.2
EX05@5	5	10/6/2022	0.0	0.573	1.07	7.64	0.127	1.60	74.2	<0.236	<0.30	6.49	9.67	7.14	<0.306	0.162	29.3
EX05@10	10	10/5/2022	0.0	1.92	0.813	7.62	0.0225	1.77	55.9	<0.237	<0.30	3.86	4.75	5.25	<0.309	<0.0237	17.2
EX06@5	5	10/6/2022	0.0	0.635	1.16	7.92	0.112	1.45	51.4	<0.223	<0.30	4.48	6.60	5.45	<0.289	0.144	22.2
EX06@10	10	10/5/2022	0.0	0.0811	1.20	7.58	0.0125	1.21	59.9	<0.217	<0.30	4.14	5.20	5.21	<0.282	0.0321	16.7
EX07@5	5	10/6/2022	0.0	1.33	2.07	7.61	0.115	1.39	66.5	<0.219	<0.30	5.58	8.16	6.14	<0.284	0.137	25.3
EX07@10	10	10/5/2022	0.0	0.823	1.02	7.73	0.0173	1.77	53.4	<0.215	<0.30	3.17	5.25	4.28	<0.279	0.0219	12.6
EX08@5	5	10/6/2022	0.3	0.723	1.58	7.48	0.119	1.58	67.8	<0.243	<0.30	6.27	8.61	6.73	<0.315	0.179	27.6
EX08@10	10	10/5/2022	0.3	0.582	0.874	7.78	<0.0100	1.58	42.4	<0.218	<0.30	3.68	5.25	4.76	<0.283	0.0222	15.7
EX09@5	5	10/6/2022	0.4	0.677	2.06	7.76	0.210	1.75	74.6	<0.243	<0.30	7.42	9.90	7.49	<0.315	0.153	31.7
EX09@10	10	10/5/2022	6.9	0.596	1.99	7.77	0.0333	1.42	53.1	<0.222	<0.30	4.00	4.63	4.96	<0.289	<0.0222	15.9
EX10@5	5	10/6/2022	0.0	0.900	2.57	7.67	0.117	1.57	51.6	<0.232	<0.30	5.50	7.01	5.76	<0.302	0.125	24.8
EX10@10	10	10/5/2022	0.0	2.01	1.18	7.77	0.0458	1.05	71.2	<0.236	<0.30	3.98	3.71	4.69	<0.307	<0.0236	15.4
EX11@5	5	10/6/2022	0.0	0.547	1.69	7.67	<0.0100	1.90	85.9	<0.245	<0.30	7.23	10.6	7.80	<0.319	0.183	30.4
EX11@10	10	10/5/2022	1.3	1.97	0.903	7.79	0.0119	1.17	59.2	<0.244	<0.30	4.73	5.17	5.87	<0.317	<0.0244	20.2
EX12@5	5	10/6/2022	0.3	0.333	0.554	7.79	0.0946	1.63	58.3	<0.237	<0.30	5.71	8.37	6.33	<0.308	0.140	26.5
EX12@10	10	10/5/2022	2.8	0.986	0.676	7.88	<0.0100	1.31	72.7	<0.238	<0.30	4.12	4.66	5.50	<0.309	<0.0238	18.0
EX13@5	5	10/6/2022	1.3	0.628	1.53	7.74	0.123	1.72	99.2	0.252	<0.30	7.68	10.3	7.93	<0.308	0.145	31.8
EX13@10	10	10/5/2022	3.0	0.449	1.40	7.71	0.0694	1.72	149	0.339	<0.30	7.53	10.1	8.10	<0.321	0.0722	28.0
EX14@14	14	10/5/2022	0.0	0.676	1.39	7.81	0.0219	1.29	16.5	<0.245	<0.30	3.81	4.31	4.20	<0.319	<0.0245	14.9
EX15@14	14	10/5/2022	0.0	0.994	1.16	7.73	0.0559	1.34	23.4	<0.235	<0.30	4.02	5.03	4.68	<0.306	<0.0235	17.2
EX17@2.5	2.5	10/6/2022	1.3	0.503	5.99	7.93	0.222										





TABLE 1
Mershon Pad Facility Closure, Weld County, CO
Soil Analytical Results Summary Table - Inorganics

Sample Information				Soil Suitability for Reclamation				Metals in Soils									
Sample ID	Depth	Sample Date	PID Field Screening	EC	SAR	pH	Boron	Arsenic	Barium	Cadmium	Chromium (VI)	Copper	Lead	Nickel	Selenium	Silver	Zinc
Units -->	ft-bgs	mm/dd/yyyy	ppm	mmhos/cm	Unitless	Unitless	mg/l	mg/kg									
COGCC RSSL -->				<4	<6	6.0 - 8.3	2	0.68	15000	71	0.3	3100	400	1500	390	390	23000
COGCC GWSSL -->				<4	<6	6.0 - 8.3	2	0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
1.25x Average Background Level				NA				5.46	116	NA	NA	NA	NA	NA	1.88	NA	NA
Max Background Level All Samples				NA				9.67	275	NA	NA	NA	NA	NA	NA	NA	NA
Excavation 2 (Historical Remediation)																	
2EX01@14	14	10/6/2022	0.4	1.36	25.7	8.70	1.60	3.06	58.2	<0.244	<0.30	4.77	4.15	6.29	0.493	<0.0244	21.0
2EX02@14	14	10/7/2022	0.2	1.73	1.56	7.77	0.0476	1.50	19.5	<0.232	<0.30	3.95	4.44	4.44	<0.301	<0.0232	16.2
2EX03@6	6	10/10/2022	1.8	0.789	2.40	8.00	0.153	1.69	114	<0.248	<0.30	7.84	11.8	8.05	<0.323	0.0686	35.1
2EX03@12	12	10/10/2022	2.7	0.709	1.78	8.00	0.0668	2.61	37.1	0.228	<0.30	5.93	6.63	6.21	<0.281	0.0338	21.6
2EX04@14	14	10/10/2022	0.0	0.638	3.67	8.04	0.0831	1.41	20.5	<0.235	<0.30	3.66	4.33	4.25	<0.306	<0.0235	15.5
2EX05@6	6	10/10/2022	1.0	0.745	1.46	8.01	0.148	1.44	93.6	0.278	<0.30	8.24	10.6	7.30	<0.305	<0.0653	33.1
2EX05@12	12	10/10/2022	0.0	1.70	1.05	7.87	0.0364	1.54	31.1	<0.217	<0.30	3.65	4.38	3.69	<0.282	<0.0217	13.9
2EX06@6	6	10/10/2022	0.0	1.74	0.853	7.89	0.102	1.64	76.3	<0.250	<0.30	6.00	8.99	6.84	<0.325	0.0540	28.1
2EX06@12	12	10/10/2022	0.0	0.506	0.600	7.74	0.136	1.25	84.9	0.289	<0.30	8.15	10.0	6.78	<0.318	0.0543	29.7
2EX07@6	6	10/11/2022	0.0	0.682	0.881	7.54	0.187	1.91	76.8	<0.251	<0.30	6.29	8.79	7.13	<0.326	0.140	29.8
2EX07@12	12	10/11/2022	0.8	0.363	0.934	8.06	0.0246	1.31	50.9	<0.219	<0.30	3.49	4.10	4.45	<0.285	<0.0223	13.4
2EX08@6	6	10/11/2022	0.0	0.655	0.998	7.61	0.0776	1.53	61.8	<0.222	<0.30	6.59	8.01	6.10	<0.289	0.139	26.3
2EX08@12	12	10/11/2022	2.7	0.396	0.221	8.17	0.0264	1.51	52.6	<0.227	<0.30	4.34	5.64	5.24	<0.295	<0.0227	18.2
2EX09@6	6	10/12/2022	0.0	0.990	1.07	7.45	0.155	1.99	95.6	<0.257	<0.30	8.46	12.2	8.72	<0.334	0.169	36.1
2EX09@12	12	10/12/2022	48.5	0.682	1.06	8.05	<0.0100	1.70	18.4	<0.209	<0.30	3.41	3.93	3.88	<0.272	0.0272	14.0
2EX10@6	6	10/12/2022	0.0	1.26	1.68	7.71	0.341	1.74	78.1	<0.228	<0.30	6.74	9.88	7.30	<0.296	0.144	31.8
2EX10@12	12	10/12/2022	0.0	1.23	7.10	8.07	0.391	1.09	345	<0.236	<0.30	6.85	5.95	6.37	<0.307	0.0383	25.5
2EX11@6	6	10/12/2022	0.0	1.91	3.00	7.78	0.309	1.01	271	<0.215	<0.30	5.12	4.55	5.03	<0.280	0.110	20.9
2EX11@12	12	10/12/2022	2.8	3.06	3.42	7.69	0.263	0.972	342	<0.227	<0.30	6.61	5.92	6.23	<0.295	0.0386	23.3
2EX12@6	6	10/12/2022	38.7	0.551	1.23	7.53	0.120	1.76	55.4	<0.239	<0.30	5.82	6.65	5.97	<0.311	0.119	23.6
2EX12@12	12	10/12/2022	8.1	0.890	1.39	7.81	0.0687	1.68	96.7	<0.249	<0.30	7.70	9.95	8.03	<0.324	0.0574	32.2
2EX13@6	6	10/12/2022	0.0	1.09	1.44	7.56	0.194	1.60	110	<0.244	<0.30	7.30	9.75	7.57	<0.318	0.147	31.0
2EX13@12	12	10/12/2022	5	1.06	1.62	7.95	0.0656	1.75	87.7	<0.240	<0.30	7.09	8.51	7.52	<0.312	0.0518	29.8
2EX14@6	6	10/12/2022	2.6	0.530	1.49	7.71	0.149	1.75	81.1	<0.246	<0.30	6.81	9.83	7.46	<0.320	0.136	30.4
2EX14@12	12	10/12/2022	9.2	0.881	1.69	7.92	<0.0100	2.49	32.4	<0.222	<0.30	4.20	4.96	7.76	<0.289	0.0227	15.2
2EX18@6	6	10/12/2022	4.7	0.408	1.14	7.67	0.122	1.77	70.9	<0.244	<0.30	7.05	8.84	7.19	<0.317	0.137	30.2
2EX18@12	12	10/12/2022	9.9	0.626	1.02	7.87	0.0179	1.97	80.3	<0.242	<0.30	6.80	8.64	7.36	<0.315	0.0499	28.7
2EX19@14	14	10/12/2022	0.2	1.00	2.22	7.95	<0.0100	1.40	72.0	<0.231	<0.30	4.88	4.98	5.42	<0.300	0.0268	19.3
2EX20@14	14	10/12/2022	0.2	0.508	1.44	8.05	0.0165	1.25	28.4	<0.241	<0.30	4.21	4.45	4.87	<0.314	<0.0241	17.7
2EX21@14	14	10/12/2022	0.0	0.468	1.10	8.08	<0.0100	1.31	51.0	<0.237	<0.30	4.20	4.62	4.66	<0.308	0.0237	17.5
2EX15@2.5	2.5	10/12/2022	0.0	0.592	1.03	7.96	0.0411										
2EX22@15	15	10/19/2022	2.9	0.811	4.26	8.07	0.0317	1.38	37.3	<0.240	<0.30	3.92	4.06	4.84	<0.312	0.236	17.5
2EX23@6	6	10/21/2022	0.0	0.849	1.37	7.96	0.0557	4.70	83.5	<0.235	<0.30	7.32	8.32	6.65	<0.306	0.249	30.6
2EX23@12	12	10/21/2022	5.5	2.10	0.875	7.66	0.0421	6.96	98.6	<0.251	<0.30	5.91	6.43	6.70	<0.326	0.264	25.6
2EX24@6	6	10/21/2022	1.6	0.759	1.40	8.08	0.0424	6.09	82.0	<0.247	<0.30	7.73	8.97	8.03	<0.321	0.276	33.6
2EX24@12	12	10/21/2022	1.5	2.89	0.535	7.63	0.0301	4.69	42.6	<0.223	<0.30	3.97	3.85	3.87	<0.290	0.222	16.3
2EX25@6	6	10/21/2022	1.5	0.636	1.38	8.16	0.0584	4.09	52.3	<0.231	<0.30	7.12	7.36	7.06	<0.301	0.252	29.9
2EX25@12	12	10/21/2022	41.7	0.691	0.938	8.14	0.0238	5.04	40.8	<0.217	<0.30	4.40	4.73	4.73	<0.282	0.242	17.2
2EX26@6	6	10/21/2022	2.5	0.680	1.33	8.10	0.0457	4.79	70.0	0.265	<0.30	8.26	9.06	7.13	<0.312	0.269	34.6
2EX26@12	12	10/21/2022	96.1	0.920	1.20	7.91	0.0791	6.12	89.5	0.285	<0.30	9.01	10.3	8.90	<0.317	0.299	37.4
2EX27@6	6	10/21/2022	2.5	0.566	1.38	8.14	0.0375	3.93	46.1	<0.240	<0.30	6.37	6.08	8.76	<0.312	0.261	28.8
2EX27@12	12	10/21/2022	167.7	2.82	0.606	7.75	<0.0100	4.61	46.1	<0.219	<0.30	4.05	4.36	4.44	<0.284	0.231	16.4
2EX28@6	6	10/21/2022	1.6	0.626	1.23	8.18	0.0533	4.51	55.0	<0.231	<0.30	5.96	5.42	5.93	<0.300	0.250	23.2
2EX28@12	12	10/21/2022	4.1	2.78	0.572	7.71	0.0222	4.64	44.9	<0.237	<0.30	4.61	4.34	5.39	<0.308	0.243	19.6
2EX29@6	6	10/21/2022	2.6	0.794	1.35	8.08	0.0475	7.54	81.1	0.257	<0.30	8.54	8.70	8.73	<0.315	0.297	34.6
2EX29@12	12	10/21/2022	1.9	1.15	0.880	7.95	0.0494	5.11	58.1	<0.227	<0.30	6.50	5.46	5.74	<0.295	0.242	23.6





TABLE 1
Mershon Pad Facility Closure, Weld County, CO
Soil Analytical Results Summary Table - Inorganics

Sample Information				Soil Suitability for Reclamation				Metals in Soils									
Sample ID	Depth	Sample Date	PID Field Screening	EC	SAR	pH	Boron	Arsenic	Barium	Cadmium	Chromium (VI)	Copper	Lead	Nickel	Selenium	Silver	Zinc
Units -->	ft-bgs	mm/dd/yyyy	ppm	mmhos/cm	Unitless	Unitless	mg/l	mg/kg									
COGCC RSSL -->				<4	<6	6.0 - 8.3	2	0.68	15000	71	0.3	3100	400	1500	390	390	23000
COGCC GWSSL -->				<4	<6	6.0 - 8.3	2	0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
1.25x Average Background Level				NA				5.46	116	NA	NA	NA	NA	NA	1.88	NA	NA
Max Background Level All Samples				NA				9.67	275	NA	NA	NA	NA	NA	NA	NA	NA
Excavation 3 (Separator Dump Line)																	
WC01@5	5	9/27/2022	1390	0.807	3.76	8.15	0.414	8.90	109	<0.248	<0.30	14.7	12.6	15.6	1.13	0.0699	65.2
3EX01@13	13	10/13/2022	37.2	1.43	1.02	7.72	<0.0100	1.59	27.8	<0.232	<0.30	4.34	3.93	4.24	<0.302	<0.0232	15.8
3EX02@13	13	10/13/2022	36.4	1.13	0.885	7.71	<0.0100	1.41	26.5	<0.243	<0.30	4.79	5.71	5.16	<0.315	<0.0243	20.7
3EX03@6	6	10/13/2022	2.4	0.745	1.26	7.81	0.0146	1.80	86.0	<0.242	<0.30	6.90	10.6	7.90	<0.315	0.0490	32.3
3EX03@11	11	10/13/2022	2.9	1.76	0.729	7.69	<0.0100	1.72	27.1	<0.215	<0.30	3.94	3.90	3.94	<0.279	<0.0215	13.5
3EX04@13	13	10/13/2022	2.5	1.56	1.07	7.35	<0.0100	1.78	44.0	<0.238	<0.30	4.24	4.58	5.02	<0.310	<0.0238	17.7
3EX05@6	6	10/14/2022	0.3	0.537	0.925	7.88	<0.0100	1.60	81.9	<0.239	<0.30	6.52	9.41	7.48	<0.310	0.0449	30.2
3EX05@11	11	10/14/2022	0.0	0.582	1.10	8.06	<0.0100	1.32	23.0	<0.209	<0.30	2.63	2.66	2.60	<0.272	<0.0209	9.45
3EX06@6	6	10/14/2022	3.1	0.530	1.11	7.97	<0.0100	1.51	75.9	<0.238	<0.30	6.86	10.3	7.63	<0.310	0.0453	31.4
3EX06@11	11	10/14/2022	28.2	2.85	0.699	7.77	<0.0100	1.79	60.9	<0.229	<0.30	4.72	5.61	5.88	<0.298	<0.0229	20.5
3EX07@6	6	10/17/2022	1.5	0.666	0.972	8.28	0.0638	5.87	72.2	<0.239	<0.30	6.51	8.21	6.86	<0.311	0.0497	28.1
3EX07@11	11	10/17/2022	2.7	0.784	1.04	7.55	0.0778	4.56	76.8	<0.249	<0.30	8.04	9.60	7.29	<0.324	0.0659	33.1
3EX08@6	6	10/17/2022	1.7	0.879	2.02	7.78	0.0276	4.97	39.3	<0.233	<0.30	6.10	7.36	6.38	<0.303	0.0484	26.3
3EX08@11	11	10/17/2022	3.8	2.88	0.583	7.68	<0.0100	4.70	49.0	<0.232	<0.30	4.65	4.86	5.55	<0.301	0.0232	18.4
3EX09@6	6	10/17/2022	3.9	0.727	1.04	7.86	0.0121	4.37	68.8	<0.234	<0.30	5.18	6.55	5.91	<0.304	0.0332	24.5
3EX09@11	11	10/17/2022	1.8	0.474	0.608	7.87	<0.0100	5.42	25.0	<0.209	<0.30	3.62	3.35	3.32	<0.272	<0.0209	12.3
3EX10@6	6	10/18/2022	1.7	0.764	1.44	7.78	0.0961	1.52	55.0	<0.228	<0.30	5.57	6.67	6.07	<0.296	0.454	25.4
3EX10@11	11	10/18/2022	5.2	0.764	1.09	8.03	0.0961	2.01	30.5	<0.217	<0.30	3.34	3.57	3.53	<0.282	0.431	13.3
3EX11@6	6	10/18/2022	0	0.627	1.25	7.87	0.109	1.74	55.7	<0.241	<0.30	6.47	6.61	6.60	<0.314	0.393	28.0
3EX11@11	11	10/18/2022	0	1.21	1.13	7.81	0.112	1.84	75.1	<0.237	<0.30	6.64	6.40	7.22	<0.308	0.463	25.4
3EX12@13	13	10/18/2022	0.3	0.863	1.36	7.72	0.0809	1.32	26.1	<0.230	<0.30	3.54	3.27	4.13	<0.299	0.616	14.2
3EX13@13	13	10/18/2022	0.5	0.857	1.23	7.74	0.103	1.19	21.4	<0.236	<0.30	2.75	2.65	3.03	<0.307	0.439	12.2
3EX14@6	6	10/18/2022	1.5	1.12	1.01	7.80	0.113	1.66	52.6	<0.241	<0.30	5.51	6.34	5.69	<0.313	0.739	24.7
3EX14@11	11	10/18/2022	1.8	0.972	1.04	7.85	0.0940	1.64	56.2	<0.233	<0.30	5.06	4.86	5.75	<0.303	0.744	20.2
3EX15@6	6	10/19/2022	0.0	0.424	1.03	7.73	0.172	1.57	54.5	<0.210	<0.30	5.14	6.27	5.5	<0.273	0.0745	23.2
3EX15@11	11	10/19/2022	0.0	1.01	0.808	7.73	0.0681	1.91	33.8	<0.224	<0.30	3.01	3.01	3.57	<0.291	0.0841	12.8
3EX19@2.5	2.5	10/19/2022	0.0	0.924	1.27	7.90	0.205										
3EX20@13	13	10/19/2022	0.0	0.983	1.30	7.64	0.0772	1.71	35.6	<0.234	<0.30	3.30	3.72	4.06	<0.304	0.121	16.2

Notes:

Waste Characterization Sample

Removed by Excavation

PID - Photo Ionization Detector

EC - Electrical Conductivity

SAR - Sodium adsorption ratio

ft-bgs - feet below ground surface

ppm - parts per million

not analyzed

Red- Above COGCC Table 915-1 GWSSL

COGCC - Colorado Oil and Gas Conservation Commission

RSSL - Residential Soil Screening Level

GWSSL - Groundwater Soil Screening Level

mmhos/cm - millimhos per centimeter

mg/l - milligrams per liter

mg/kg - milligrams per kilogram

< - indicates result is below the laboratory reporting limit

Black- Laboratory reporting limit is higher than GWSSL

Green - value is approximate to or less than highest reported background level



TABLE 2
Analytical Results Summary: Produced Water Sample
Kodak South FD Wells: Niobrara and Codell, Weld County, CO

Sample Information			Well Information										
Sample ID	Sample Location	Sample Date	Well Name	Formation	Arsenic	Barium	Cadmium	Copper	Lead	Nickel	Selenium	Silver	Zinc
Units -->	ft-bgs	mm/dd/yyyy	NA	NA	mg/l								
COGCC Table 915-1 Standard in Soils (mg/kg) ¹			NA	NA	0.29	82	0.38	46	14	26	0.26	0.8	370
Average			NA	NA	0.00153	9.795	0.00022	0.02362	0.00190	0.01195	0.00238	0.00010	0.82500
PW01	Separator dump line	4/21/2023	Kodak South FD #25-280HN	Niobrara	0.00189	12.600	0.000350	0.0451	0.00190	0.0177	<0.00100	0.0000950	1.450
25-241HC	Separator dump line	6/8/2023	Kodak South FD #25-241HC	Codell	0.00117	6.990	0.0000800	0.00214	<0.000500	0.00620	0.00238	0.000100	0.200

ft-bgs - feet below ground surface

µg/l - micrograms per liter

mg/l - milligrams per liter

mg/kg - milligrams per kilogram

< - indicates result is less than laboratory reporting limit

1 - For basis of comparison, 1 liter is approximate to 1 kilogram

**ATTACHMENT A
SOIL BORING LOGS**



PDC Energy, Inc.
4000 Burlington Ave
Evans, CO 80620

Mershon Pad 1
BKG02



Date Started : 09/28/2023
 Detector : MiniRae 3000 PID
 Hole Diameter : 3.25-inch
 Drilling Method : Direct Push
 Sampling Method : Continuous
 Drilling Company : DrillPro Services Inc
 Latitude : 40.452744
 Longitude : -104.857111
 Project Number : 022-089
 Logged By : Ryan Finley

Depth in Feet	USCS	GRAPHIC	DESCRIPTION	Moisture	Fines (%)	Structure	PID (ppm)	Staining	Recovery (in)	Lab Sample ID	
0	SM		0-1ft: SANDY SILT, dark brown, very fine grained to fine grained, dry & crumbly, loose, no plasticity. Topsoil with roots.	Dry	90	Loose	NA	N	50	BKG02@5-7	
	SM		1-6ft: SILTY SAND, light brown, very fine grained to fine grained, fining down, dry & crumbly, low dense, no plasticity.	Dry	90	Crumbly	NA	N	100		
5	ML		6-9ft: CLAYEY SILT, medium brown, very fine grained, medium dense, low plasticity, slightly moist at 8-9ft.	Dry	95	Medium	NA	N	100		
10	SW		9-11: SAND, Well Graded, coarsing down, very fine to medium grained, coarse gravel layer <2" at 10.5ft, low dense, no plasticity.	Moist	75	Low	NA	N	100		
	GW		11-13ft: GRAVEL, Well Graded, mottled medium brown silty sand layered with light grey to whitish gravelly sand, loose, no plasticity, very moist.	Dry	50	Loose	NA	N	75		BKG02@10-12
	SC		13-14.5ft: CLAYEY SAND, yellowish brown, very fine grained to fine grained, medium dense, medium plasticity, moist.	Moist	95	Medium	NA	N	100		
15	CH		14.5-15: SILTY CLAY, yellowish brown, very fine grained to medium dense, high plasticity, moist.	Moist	100	Medium	NA	N	100		BKG02@13-15
Borehole was abandoned with 3 bags of 10-20 sand and 1 bag of hydrated bentonite. Native material to surface.											



PDC Energy, Inc.
4000 Burlington Ave
Evans, CO 80620

Mershon Pad 1
BKG03



Date Started : 09/28/2023
 Detector : MiniRae 3000 PID
 Hole Diameter : 3.25-inch
 Drilling Method : Direct Push
 Sampling Method : Continuous
 Drilling Company : DrillPro Services Inc
 Latitude : 40.452344
 Longitude : -104.857289
 Project Number : 022-089
 Logged By : Ryan Finley

Depth in Feet	USCS	GRAPHIC	DESCRIPTION	Moisture	Fines (%)	Structure	PID (ppm)	Staining	Recovery (in)	Lab Sample ID
0	SM		0-1ft: SANDY SILT, dark brown, very fine grained to fine grained, dry & crumbly, loose, no plasticity. Topsoil with roots.	Dry	90	Loose	NA	N	50	BKG03@5-7
1-8	SM		1-8ft: SILTY SAND, light brown, very fine grained to fine grained, fining down, dry & crumbly, low dense, no plasticity.	Dry	90	Crumbly	NA	N	100	
8-9	SM		8-9ft: SILTY SAND, light grey, very fine grained to fine grained, dry & crumbly, low dense, no plasticity, no odor.	Dry	95	Crumbly	1.9	N	100	
9-11.5	ML		9-11.5ft: CLAYEY SILT, medium brown, very fine grained, medium dense, low plasticity, slightly moist at 8.5ft	Moist	95	Medium	NA	N	100	BKG03@10-12
11.5-13	ML		11.5-13ft: CLAYEY SILT, grey, very fine grained, medium dense, low plasticity grading to no plasticity, moist, no odor.	Moist	95	Medium	2.3	N	100	BKG03@13-15
13-14	SC		13-14ft: CLAYEY SAND, light brown, very fine grained to fine grained, medium dense, medium plasticity, moist.	Moist	90	Medium	NA	N	100	
14-15	SW		14-15: SAND, Well Graded, sharp contact with above, mottled red and yellowish brown, very fine to medium grained, medium dense, no plasticity, slightly moist.	Low	75	Medium	NA	N	100	
15	Borehole was abandoned with 3 bags of 10-20 sand and 1 bag of hydrated bentonite. Native material to surface.									



PDC Energy, Inc.
4000 Burlington Ave
Evans, CO 80620

Mershon Pad 1
BKG04



Date Started : 09/28/2023
 Detector : MiniRae 3000 PID
 Hole Diameter : 3.25-inch
 Drilling Method : Direct Push
 Sampling Method : Continuous
 Drilling Company : DrillPro Services Inc
 Latitude : 40.452385
 Longitude : -104.857866
 Project Number : 022-089
 Logged By : Ryan Finley

Depth in Feet	USCS	GRAPHIC	DESCRIPTION	Moisture	Fines (%)	Structure	PID (ppm)	Staining	Recovery (in)	Lab Sample ID
0	NR		0-1ft: NO RECOVERY							
1-5	SM		1-5.5ft: SILTY SAND, light brown, very fine grained to fine grained, fining down, dry & crumbly, low dense, no plasticity.	Dry	90	Crumbly	NA	N	50	
5.5-8.5	SC		5.5-8.5ft: SANDY CLAY, medium brown, very fine grained to fine grained, medium dense, medium plasticity, slightly moist at 6ft	Moist	90	Medium	NA	N	100	BKG04@5-7
8.5-10	ML		8.5-10ft: CLAYEY SILT, light brown, very fine grained, medium dense, low plasticity, moist	Moist	95	Medium	NA	N	100	
10	SC		10-10.5ft: SANDY CLAY, light brown, very fine grained, medium plasticity, medium dense, moist.	Moist	90	Medium	NA	N	100	BKG04@10-12
10.5-11	GW		10.5-11ft: GRAVEL, Well Graded, yellowish brown, loose.	Moist	60	Loose	NA	N	100	
11-12	ML		11-12ft: CLAYEY SILT, tan to medium brown, very fine grained, medium dense, low plasticity							
12-13.5	NR		12-13.5ft: NO RECOVERY	Moist	95	Medium	NA	N	50	
13.5-14	SC		13.5-14ft: SANDY CLAY, light brown, very fine grained, medium plasticity, medium dense, moist.	Moist	90	Medium	NA	N	25	BKG04@13-15
13.5-15	SW		13.5-15ft: SAND, Well Graded, mottled red and yellowish brown, very fine to medium grained, medium dense, no plasticity, slightly moist.	Moist	75	Medium	NA	N	100	
15			Borehole was abandoned with 3 bags of 10-20 sand and 1 bag of hydrated bentonite. Native material to surface.							



PDC Energy, Inc.
4000 Burlington Ave
Evans, CO 80620

Mershon Pad 1
BKG05



Date Started : 09/28/2023
 Detector : MiniRae 3000 PID
 Hole Diameter : 3.25-inch
 Drilling Method : Direct Push
 Sampling Method : Continuous
 Drilling Company : DrillPro Services Inc
 Latitude : 40.452591
 Longitude : -104.858203
 Project Number : 022-089
 Logged By : Ryan Finley

Depth in Feet	USCS	GRAPHIC	DESCRIPTION	Moisture	Fines (%)	Structure	PID (ppm)	Staining	Recovery (in)	Lab Sample ID
0	NR		0-1ft: NO RECOVERY							
1-7	SM		1-7ft: SILTY SAND, light brown, very fine grained to fine grained, fining down, dry & crumbly, low dense, no plasticity.	Dry	90	Loose	NA	N	85	BKG05@5-7
7-8	ML		7-8ft: CLAYEY SILT, medium brown, very fine grained, medium dense, low plasticity, slightly moist	Moist	95	Medium	NA	N	75	
8-10	NR		8-10ft: NO RECOVERY	Moist	50	Loose	NA	N	100	
10-10.75	ML		10-10.75ft: CLAYEY SILT, medium brown, low plasticity	Wet	95	Medium	NA	N	100	BKG05@10-12
10.75-11	GW		10.75-11ft: GRAVEL, Well Graded, light gray loose							
11-13	SC		11-13ft: SANDY CLAY, medium brown, very fine grained to fine grained, medium plasticity, medium dense, very moist to wet.							
13-15	SW		13-15: SAND, Well Graded, sharp contact with above, mottled red and yellowish brown, very fine to medium grained, medium dense, no plasticity, slightly moist.	Moist	75	Medium	NA	N	100	BKG05@13-15
15			Borehole was abandoned with 3 bags of 10-20 sand and 1 bag of hydrated bentonite. Native material to surface.							



PDC Energy, Inc.
4000 Burlington Ave
Evans, CO 80620

Mershon Pad 1
BKG06



Date Started : 09/28/2023
 Detector : MiniRae 3000 PID
 Hole Diameter : 3.25-inch
 Drilling Method : Direct Push
 Sampling Method : Continuous
 Drilling Company : DrillPro Services Inc
 Latitude : 40.452969
 Longitude : -104.858239
 Project Number : 022-089
 Logged By : Ryan Finley

Depth in Feet	USCS	GRAPHIC	DESCRIPTION	Moisture	Fines (%)	Structure	PID (ppm)	Staining	Recovery (in)	Lab Sample ID
0	SM		0-1ft: SANDY SILT, Topsoil with roots, dry and crumbly, no plasticity.							
	SM		1-7ft: SILTY SAND, light brown, very fine grained to fine grained, fining down, dry & crumbly, low dense, no plasticity.	Dry	90	Crumbly	NA	N	90	
	ML		7-8ft: CLAYEY SILT, medium brown, very fine grained, medium dense, low plasticity, dry							
	NR		8-10ft: NO RECOVERY.	Moist	95	Medium	NA	N	100	BKG06@5-7
	ML		10-11ft: CLAYEY SILT, medium brown, very fine grained, medium dense, low plasticity, slightly moist at 10.5ft	Moist	50	Medium	NA	N	100	BKG06@10-12
	SC		11-11.5ft: SANDY CLAY, medium brown, medium plasticity, medium dense, very moist to wet.							
	SW		11.5-15: SAND, Well Graded, sharp contact with above, mottled red and yellowish brown, very fine to medium grained, medium dense, no plasticity, moist, some minor layers of low plasticity	Wet	95	Medium	NA	N	75	BKG06@13-15
15			Borehole was abandoned with 3 bags of 10-20 sand and 1 bag of hydrated bentonite. Native material to surface.							



PDC Energy, Inc.
4000 Burlington Ave
Evans, CO 80620

Mershon Pad 1
BKG07



Date Started : 09/28/2023
 Detector : MiniRae 3000 PID
 Hole Diameter : 3.25-inch
 Drilling Method : Direct Push
 Sampling Method : Continuous
 Drilling Company : DrillPro Services Inc
 Latitude : 40.453353
 Longitude : -104.858244
 Project Number : 022-089
 Logged By : Ryan Finley

Depth in Feet	USCS	GRAPHIC	DESCRIPTION	Moisture	Fines (%)	Structure	PID (ppm)	Staining	Recovery (in)	Lab Sample ID
0	NR		0-2ft: NO RECOVERY							
2-6ft	SM		2-6ft: SILTY SAND, light brown, very fine grained to fine grained, fining down, dry & crumbly, high expansion cracking at depth, low dense, no plasticity.	Dry	90	Crumbly	NA	N	90	
6-11ft	ML		6-11ft: CLAYEY SILT, medium brown, very fine grained, medium dense, low plasticity, slightly moist.	Moist	95	Medium	NA	N	100	BKG07@5-7
11-12ft	SW		11-12ft: Well Graded, mottled red and yellowish							
12-13.5ft	NR		12-13.5ft: NO RECOVERY	Moist	75	Medium	NA	N	50	BKG07@10-12
13.5-14ft	GW		13.5-14ft: GRAVEL, Well Graded, yellowish brown, dry.							
14-15ft	SW		14-15: SAND, Well Graded, mottled red and yellowish brown, very fine to medium grained, medium dense, no plasticity, moist, some minor layers of low plasticity. Missing recovery from 12-13ft, some loose gravel at top of sample from 13-15ft.	Moist	85	Medium	NA	N	100	BKG07@13-15
Borehole was abandoned with 3 bags of 10-20 sand and 1 bag of hydrated bentonite. Native material to surface.										



PDC Energy, Inc.
4000 Burlington Ave
Evans, CO 80620

Mershon Pad 1
BKG08



Date Started : 09/28/2023
 Detector : MiniRae 3000 PID
 Hole Diameter : 3.25-inch
 Drilling Method : Direct Push
 Sampling Method : Continuous
 Drilling Company : DrillPro Services Inc
 Latitude : 40.453480
 Longitude : -104.857872
 Project Number : 022-089
 Logged By : Ryan Finley

Depth in Feet	USCS	GRAPHIC	DESCRIPTION	Moisture	Fines (%)	Structure	PID (ppm)	Staining	Recovery (in)	Lab Sample ID
0	NR		0-2ft: NO RECOVERY. 50% recovery in 0-4ft sample. Some darker brown silty sand, dry and crumbly, with visible roots at the top of sample sleeve.						0	
5	SM		2-9.5ft: SILTY SAND, light brown, very fine grained to fine grained, fining down, dry & crumbly, low dense, no plasticity.	Dry	85	Crumbly	NA	N	100	BKG08@5-7
10	SW		9.5-10ft: SAND, Well Graded, light gray to white, vfg-mg, gravel concentrated at ~10.5ft, crumbly to low dense, no plasticity, dry.	Dry	65	Low	NA	N	100	
	SW		10-12: SAND, Well Graded, mottled red and yellowish brown, very fine to medium grained, medium dense, no plasticity, moist, some minor layers of low plasticity.	Moist	85	Medium	NA	N	100	BKG08@10-12
	NR		12-13ft: NO RECOVERY. 50% recovery in the 12-15ft sample. Some moist material from 12.5 to 14ft appears contiguous with 11-12ft material.						0	
	GW		13-13.5ft: GRAVEL, Well Graded, light gray to white, interbedded with brown SW. Low moist.	Dry	50	Crumbly	NA	N	100	
	SC		13.5-14ft: CLAYEY SAND, yellowish brown, vfg-fg, medium dense, medium plasticity, wet.	Wet	85	Medium	NA	N	100	BKG08@13-15
	SW		14-15ft: SAND, Well Graded, mottled red/yellowish brown, vfg-mg, medium dense, no plasticity, moist	Moist	65	Medium	NA	N	100	
15			Borehole was abandoned with 3 bags of 10-20 sand and 1 bag of hydrated bentonite. Native material to surface.							



PDC Energy, Inc.
4000 Burlington Ave
Evans, CO 80620

Mershon Pad 1
BKG09



Date Started : 09/28/2023
 Detector : MiniRae 3000 PID
 Hole Diameter : 3.25-inch
 Drilling Method : Direct Push
 Sampling Method : Continuous
 Drilling Company : DrillPro Services Inc
 Latitude : 40.453367
 Longitude : -104.857483
 Project Number : 022-089
 Logged By : Ryan Finley

Depth in Feet	USCS	GRAPHIC	DESCRIPTION	Moisture	Fines (%)	Structure	PID (ppm)	Staining	Recovery (in)	Lab Sample ID
0	SM		0-1ft: SILTY SAND, medium brown, vfg-fg, dry, loose, no plastic	Dry	85	Loose	NA	N	75	BKG09@5-7
	SM		1-8ft: SILTY SAND, light brown, very fine grained to fine grained, dry & crumbly, expansion cracks throughout, low dense, no plasticity.	Dry	85	Crumbly	NA	N	100	
	NR		8-10ft: NO RECOVERY.						0	BKG09@10-12
10	GW		10-10.5: GRAVEL, Well Graded, cobble, brown and white, dry.	Dry	50	Medium	NA	N	75	
	SW		10.5-12ft: SAND, Well Graded, mottled yellowish brown, vfg-mg, gravel concentrated at ~10.5ft, crumbly to low dense, no plasticity, dry.	Moist	65	Medium	NA	N	100	
	NR		12-13ft: NO RECOVERY						0	
	SW		13-15ft: SAND, Well Graded, mottled reddish brown, vfg-mg, some gravel, medium dense, no plasticity, moist	Moist	65	Medium	NA	N	95	BKG09@13-15
15	Borehole was abandoned with 3 bags of 10-20 sand and 1 bag of hydrated bentonite. Native material to surface.									



PDC Energy, Inc.
4000 Burlington Ave
Evans, CO 80620

Mershon Pad 1
BKG10



Date Started : 09/28/2023
 Detector : MiniRae 3000 PID
 Hole Diameter : 3.25-inch
 Drilling Method : Direct Push
 Sampling Method : Continuous
 Drilling Company : DrillPro Services Inc
 Latitude : 40.453189
 Longitude : -104.857243
 Project Number : 022-089
 Logged By : Ryan Finley

Depth in Feet	USCS	GRAPHIC	DESCRIPTION	Moisture	Fines (%)	Structure	PID (ppm)	Staining	Recovery (in)	Lab Sample ID
0	SM		0-6.5ft: SILTY SAND, light brown, very fine grained to fine grained, dry & crumbly, expansion cracks throughout, low dense, no plasticity.	Dry	85	Loose	NA	N	85	BKG10@5-7
6.5	SM		6.5-8ft: SILTY SAND, greyish-tan, very fine grained to fine grained, dry & crumbly, expansion cracks throughout, medium dense, no plasticity.	Dry	85	Crumbly	NA	N	100	
8	NR		8-10ft: NO RECOVERY.						0	BKG09@10-12
10	SW		10-10.5ft: SAND, Well Graded, tan, very fine to medium grained, medium dense, no plasticity, dry.	Dry	65	Medium	NA	N	85	
10.5	GW		10.5-12: GRAVEL, Well Graded, cobble, tan and white, dry.	Dry	50	Medium	NA	N	100	
12	NR		12-13ft: NO RECOVERY						0	
13	SW		13-13.5ft: SAND, Well Graded, light tan, vfg-mg, some gravel, loose, no plasticity, dry	Dry	65	Loose	NA	N	95	BKG09@13-15
13.5	SW		13.5-15ft: SAND, Well Graded, reddish brown, vfg-mg, no plasticity, medium dense, very moist.	Moist	65	Medium	NA	N	100	
15			Borehole was abandoned with 3 bags of 10-20 sand and 1 bag of hydrated bentonite. Native material to surface.							



PDC Energy, Inc.
4000 Burlington Ave
Evans, CO 80620

Mershon Pad 1
BKG11



Date Started : 09/28/2023
 Detector : MiniRae 3000 PID
 Hole Diameter : 3.25-inch
 Drilling Method : Direct Push
 Sampling Method : Continuous
 Drilling Company : DrillPro Services Inc
 Latitude : 40.452973
 Longitude : -104.857020
 Project Number : 022-089
 Logged By : Ryan Finley

Depth in Feet	USCS	GRAPHIC	DESCRIPTION	Moisture	Fines (%)	Structure	PID (ppm)	Staining	Recovery (in)	Lab Sample ID
0			0-8ft: SILTY SAND, light brown, very fine grained to fine grained, dry & crumbly, expansion cracks throughout, low dense, no plasticity.							
5	SM			Dry	85	Low	NA	N	95	BKG11@5-7
8-9	NR		8-9ft: NO RECOVERY.						0	
9-10.5	SW		9-10.5ft: SAND, Well Graded, tan, very fine to medium grained, medium dense, no plasticity, dry.	Dry	65	Medium	NA	N	85	
10.5-12	GW		10.5-12: GRAVEL, Well Graded, cobble, reddish brown and white, dry.	Dry	50	Medium	NA	N	100	BKG11@10-12
12-13	NR		12-13ft: NO RECOVERY						0	
13-13.5	SW		13-13.5ft: SAND, Well Graded, light tan, vfg-mg, some gravel, loose, no plasticity, dry	Dry	50	Loose	NA	N	75	
13.5-15	SW		13.5-15ft: SAND, Well Graded, reddish brown, vfg-mg, no plasticity, medium dense, very moist.	Moist	65	Medium	NA	N	100	BKG11@13-15
15			Borehole was abandoned with 3 bags of 10-20 sand and 1 bag of hydrated bentonite. Native material to surface.							

**ATTACHMENT B
ANALYTICAL REPORTS**

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 09, 2023

Ben Baugh
Entrada Consulting Group
240 Mesa Avenue
Grand Junction., CO 81501

RE: PDC - Mershon

Work Order #2309578

Enclosed are the results of analyses for samples received by Summit Scientific on 09/29/23 16:39. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury
President



Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: PDC - Mershon

Project Number: [none]
 Project Manager: Ben Baugh

Reported:
 10/09/23 10:38

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG07@5-7	2309578-01	Soil	09/28/23 12:42	09/29/23 16:39
BKG07@10-12	2309578-02	Soil	09/28/23 12:45	09/29/23 16:39
BKG07@13-15	2309578-03	Soil	09/28/23 12:47	09/29/23 16:39
BKG08@5-7	2309578-04	Soil	09/28/23 12:53	09/29/23 16:39
BKG08@10-12	2309578-05	Soil	09/28/23 12:57	09/29/23 16:39
BKG08@13-15	2309578-06	Soil	09/28/23 13:03	09/29/23 16:39
BKG09@5-7	2309578-07	Soil	09/28/23 13:12	09/29/23 16:39
BKG09@10-12	2309578-08	Soil	09/28/23 13:16	09/29/23 16:39
BKG09@13-15	2309578-09	Soil	09/28/23 13:18	09/29/23 16:39
BKG10@5-7	2309578-10	Soil	09/28/23 13:24	09/29/23 16:39
BKG10@10-12	2309578-11	Soil	09/28/23 13:28	09/29/23 16:39
BKG10@13-15	2309578-12	Soil	09/28/23 13:32	09/29/23 16:39
BKG11@5-7	2309578-13	Soil	09/28/23 13:37	09/29/23 16:39
BKG11@10-12	2309578-14	Soil	09/28/23 13:39	09/29/23 16:39
BKG11@13-15	2309578-15	Soil	09/28/23 13:43	09/29/23 16:39
BKG02@5-7	2309578-16	Soil	09/28/23 11:30	09/29/23 16:39
BKG02@10-12	2309578-17	Soil	09/28/23 11:35	09/29/23 16:39
BKG02@13-15	2309578-18	Soil	09/28/23 11:40	09/29/23 16:39
BKG03@5-7	2309578-19	Soil	09/28/23 11:45	09/29/23 16:39
BKG03@10-12	2309578-20	Soil	09/28/23 11:50	09/29/23 16:39
BKG03@13-15	2309578-21	Soil	09/28/23 11:55	09/29/23 16:39
BKG04@5-7	2309578-22	Soil	09/28/23 12:00	09/29/23 16:39
BKG04@10-12	2309578-23	Soil	09/28/23 12:05	09/29/23 16:39
BKG04@13-15	2309578-24	Soil	09/28/23 12:10	09/29/23 16:39
BKG05@5-7	2309578-25	Soil	09/28/23 12:15	09/29/23 16:39
BKG05@10-12	2309578-26	Soil	09/28/23 12:20	09/29/23 16:39
BKG05@13-15	2309578-27	Soil	09/28/23 12:25	09/29/23 16:39

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: PDC - Mershon

Project Number: [none]
Project Manager: Ben Baugh

Reported:
10/09/23 10:38

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG06@5-7	2309578-28	Soil	09/28/23 12:28	09/29/23 16:39
BKG06@10-12	2309578-29	Soil	09/28/23 12:33	09/29/23 16:39
BKG06@13-15	2309578-30	Soil	09/28/23 12:37	09/29/23 16:39

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SUMMIT SCIENTIFIC

4653 Table Mountain Drive
Golden, CO 80403
303-277-9310

Lab ID 2309578.1 Page 1 of 2

Client: <u>Entrada Consulting Group</u>		Send Data To:		Send Invoice To:	
Address:		Project Manager: <u>Ben Baugh</u>		Company: <u>PDC</u>	
City/State/Zip: <u>ON FILE</u>		E-Mail: <u>Entrada ? PDC dist. group</u>		Project Name/Location:	
Phone:		Project Name: <u>Meishon</u>		AFE#:	
Sampler Name: <u>Ryan Finley</u>		Project Number:		PO/Billing Codes:	
				Contact:	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested				Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	ARSENIC	BARIUM		
1	BKG07G5-7	9/28/23	1242	1			X			X			X	X		
2	BKG07G10-12		1245													
3	BKG07G13-15		1247													
4	BKG08G5-7		1253													
5	BKG08G10-12		1257													
6	BKG08G13-15		1303													
7	BKG09G5-7		1312													
8	BKG09G10-12		1316													
9	BKG09G13-15		1318													
10	BKG10G5-7		1324													
11	BKG10G10-12		1328													
12	BKG10G13-15		1332													
13	BKG11G5-7		1337													
14	BKG11G10-12		1339													
15	BKG11G13-15	✓	1343	✓			✓			✓		✓	✓			

Relinquished by: <u>[Signature]</u>	Date/Time: <u>9/28/23 1510</u>	Received by: <u>[Signature]</u>	Date/Time: <u>9/28/23 1510</u>	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: <u>[Signature]</u>	Date/Time: <u>9/29/23 1635</u>	Received by: <u>[Signature]</u>	Date/Time: <u>9/29/23 16:39</u>	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by: <u>[Signature]</u>	Date/Time: <u>9/29/23 1635</u>	Received by: <u>[Signature]</u>	Date/Time: <u>9/29/23 16:39</u>	3 Days	Field Temp.	
Temperature Upon Receipt: <u>23.7</u>	Corrected Temperature	IR gun #: <u>2</u>	HNO3 lot #:	Standard	<input checked="" type="checkbox"/> Field Turb.	

SUMMIT SCIENTIFIC

4653 Table Mountain Drive
Golden, CO 80403
303-277-9310

Lab ID 2309578.2 Page 2 of 2

Client: <u>Entrada Consulting Group</u>		Send Data To: Project Manager: <u>Ben Bawgh</u>		Send Invoice To: Company: <u>PDC</u>	
Address: <u>ON FILE</u>		E-Mail: <u>Entrada@PDCdist.group</u>		Project Name/Location:	
City/State/Zip: <u>ON FILE</u>		Project Name: <u>Mershon</u>		AFE#:	
Phone: <u>✓</u>		Project Number:		PO/Billing Codes:	
Sampler Name: <u>Ryan Finley</u>				Contact:	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested				Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Arsenic	Barium		
1	BKG0205-7	9/28/23	1130	1			X			X			X	X		
2	BKG02010-12		1135													
3	BKG02013-15		1140													
4	BKG0305-7		1145													
5	BKG03010-12		1150													
6	BKG03013-15		1155													
7	BKG0405-7		1200													
8	BKG04010-12		1205													
9	BKG04013-15		1210													
10	BKG0505-7		1215													
11	BKG05010-12		1220													
12	BKG05013-15		1225													
13	BKG0605-7		1228													
14	BKG06010-12		1233													
15	BKG06013-15	✓	1237	✓												

Relinquished by: <u>[Signature]</u> Date/Time: <u>9/28/23 1510</u>	Received by: <u>[Signature]</u> Date/Time: <u>9/28/23 1510</u>	TAT Business Days	Field DO	Notes:
		Same Day	Field EC	
Relinquished by: <u>[Signature]</u> Date/Time: <u>9/29/23 1535</u>	Received by: <u>Jay Wald</u> Date/Time: <u>9/29/23 16:39</u>	1 Day	Field ORP	
		2 Days	Field pH	
Relinquished by: _____ Date/Time: _____	Received by: _____ Date/Time: _____	3 Days	Field Temp.	
Temperature Upon Receipt: <u>22.7</u>	Corrected Temperature _____	Standard <input checked="" type="checkbox"/>	Field Turb.	
	IR gun #: <u>2</u>		HNO3 lot #:	

S₂

Sample Receipt Checklist

S2 Work Order# 2309578

Client: POC Entrada Client Project ID: Merston

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other [] Airbill #: []

[X] [] [] [] []

Matrix (Check all that apply) Air [] Soil/Solid [X] Water [] Other []

Temp (°C) 23.7 Thermometer # 2

Table with 5 columns: Yes, No, N/A, Comments (if any). Rows include: If samples require cooling, is the temperature < 6°C? (1), If custody seals are present, are they intact? (1), Are samples due within 48 hours present?, Are water samples with short hold times present?, Is a chain-of-custody (COC) form present and filled out Completely? (1), Is the COC properly relinquished by the client w/ date and time recorded? (1), Were all samples received intact? (1), Was adequate sample volume provided? (1), Does the COC agree with the number and type of sample bottles received? (1), Do the sample IDs on the bottle labels match the COC? (1), For volatiles in water - is there headspace present? If yes, contact client and note in narrative., Are samples preserved that require preservation (excluding cooling)? (1) Note the type of preservative in the comments column - HCl, H2SO4, NaOH, HNO3, etc., If samples are acid preserved for metals, is the pH <= 2? (1) Record the pH in Comments., If dissolved metals are requested, were samples field filtered?, Additional Comments (if any):

(1) If NO, then contact the client before proceeding with analysis and note in case narrative.

John Wald Custodian Printed Name

9/29/23 16:39 Date/Time



Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: PDC - Mershon

Project Number: [none]
 Project Manager: Ben Baugh

Reported:
 10/09/23 10:38

BKG07@5-7
2309578-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **09/28/23 12:42**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	5.05	0.200	mg/kg dry	1	BGJ0172	10/04/23	10/06/23	EPA 6020B	
Barium	114	0.400	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/28/23 12:42**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	85.6		%	1	BGJ0174	10/04/23	10/05/23	Calculation	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: PDC - Mershon

Project Number: [none]
 Project Manager: Ben Baugh

Reported:
 10/09/23 10:38

BKG07@10-12
2309578-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **09/28/23 12:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.09	0.200	mg/kg dry	1	BGJ0172	10/04/23	10/06/23	EPA 6020B	
Barium	112	0.400	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/28/23 12:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	87.0		%	1	BGJ0174	10/04/23	10/05/23	Calculation	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: PDC - Mershon

Project Number: [none]
 Project Manager: Ben Baugh

Reported:
 10/09/23 10:38

BKG07@13-15
2309578-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **09/28/23 12:47**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	6.37	0.200	mg/kg dry	1	BGJ0172	10/04/23	10/06/23	EPA 6020B	
Barium	130	0.400	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/28/23 12:47**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	81.0		%	1	BGJ0174	10/04/23	10/05/23	Calculation	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: PDC - Mershon

Project Number: [none]
 Project Manager: Ben Baugh

Reported:
 10/09/23 10:38

BKG08@5-7
2309578-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **09/28/23 12:53**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.96	0.200	mg/kg dry	1	BGJ0172	10/04/23	10/06/23	EPA 6020B	
Barium	99.4	0.400	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/28/23 12:53**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	91.0		%	1	BGJ0174	10/04/23	10/05/23	Calculation	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: PDC - Mershon

Project Number: [none]
 Project Manager: Ben Baugh

Reported:
 10/09/23 10:38

BKG08@10-12
2309578-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **09/28/23 12:57**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.84	0.200	mg/kg dry	1	BGJ0172	10/04/23	10/06/23	EPA 6020B	
Barium	128	0.400	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/28/23 12:57**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	85.2		%	1	BGJ0174	10/04/23	10/05/23	Calculation	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: PDC - Mershon

Project Number: [none]
 Project Manager: Ben Baugh

Reported:
 10/09/23 10:38

BKG08@13-15
2309578-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **09/28/23 13:03**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.85	0.200	mg/kg dry	1	BGJ0172	10/04/23	10/06/23	EPA 6020B	
Barium	80.2	0.400	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/28/23 13:03**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	81.4		%	1	BGJ0174	10/04/23	10/05/23	Calculation	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: PDC - Mershon

Project Number: [none]
 Project Manager: Ben Baugh

Reported:
 10/09/23 10:38

BKG09@5-7
2309578-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **09/28/23 13:12**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.79	0.200	mg/kg dry	1	BGJ0172	10/04/23	10/06/23	EPA 6020B	
Barium	69.1	0.400	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/28/23 13:12**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	94.8		%	1	BGJ0174	10/04/23	10/05/23	Calculation	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: PDC - Mershon

Project Number: [none]
 Project Manager: Ben Baugh

Reported:
 10/09/23 10:38

BKG09@10-12
2309578-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **09/28/23 13:16**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.09	0.200	mg/kg dry	1	BGJ0172	10/04/23	10/06/23	EPA 6020B	
Barium	24.9	0.400	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/28/23 13:16**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	95.4		%	1	BGJ0174	10/04/23	10/05/23	Calculation	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: PDC - Mershon

Project Number: [none]
 Project Manager: Ben Baugh

Reported:
 10/09/23 10:38

BKG09@13-15
2309578-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **09/28/23 13:18**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.32	0.200	mg/kg dry	1	BGJ0172	10/04/23	10/06/23	EPA 6020B	
Barium	73.6	0.400	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/28/23 13:18**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	84.3		%	1	BGJ0174	10/04/23	10/05/23	Calculation	

Summit Scientific

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Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: PDC - Mershon

Project Number: [none]
 Project Manager: Ben Baugh

Reported:
 10/09/23 10:38

BKG10@5-7
2309578-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **09/28/23 13:24**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.38	0.200	mg/kg dry	1	BGJ0172	10/04/23	10/06/23	EPA 6020B	
Barium	69.3	0.400	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/28/23 13:24**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	93.1		%	1	BGJ0174	10/04/23	10/05/23	Calculation	

Summit Scientific

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Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: PDC - Mershon

Project Number: [none]
 Project Manager: Ben Baugh

Reported:
 10/09/23 10:38

BKG10@10-12
2309578-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **09/28/23 13:28**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.83	0.200	mg/kg dry	1	BGJ0172	10/04/23	10/06/23	EPA 6020B	
Barium	29.7	0.400	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/28/23 13:28**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	98.5		%	1	BGJ0174	10/04/23	10/05/23	Calculation	

Summit Scientific

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Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: PDC - Mershon

Project Number: [none]
 Project Manager: Ben Baugh

Reported:
 10/09/23 10:38

BKG10@13-15
2309578-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **09/28/23 13:32**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.41	0.200	mg/kg dry	1	BGJ0199	10/05/23	10/08/23	EPA 6020B	
Barium	79.1	0.400	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/28/23 13:32**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	86.3		%	1	BGJ0174	10/04/23	10/05/23	Calculation	

Summit Scientific

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Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: PDC - Mershon

Project Number: [none]
 Project Manager: Ben Baugh

Reported:
 10/09/23 10:38

BKG11@5-7
2309578-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **09/28/23 13:37**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.34	0.200	mg/kg dry	1	BGJ0199	10/05/23	10/08/23	EPA 6020B	
Barium	81.7	0.400	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/28/23 13:37**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	93.9		%	1	BGJ0174	10/04/23	10/05/23	Calculation	

Summit Scientific

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Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: PDC - Mershon

Project Number: [none]
 Project Manager: Ben Baugh

Reported:
 10/09/23 10:38

BKG11@10-12
2309578-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **09/28/23 13:39**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.51	0.200	mg/kg dry	1	BGJ0199	10/05/23	10/08/23	EPA 6020B	
Barium	77.0	0.400	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/28/23 13:39**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	86.3		%	1	BGJ0174	10/04/23	10/05/23	Calculation	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: PDC - Mershon

Project Number: [none]
 Project Manager: Ben Baugh

Reported:
 10/09/23 10:38

BKG11@13-15
2309578-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **09/28/23 13:43**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.03	0.200	mg/kg dry	1	BGJ0199	10/05/23	10/08/23	EPA 6020B	
Barium	122	0.400	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/28/23 13:43**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	85.2		%	1	BGJ0174	10/04/23	10/05/23	Calculation	

Summit Scientific

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Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: PDC - Mershon

Project Number: [none]
 Project Manager: Ben Baugh

Reported:
 10/09/23 10:38

BKG02@5-7
2309578-16 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **09/28/23 11:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	5.90	0.200	mg/kg dry	1	BGJ0199	10/05/23	10/08/23	EPA 6020B	
Barium	96.9	0.400	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/28/23 11:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	91.2		%	1	BGJ0174	10/04/23	10/05/23	Calculation	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: PDC - Mershon

Project Number: [none]
 Project Manager: Ben Baugh

Reported:
 10/09/23 10:38

BKG02@10-12
2309578-17 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **09/28/23 11:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.95	0.200	mg/kg dry	1	BGJ0199	10/05/23	10/08/23	EPA 6020B	
Barium	76.7	0.400	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/28/23 11:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	86.2		%	1	BGJ0174	10/04/23	10/05/23	Calculation	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: PDC - Mershon

Project Number: [none]
 Project Manager: Ben Baugh

Reported:
 10/09/23 10:38

BKG02@13-15
2309578-18 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **09/28/23 11:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	9.67	0.200	mg/kg dry	1	BGJ0199	10/05/23	10/08/23	EPA 6020B	
Barium	275	0.400	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/28/23 11:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	79.3		%	1	BGJ0174	10/04/23	10/05/23	Calculation	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: PDC - Mershon

Project Number: [none]
 Project Manager: Ben Baugh

Reported:
 10/09/23 10:38

BKG03@5-7
2309578-19 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **09/28/23 11:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.62	0.200	mg/kg dry	1	BGJ0199	10/05/23	10/08/23	EPA 6020B	
Barium	68.6	0.400	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/28/23 11:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	94.8		%	1	BGJ0174	10/04/23	10/05/23	Calculation	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: PDC - Mershon

Project Number: [none]
 Project Manager: Ben Baugh

Reported:
 10/09/23 10:38

BKG03@10-12
2309578-20 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **09/28/23 11:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	5.83	0.200	mg/kg dry	1	BGJ0199	10/05/23	10/08/23	EPA 6020B	
Barium	125	0.400	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/28/23 11:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	81.9		%	1	BGJ0174	10/04/23	10/05/23	Calculation	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: PDC - Mershon

Project Number: [none]
 Project Manager: Ben Baugh

Reported:
 10/09/23 10:38

BKG03@13-15
2309578-21 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **09/28/23 11:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.71	0.200	mg/kg dry	1	BGJ0199	10/05/23	10/08/23	EPA 6020B	
Barium	33.3	0.400	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/28/23 11:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	85.9		%	1	BGJ0174	10/04/23	10/05/23	Calculation	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: PDC - Mershon

Project Number: [none]
 Project Manager: Ben Baugh

Reported:
 10/09/23 10:38

BKG04@5-7
2309578-22 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **09/28/23 12:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	6.03	0.200	mg/kg dry	1	BGJ0199	10/05/23	10/08/23	EPA 6020B	
Barium	105	0.400	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/28/23 12:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	84.9		%	1	BGJ0174	10/04/23	10/05/23	Calculation	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: PDC - Mershon

Project Number: [none]
 Project Manager: Ben Baugh

Reported:
 10/09/23 10:38

BKG04@10-12
2309578-23 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **09/28/23 12:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.95	0.200	mg/kg dry	1	BGJ0199	10/05/23	10/08/23	EPA 6020B	
Barium	47.6	0.400	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/28/23 12:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	84.4		%	1	BGJ0174	10/04/23	10/05/23	Calculation	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: PDC - Mershon
 Project Number: [none]
 Project Manager: Ben Baugh

Reported:
 10/09/23 10:38

BKG04@13-15
2309578-24 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **09/28/23 12:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.15	0.200	mg/kg dry	1	BGJ0199	10/05/23	10/08/23	EPA 6020B	
Barium	128	0.400	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/28/23 12:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	82.8		%	1	BGJ0174	10/04/23	10/05/23	Calculation	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: PDC - Mershon

Project Number: [none]
 Project Manager: Ben Baugh

Reported:
 10/09/23 10:38

BKG05@5-7
2309578-25 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **09/28/23 12:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.85	0.200	mg/kg dry	1	BGJ0199	10/05/23	10/08/23	EPA 6020B	
Barium	51.5	0.400	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/28/23 12:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	93.7		%	1	BGJ0174	10/04/23	10/05/23	Calculation	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: PDC - Mershon

Project Number: [none]
 Project Manager: Ben Baugh

Reported:
 10/09/23 10:38

BKG05@10-12
2309578-26 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **09/28/23 12:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.46	0.200	mg/kg dry	1	BGJ0199	10/05/23	10/08/23	EPA 6020B	
Barium	174	0.400	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/28/23 12:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	81.8		%	1	BGJ0174	10/04/23	10/05/23	Calculation	

Summit Scientific

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Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: PDC - Mershon

Project Number: [none]
 Project Manager: Ben Baugh

Reported:
 10/09/23 10:38

BKG05@13-15
2309578-27 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **09/28/23 12:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	6.56	0.200	mg/kg dry	1	BGJ0199	10/05/23	10/08/23	EPA 6020B	
Barium	197	0.400	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/28/23 12:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	84.8		%	1	BGJ0174	10/04/23	10/05/23	Calculation	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: PDC - Mershon

Project Number: [none]
 Project Manager: Ben Baugh

Reported:
 10/09/23 10:38

BKG06@5-7
2309578-28 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **09/28/23 12:28**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.13	0.200	mg/kg dry	1	BGJ0199	10/05/23	10/08/23	EPA 6020B	
Barium	54.4	0.400	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/28/23 12:28**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	87.2		%	1	BGJ0174	10/04/23	10/05/23	Calculation	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: PDC - Mershon

Project Number: [none]
 Project Manager: Ben Baugh

Reported:
 10/09/23 10:38

BKG06@10-12
2309578-29 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **09/28/23 12:33**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.32	0.200	mg/kg dry	1	BGJ0199	10/05/23	10/08/23	EPA 6020B	
Barium	74.4	0.400	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/28/23 12:33**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	85.4		%	1	BGJ0174	10/04/23	10/05/23	Calculation	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: PDC - Mershon

Project Number: [none]
 Project Manager: Ben Baugh

Reported:
 10/09/23 10:38

BKG06@13-15
2309578-30 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **09/28/23 12:37**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.19	0.200	mg/kg dry	1	BGJ0199	10/05/23	10/08/23	EPA 6020B	
Barium	29.4	0.400	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/28/23 12:37**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	87.1		%	1	BGJ0174	10/04/23	10/05/23	Calculation	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: PDC - Mershon

Project Number: [none]
 Project Manager: Ben Baugh

Reported:
 10/09/23 10:38

Total Metals by EPA 6020B - Quality Control

Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch BGJ0172 - EPA 3050B

Blank (BGJ0172-BLK1) Prepared: 10/04/23 Analyzed: 10/06/23

Arsenic	ND	0.200	mg/kg wet								
Barium	ND	0.400	"								

LCS (BGJ0172-BS1) Prepared: 10/04/23 Analyzed: 10/06/23

Arsenic	38.9	0.200	mg/kg wet	40.0		97.4	80-120				
Barium	45.1	0.400	"	40.0		113	80-120				

Duplicate (BGJ0172-DUP1) Source: 2309554-01 Prepared: 10/04/23 Analyzed: 10/06/23

Arsenic	2.55	0.200	mg/kg dry		3.63			34.7	20		QR-04
Barium	87.9	0.400	"		109			21.5	20		QR-04

Matrix Spike (BGJ0172-MS1) Source: 2309554-01 Prepared: 10/04/23 Analyzed: 10/06/23

Arsenic	46.4	0.200	mg/kg dry	46.1	3.63	92.9	75-125				
Barium	158	0.400	"	46.1	109	105	75-125				

Matrix Spike Dup (BGJ0172-MSD1) Source: 2309554-01 Prepared: 10/04/23 Analyzed: 10/06/23

Arsenic	46.7	0.200	mg/kg dry	46.1	3.63	93.4	75-125	0.511	25		
Barium	155	0.400	"	46.1	109	99.1	75-125	1.86	25		

Batch BGJ0199 - EPA 3050B

Blank (BGJ0199-BLK1) Prepared: 10/05/23 Analyzed: 10/08/23

Arsenic	ND	0.200	mg/kg wet								
Barium	ND	0.400	"								

LCS (BGJ0199-BS1) Prepared: 10/05/23 Analyzed: 10/08/23

Arsenic	38.7	0.200	mg/kg wet	40.0		96.7	80-120				
Barium	43.0	0.400	"	40.0		107	80-120				

Summit Scientific

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Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: PDC - Mershon

Project Number: [none]
 Project Manager: Ben Baugh

Reported:
 10/09/23 10:38

Total Metals by EPA 6020B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

Batch BGJ0199 - EPA 3050B

Duplicate (BGJ0199-DUP1)		Source: 2309578-12			Prepared: 10/05/23 Analyzed: 10/08/23						
Arsenic	4.33	0.200	mg/kg dry	46.4	4.41				1.86	20	
Barium	72.2	0.400	"	46.4	79.1				9.13	20	
Matrix Spike (BGJ0199-MS1)		Source: 2309578-12			Prepared: 10/05/23 Analyzed: 10/08/23						
Arsenic	58.5	0.200	mg/kg dry	46.4	4.41	117	75-125				
Barium	188	0.400	"	46.4	79.1	235	75-125				QM-07
Matrix Spike Dup (BGJ0199-MSD1)		Source: 2309578-12			Prepared: 10/05/23 Analyzed: 10/08/23						
Arsenic	54.1	0.200	mg/kg dry	46.4	4.41	107	75-125	7.75		25	
Barium	166	0.400	"	46.4	79.1	188	75-125	12.3		25	QM-07

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: PDC - Mershon

Project Number: [none]
 Project Manager: Ben Baugh

Reported:
 10/09/23 10:38

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch BGJ0174 - General Preparation

Duplicate (BGJ0174-DUP1)

Source: 2309578-01

Prepared: 10/04/23 Analyzed: 10/05/23

% Solids	86.1		%		85.6			0.557		20	
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Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: PDC - Mershon

Project Number: [none]
Project Manager: Ben Baugh

Reported:
10/09/23 10:38

Notes and Definitions

- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- 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
- RPD Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 17, 2023

Ben Baugh
Entrada Consulting Group
240 Mesa Avenue
Grand Junction., CO 81501

RE: PDC - Kodak PW

Work Order #2304473

Enclosed are the results of analyses for samples received by Summit Scientific on 04/21/23 09:56. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury
President



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: PDC - Kodak PW

Project Number: [none]
Project Manager: Ben Baugh

Reported:
10/17/23 12:45

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PW01	2304473-01	Water	04/21/23 08:15	04/21/23 09:56

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SUMMIT SCIENTIFIC

4653 Table Mountain Drive
Golden, CO 80403
303-277-9310

Lab ID	Page 1 of 1
2304473	

Send Data To:		Send Invoice To:	
Client: <u>Entrada Consulting Group</u>	Project Manager: <u>Ben Baugh</u>	Company: <u>PDC</u>	
Address:	E-Mail: <u>bbaugh@entradainc.com, PDC EHS</u>	Project Name/Location:	
City/State/Zip:		AFE#:	
Phone: <u>917-337-5127</u>	Project Name: <u>Kodak PW</u>	PO/Billing Codes:	
Sampler Name: <u>Nick Yourd</u>	Project Number:	Contact:	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested				Special Instructions		
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Arsenic	Barium	Selenium				
1	PW01	4/21/23	0815	1		X			X					X	X	X			Total Recoverable
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by: 	Date/Time: <u>0957 4/21/23</u>	Received by: 	Date/Time: <u>4/21/23 9:56</u>	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
				Standard	<input checked="" type="checkbox"/> Field Turb.	
Temperature Upon Receipt: <u>71.2</u>	Corrected Temperature _____	IR gun #: <u>2</u>	HNO3 lot #:			

S₂

S2 Work Order# 2304473

Sample Receipt Checklist

Client: Entrada Client Project ID: PDC - Kodak PW

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: _____

Matrix (Check all that apply) Air Soil/Solid Water Other

Temp (°C)

Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cooling not req
If custody seals are present, are they intact? ⁽¹⁾	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HNO ₃
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.

MM
Custodian Printed Name

4/21/23 9:59
Date/Time



Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: PDC - Kodak PW

Project Number: [none]
 Project Manager: Ben Baugh

Reported:
 10/17/23 12:45

PW01
2304473-01 (Water)

Summit Scientific

Total Recoverable Metals by EPA Method 200.8

Date Sampled: **04/21/23 08:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	1.89	0.600		ug/l	1	BGD0735	04/26/23	04/26/23	EPA 200.8	
Barium	12600	1.00		"	"	"	"	"	"	
Cadmium	0.350	0.0500		"	"	"	"	"	"	
Copper	45.1	1.00		"	"	"	"	"	"	
Lead	1.90	0.500		"	"	"	"	"	"	
Nickel	17.7	1.00		"	"	"	"	"	"	
Selenium	ND	1.00		"	"	"	"	"	"	
Silver	0.0950	0.0500		"	"	"	"	"	"	
Zinc	1450	1.00		"	"	"	"	"	"	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: PDC - Kodak PW

Project Number: [none]
 Project Manager: Ben Baugh

Reported:
 10/17/23 12:45

Total Recoverable Metals by EPA Method 200.8 - Quality Control

Summit Scientific

Analyte	Result	Reporting		Spike Level	Source Result	%REC		RPD		Notes
		Limit	Units			%REC	Limits	RPD	Limit	

Batch BGD0735 - EPA 200.8

Blank (BGD0735-BLK1)

Prepared & Analyzed: 04/26/23

Arsenic	ND	0.600	ug/l							
Barium	ND	1.00	"							
Cadmium	ND	0.0500	"							
Copper	ND	1.00	"							
Lead	ND	0.500	"							
Nickel	ND	1.00	"							
Selenium	ND	1.00	"							
Silver	ND	0.0500	"							
Zinc	ND	1.00	"							

LCS (BGD0735-BS1)

Prepared & Analyzed: 04/26/23

Arsenic	436	0.600	ug/l	500	87.1	85-115				
Barium	438	1.00	"	500	87.5	85-115				
Cadmium	22.3	0.0500	"	25.0	89.2	85-115				
Copper	442	1.00	"	500	88.4	85-115				
Lead	234	0.500	"	250	93.6	85-115				
Nickel	442	1.00	"	500	88.4	85-115				
Selenium	47.6	1.00	"	50.0	95.2	85-115				
Silver	22.0	0.0500	"	25.0	88.0	85-115				
Zinc	436	1.00	"	500	87.2	85-115				

Duplicate (BGD0735-DUP1)

Source: 2304445-01

Prepared & Analyzed: 04/26/23

Arsenic	1.04	0.600	ug/l		1.16		10.9	20		
Barium	122	1.00	"		123		0.961	20		
Cadmium	3.15	0.0500	"		3.36		6.45	20		
Copper	3.02	1.00	"		3.50		14.7	20		
Lead	4.15	0.500	"		4.24		2.15	20		
Nickel	3.40	1.00	"		3.76		10.2	20		
Selenium	2.36	1.00	"		2.28		3.24	20		
Silver	0.0550	0.0500	"		0.0550		0.00	20		
Zinc	56.8	1.00	"		61.9		8.51	20		

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: PDC - Kodak PW

Project Number: [none]
 Project Manager: Ben Baugh

Reported:
 10/17/23 12:45

Total Recoverable Metals by EPA Method 200.8 - Quality Control

Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch BGD0735 - EPA 200.8

Matrix Spike (BGD0735-MS1)

Source: 2304445-01

Prepared & Analyzed: 04/26/23

Arsenic	489	0.600	ug/l	500	1.16	97.6	70-130			
Barium	559	1.00	"	500	123	87.1	70-130			
Cadmium	25.7	0.0500	"	25.0	3.36	89.2	70-130			
Copper	454	1.00	"	500	3.50	90.2	70-130			
Lead	230	0.500	"	250	4.24	90.4	70-130			
Nickel	456	1.00	"	500	3.76	90.5	70-130			
Selenium	51.9	1.00	"	50.0	2.28	99.2	70-130			
Silver	22.2	0.0500	"	25.0	0.0550	88.5	70-130			
Zinc	517	1.00	"	500	61.9	91.1	70-130			

Matrix Spike Dup (BGD0735-MSD1)

Source: 2304445-01

Prepared & Analyzed: 04/26/23

Arsenic	476	0.600	ug/l	500	1.16	94.9	70-130	2.87	25
Barium	584	1.00	"	500	123	92.1	70-130	4.39	25
Cadmium	26.8	0.0500	"	25.0	3.36	93.9	70-130	4.50	25
Copper	440	1.00	"	500	3.50	87.4	70-130	3.09	25
Lead	246	0.500	"	250	4.24	96.8	70-130	6.81	25
Nickel	441	1.00	"	500	3.76	87.4	70-130	3.44	25
Selenium	53.8	1.00	"	50.0	2.28	103	70-130	3.70	25
Silver	23.4	0.0500	"	25.0	0.0550	93.3	70-130	5.33	25
Zinc	503	1.00	"	500	61.9	88.3	70-130	2.75	25

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: PDC - Kodak PW

Project Number: [none]
Project Manager: Ben Baugh

Reported:
10/17/23 12:45

Notes and Definitions

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
RPD Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

August 31, 2023

Ben Baugh
Entrada Consulting Group
240 Mesa Avenue
Grand Junction., CO 81501

RE: Kodak PW

Work Order #2306189

Enclosed are the results of analyses for samples received by Summit Scientific on 06/09/23 10:11. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury
President



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Kodak PW
Project Number: [none]
Project Manager: Ben Baugh

Reported:
08/31/23 13:49

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
25-241HC	2306189-01	Water	06/08/23 08:30	06/09/23 10:11

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SUMMIT SCIENTIFIC

4653 Table Mountain Drive
Golden, CO 80403
303-277-9310

Lab ID	Page 1 of 1
2306189	

Client: <u>Entrada Consulting Group</u>	Project Manager: <u>Ben Brough</u>	Company: <u>PDC</u>
Address:	E-Mail: <u>bbrough@entradainc.com</u>	Project Name/Location:
City/State/Zip:	<u>PDC distribution</u>	AFE#:
Phone: <u>412-337-5122</u>	Project Name: <u>Kodak PW</u>	PO/Billing Codes:
Sampler Name: <u>Nick Yourd</u>	Project Number:	Contact:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested				Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Argenic	Barium	Selenium	Cadmium		
1	25-241HC	6/8/23	0830	1	X				X					X	X	X	X	Total Recoverable
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		

Relinquished by: <u>[Signature]</u>	Date/Time: <u>1009/6/8</u>	Received by: <u>John Ward</u>	Date/Time: <u>6/9/23 10:11</u>	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Temperature Upon Receipt: <u>17.3</u>	Corrected Temperature	IR gun #: <u>2</u>	HNO3 lot #:	Standard	<input checked="" type="checkbox"/>	Field Turb.

S₂

Sample Receipt Checklist

S2 Work Order# 2306189

Client: Entergy RDC Client Project ID: Kodak PW

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: _____

Matrix (Check all that apply) Air Soil/Solid Water Other

Temp (°C) 17.3 Thermometer # 2

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on site
If custody seals are present, are they intact? ⁽¹⁾	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	COC says HCl preserved, Sample is HNO ₃
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HNO ₃
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	< 2
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

Vinny Ward

Custodian Printed Name

6/9/23 10:11

Date/Time



Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: Kodak PW
 Project Number: [none]
 Project Manager: Ben Baugh

Reported:
 08/31/23 13:49

25-241HC
2306189-01 (Water)

Summit Scientific

Total Recoverable Metals by EPA Method 200.8

Date Sampled: **06/08/23 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.17	0.600	ug/l	1	BGF0414	06/12/23	06/14/23	EPA 200.8	
Barium	6990	1.00	"	"	"	"	"	"	
Cadmium	0.0800	0.0500	"	"	"	"	"	"	
Copper	2.14	1.00	"	"	"	"	"	"	
Lead	ND	0.500	"	"	"	"	"	"	
Nickel	6.20	1.00	"	"	"	"	"	"	
Selenium	2.38	1.00	"	"	"	"	"	"	
Silver	0.100	0.0500	"	"	"	"	"	"	
Zinc	200	1.00	"	"	"	"	"	"	

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Kodak PW
Project Number: [none]
Project Manager: Ben Baugh

Reported:
08/31/23 13:49

Total Recoverable Metals by EPA Method 200.8 - Quality Control

Summit Scientific

Analyte	Result	Reporting		Spike Level	Source Result	%REC		RPD		Notes
		Limit	Units			%REC	Limits	RPD	Limit	

Batch BGF0414 - EPA 200.8

Blank (BGF0414-BLK1)

Prepared: 06/12/23 Analyzed: 06/14/23

Arsenic	ND	0.600	ug/l							
Barium	ND	1.00	"							
Cadmium	ND	0.0500	"							
Copper	ND	1.00	"							
Lead	ND	0.500	"							
Nickel	ND	1.00	"							
Selenium	ND	1.00	"							
Silver	ND	0.0500	"							
Zinc	ND	1.00	"							

LCS (BGF0414-BS1)

Prepared: 06/12/23 Analyzed: 06/14/23

Arsenic	467	0.600	ug/l	500	93.4	85-115				
Barium	482	1.00	"	500	96.4	85-115				
Cadmium	25.3	0.0500	"	25.0	101	85-115				
Copper	490	1.00	"	500	97.9	85-115				
Lead	241	0.500	"	250	96.6	85-115				
Nickel	493	1.00	"	500	98.6	85-115				
Selenium	52.8	1.00	"	50.0	106	85-115				
Silver	25.1	0.0500	"	25.0	100	85-115				
Zinc	472	1.00	"	500	94.3	85-115				

Duplicate (BGF0414-DUP1)

Source: 2306112-01

Prepared: 06/12/23 Analyzed: 06/14/23

Arsenic	4.05	0.600	ug/l		3.54		13.6	20		
Barium	86.6	1.00	"		85.4		1.35	20		
Cadmium	0.0600	0.0500	"		0.0500		18.2	20		
Copper	1.35	1.00	"		3.34		84.9	20		QR-01
Lead	0.905	0.500	"		1.06		15.3	20		
Nickel	0.945	1.00	"		2.37		86.0	20		QR-01
Selenium	3.96	1.00	"		3.92		1.02	20		
Silver	ND	0.0500	"		ND			20		
Zinc	6.22	1.00	"		7.44		17.9	20		

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: Kodak PW
 Project Number: [none]
 Project Manager: Ben Baugh

Reported:
 08/31/23 13:49

Total Recoverable Metals by EPA Method 200.8 - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch BGF0414 - EPA 200.8

Matrix Spike (BGF0414-MS1)

Source: 2306112-01

Prepared: 06/12/23 Analyzed: 06/14/23

Arsenic	404	0.600	ug/l	500	3.54	80.1	70-130		
Barium	451	1.00	"	500	85.4	73.0	70-130		
Cadmium	20.0	0.0500	"	25.0	0.0500	79.7	70-130		
Copper	388	1.00	"	500	3.34	77.0	70-130		
Lead	191	0.500	"	250	1.06	76.0	70-130		
Nickel	389	1.00	"	500	2.37	77.3	70-130		
Selenium	49.4	1.00	"	50.0	3.92	90.9	70-130		
Silver	19.5	0.0500	"	25.0	ND	78.1	70-130		
Zinc	381	1.00	"	500	7.44	74.7	70-130		

Matrix Spike Dup (BGF0414-MSD1)

Source: 2306112-01

Prepared: 06/12/23 Analyzed: 06/14/23

Arsenic	500	0.600	ug/l	500	3.54	99.2	70-130	21.1	25
Barium	565	1.00	"	500	85.4	96.0	70-130	22.6	25
Cadmium	25.3	0.0500	"	25.0	0.0500	101	70-130	23.5	25
Copper	491	1.00	"	500	3.34	97.5	70-130	23.4	25
Lead	241	0.500	"	250	1.06	95.9	70-130	23.1	25
Nickel	491	1.00	"	500	2.37	97.7	70-130	23.2	25
Selenium	61.9	1.00	"	50.0	3.92	116	70-130	22.6	25
Silver	24.8	0.0500	"	25.0	ND	99.3	70-130	23.9	25
Zinc	481	1.00	"	500	7.44	94.8	70-130	23.3	25

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Kodak PW
Project Number: [none]
Project Manager: Ben Baugh

Reported:
08/31/23 13:49

Notes and Definitions

QR-01 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.

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

RPD Relative Percent Difference